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#### To: Energy Safety Data Guidelines Stakeholders

**Date:** 11/19/2024

#### Re: Draft Data Guidelines v4.0

Energy Safety Data Guidelines Stakeholders,

Pursuant to Government Code section 15475.6, enclosed are the Energy Safety Draft Data Guidelines v4.0.

In addition to the Draft Data Guidelines v4.0 document, the following files are enclosed:

- Energy Safety Wildfire Mitigation Data DRAFT Quarterly Template Workbook.xlsx
- Energy Safety Wildfire Mitigation Data DRAFT Annual-EOY Template Workbook.xlsx
- Energy Safety Wildfire Mitigation Data DRAFT Annual-WMP Template Workbook\_vY1.xlsx
- Energy Safety Wildfire Mitigation Data Tables v4.0 Templates Changelog.xlsx
- Energy Safety GIS Data v4.0 Changelog.xlsx

Overview of notable changes:

- Appendix C WMP Initiatives List revised to align with Draft WMP Guidelines Appendix A
- Submission cadence for Tabular Wildfire Mitigation Data is broken out from quarterlyonly into quarterly, annual-EOY, and annual-WMP, depending on which cadence is most appropriate for the data being reported.
  - New Draft Template Workbooks support this change, one workbook for each cadence.
- "Energy Safety-managed" audit columns removed from Wildfire Mitigation Data Table
   1.
- InitiativeTarget, QuarterlyProgress, CumulativeProgress, and ChangeOrder fields have been removed from GIS data Initiative features and are now reported only in the Tabular Wildfire Mitigation Data.
- General language updates have been made throughout for clarity and consistency. These are reflected in the published redline.

• General structure and formatting changes have been made throughout the Wildfire Mitigation Data Tables Template Workbooks for purposes of data management, clarity, and consistency. These are reflected in the published changelog.

Overview of other minor changes:

• General non-substantive corrections, such as formatting and typo corrections, have been made throughout. These are reflected in the published redline.

Stakeholders may submit comments addressing the Draft Data Guidelines v4.0 through December 18, 2024<sup>1</sup>. Comments must be submitted to Energy Safety's e-filing system in the Data Guidelines docket (docket Data Guidelines), and titled, "[Stakeholder Name] Comments on Draft Data Guidelines v4.0." Comments are limited to five (5) pages in length and must focus on factual, legal, or technical aspects of the Data Guidelines. Comments not meeting all submission requirements may not be considered.

#### **Adoption Meeting**

Pursuant to Government Code section 15475.6, Energy Safety will hold a public meeting to receive public and stakeholder feedback on the Data Guidelines, prior to their adoption. Energy Safety will hold this public meeting in December and will notice the meeting at least 10-days in advance.

Those who are not already subscribed to Energy Safety's service lists and wish to receive service of the Draft Data Guidelines v4.0 and comment may enroll by visiting <u>https://energysafety.ca.gov/events-and-meetings/how-to-participate-in-public-events/</u>.

Sincerely,

Shafi Mohammed

Shafi Mohammed Chief Data Officer, Data Analytics Division Office of Energy Infrastructure Safety

<sup>&</sup>lt;sup>1</sup> Government Code § 15475.6



# OFFICE OF ENERGY INFRASTRUCTURE SAFETY DRAFT DATA GUIDELINES

Version 4.0

NOVEMBER 19, 2024



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# **1. INTRODUCTION**

This document is the Office of Energy Infrastructure Safety's (Energy Safety) Data Guidelines ("Data Guidelines" or the "Guidelines") for electrical corporations submitting wildfire mitigation data reports. Wildfire mitigation data reports consist of geographic information system (GIS) and tabular wildfire mitigation data. These data reports support Energy Safety in its oversight and enforcement of electrical corporations' compliance with wildfire safety, including electrical corporation Wildfire Mitigation Plans (WMPs). These Data Guidelines set forth the required standards, schemas, and schedules for the submission of wildfire mitigation data reports and are published pursuant to Government Code section 15475.6.

The data requirements described in this document are effective as of January 1, 2025.

Energy Safety routinely reviews and refines its data requirements in executing its mission of advancing long-term utility infrastructure safety through a data-driven approach. These Data Guidelines will continue to evolve as data quality and capabilities grow.

#### **1.1 Version History**

Previous versions of the Energy Safety Data Guidelines:

- Energy Safety GIS Data Guidelines v3.2
- Energy Safety GIS Data Guidelines v3.1
- Energy Safety GIS Data Guidelines v3.0

Prior to version 3.0, GIS and tabular wildfire mitigation data submission requirements and standards were published separately. Prior versions of Energy Safety's Data Guidelines and Data Standards can be found on the Energy Safety website at <a href="https://energysafety.ca.gov/who-we-are/department-organization/electrical-infrastructure-directorate/data-analytics-division/">https://energysafety.ca.gov/who-we-are/department-organization/electrical-infrastructure-directorate/data-analytics-division/.</a>

#### 1.1.1 GIS Version History

Previous versions of the GIS Data Reporting Standard are as follows:

- Energy Safety GIS Data Reporting Standard Guidelines 2.2.1
- Energy Safety GIS Data Reporting Standard v2.2
- Energy Safety GIS Data Reporting Standard v2.1
- Energy Safety GIS Data Reporting Standard v2.0
- Energy Safety GIS Data Reporting Standard v1.0

#### 1.1.2 Tabular Wildfire Mitigation Data Version History

Previous tabular wildfire mitigation data requirements were provided under the following publications:

- Final 2022 Wildfire Mitigation Plan Update Guidelines
- <u>2021 Wildfire Mitigation Plans Guidance Documents</u>
- <u>RES WSD-002 Final Guidance Resolution on 2020 Wildfire Mitigation Plans</u>
- Guidance Decision on 2019 Wildfire Mitigation Plans

These publications can be found under each respective plan year on the Energy Safety website at <u>https://energysafety.ca.gov/what-we-do/electrical-infrastructure-safety/wildfire-mitigation-plans/</u>.



# 2. SUBMISSION REQUIREMENTS



# **2.1 Submission Schedule**

The electrical corporation must submit GIS data to Energy Safety on a quarterly basis as detailed in Table 1 below. The electrical corporation must submit tabular wildfire mitigation data (i.e., quarterly, Annual-EOY, and Annual-WMP) to Energy Safety on a quarterly and annual basis as detailed in Tables 1 to 3 below. If a submission due date falls on a weekend or a holiday, then the electrical corporation must submit the data on the first business day after the due date.

Reporting Period	Submission Date: GIS Data & Quarterly Tabular Wildfire Mitigation Data
Q1 Data	May 1
Q2 Data	August 1
Q3 Data	November 1
Q4 Data	February 1

Following the completion of a calendar quarter, the electrical corporation must submit the required quarterly data on or before the first day of the following month. For example, submissions for first quarter data will be due annually on May 1.

Table 2. Annual-End of Year (EOY) Data Submission Schedule

Reporting	Submission Date: Annual-EOY Tabular
Period	Wildfire Mitigation Data
EOY Data	February 1

The electrical corporation must submit the annual-EOY data concurrently with the Q4 data submission.

Table 3. Annual-WMP Data Submission Schedule

Reporting Category	Submission Date: Annual-WMP Tabular Wildfire Mitigation Data
WMP targets,	3 days prior to Base WMP or WMP Update
projections,	submission
and risk data	

Table 1. Quarterly Data Submission Schedule



The electrical corporation must submit the annual-WMP data 30 days prior to the submission of the corresponding Base WMP or a WMP Update.

The GIS data contains some feature classes that may not need to be submitted as frequently as others. Specifically, the electrical corporation are not required to submit spatial data that have not changed from one quarter to the next quarter, as long as there have been no changes since the last submission to the data required pursuant to Section 3 of the Data Guidelines. For example, if a specific asset feature class stays the same, meaning no records were added or removed and no attribute data changed for any of the records since the feature was last submitted, submission of the unchanged feature class would not be necessary. Features not submitted for this reason would be indicated as, "No change since last submission" in the Spatial Data Status Report, referred to hereafter as "status report."

Similarly, there may be certain feature classes that do not apply to a given submission period. For example, features pertaining to PSPS events would not apply to an electrical corporation that did not have any PSPS events in the reporting quarter. Submission of these features would not be necessary, and they would be indicated as, "Not relevant for the reporting quarter," in the status report.

# **2.2 Submission Schema Version**

The electrical corporation's data submissions pursuant to Section 2.1 must be structured according to the schema version that is in effect at the time of submission. Revisions to previously submitted data may be structured according to the schema in effect when the original data was submitted.

Data schema specific requirements are in sections 3.6 and 4.3 of these guidelines. The electrical corporation must also use the geodatabase template and Wildfire Mitigation Data Tables template workbooks provided by Energy Safety in conjunction with the requirements detailed in section 4 to implement the required Tabular Wildfire Mitigation Data schema. The templates are incorporated herein by reference in Appendix D and are available on the Energy Safety website.

# 2.3 Submission Instructions, Locations, and File Naming

The electrical corporation subject to these Guidelines must submit required data to the locations<sup>1</sup> and according to the file naming conventions specified below.

Data Set	Submission Location	File Name
GIS Geodatabase	Assigned SharePoint Location	[Electrical Corporation Abbreviation]_YYYY_Q#.gdb
Photos submitted with spatial data	Assigned SharePoint Location	[Electrical Corporation Abbreviation]_YYYY_Q#_Photos#.zip
Spatial Data Status Report	E-Filing Docket YYYY- QDR	[Electrical Corporation Abbreviation]_YYYY_Q#_SpatialDataStatusReport.xlsx
Confidentiality Declaration	E-Filing Docket YYYY- QDR	[Electrical Corporation Abbreviation] _YYYY_Q#_ConfidentialityDeclaration.[File Ext]
Tabular Wildfire Mitigation Quarterly Data	E-Filing Docket [YYYY- QDR]	[Electrical Corporation Abbreviation]_YYYY_Q#_R#.xlsx
Tabular Wildfire Mitigation Annual-EOY Data	E-Filing Docket [YYYY- QDR]	[Electrical Corporation Abbreviation]_YYYY_EOY_R#.xlsx
Tabular Wildfire Mitigation Annual-WMP Data	E-Filing Docket [YYYY- QDR]	[Electrical Corporation Abbreviation]_YYYY- WMP_R#.xlsx

Table 4. Data Submission Locations & Naming

Where Table 4, above, specifies "YYYY" in the file name structure for Tabular Wildfire Mitigation Annual-WMP Data submissions, the year must match the related WMP plan year. For an Annual-WMP data submission related to a Base WMP, this will be the first year in the related three-year WMP cycle. For an Annual-WMP data submission related to a WMP Update, this will be the update year. For example, the file name for an Annual-WMP data submission related to a 2026-2028 Base WMP would reference 2026. The file name for an Annual-WMP data submission relating to a 2027 WMP Update would reference 2027.

For the file name structure of all other data set types, "YYYY" means the year of the subject reporting period.

<sup>&</sup>lt;sup>1</sup> All related E-Filing dockets can be found under the E-Filing case "Electrical: Data," with docket year corresponding to the reporting period for the data submission.

#### 2.3.1 GIS Data Submission

#### 2.3.1.1 Geodatabase (GDB)

Prior to submission, the electrical corporation must scan their GDB for viruses and compress GDBs into a zipped folder. Do not nest additional unnecessary folders within the zipped folder. The electrical corporation must submit zipped GDBs to Energy Safety's SharePoint secure file transfer portal. Each electrical corporation has been designated a secure folder on Energy Safety's SharePoint site. Files must be named as specified in Table 2 above. Energy Safety will provide direct links for the appropriate folders to identified electrical corporation points of contact prior to submission deadlines. Upon completion, the electrical corporation must email a notice to <u>data@energysafety.ca.gov</u> that indicates their data have been uploaded.

#### 2.3.1.2 Photos Submitted with Spatial Data

If the electrical corporation is submitting photos with spatial data, it must compile all photos into zipped folders. The electrical corporation may use as many folders as is practical to upload the data based on file sizes<sup>2</sup>. The electrical corporation, when submitting a large number of photos, should separate the photos by category, and if needed, by subcategory, e.g., initiative photos should be saved in one folder while risk event photos are saved in another folder. The zipped folder(s) must be submitted to Energy Safety's SharePoint secure file transfer portal as specified for the corresponding geodatabase. See relevant Section 3 subsections for specific photo file naming requirements.

#### 2.3.1.3 Spatial Data Status Report

Every quarter, the electrical corporation must submit a spatial data status report, prepared using the current version of the template. The status report is a standardized high-level overview of the contents of the geodatabase being submitted (see section 3.10 for more information). The status report template is an Excel workbook titled "OEIS QDR Spatial Data Status Report – v3" and is available on Energy Safety's website. The electrical corporation must name their status reports as specified in Table 2 above and submit the status reports through the E-Filing system.

#### 2.3.1.4 Additional Supporting Documentation for Spatial Data

The electrical corporation may submit additional supporting documentation such as explanations of abbreviations or other field values in their geodatabase. Supporting documentation, if any, must be submitted through the E-Filing system. See section 3.5 for metadata requirements.

<sup>&</sup>lt;sup>2</sup> Energy safety's SharePoint site should allow uploads as large as 250GB per file, however smaller sizes with approximately 10 GB as the upper limit are recommended.

#### 2.3.1.5 Application for Confidential Designation

The electrical corporation may request a confidential designation for their information by submitting an application through Energy Safety's E-Filing system.<sup>3</sup> Requests for confidential designation must meet Energy Safety's regulatory requirements.<sup>4</sup>

## **2.4 Revisions to Previously Submitted Data**

The electrical corporation must provide revisions (e.g., to correct an error or update risk event reporting) to any previously submitted data by the next quarterly submission date once the need for the revision becomes known to the electrical corporation. Revisions to previously submitted data must be made in the manner described below, unless otherwise directed by Energy Safety.

Except as described in Section 2.4.2 below, when a data submission includes revisions to previously submitted data, the electrical corporation must provide a cover letter containing the following information for each record being revised:

- All Data Types
  - 1. Description
  - 2. Explanation for each revision
  - 3. Related change order request date (if applicable)
- GIS Data only
  - 1. Related feature or table name
  - Record ID(s) (This only applies if the change is a revision or deletion of a previously submitted record or records, as opposed to a new record that was omitted from a prior data submission.) Utilize the identified unique ID for the relevant feature or table, not the software-managed record ID.
- Tabular Wildfire Mitigation Data only
  - 1. Table name and cell reference

In cases where Energy Safety rejects an entire submitted feature or table and directs the electrical corporation to correct and resubmit the rejected data (e.g., due to failure to adhere to the required schema), the resubmission shall not be considered a revision.

<sup>&</sup>lt;sup>3</sup> E-Filing users may reference the Energy Safety E-Filing System User Guide for assistance at, https://efiling.energysafety.ca.gov/Documents/External%20EFiling%20User%20Guide\_June%202023.PDF. <sup>4</sup> See 14 CCR § 29200.

#### 2.4.2 Geographic Information Systems (GIS) Data

When revising a GIS data submission from a prior reporting period (including but not limited to changing some field values, adding records, or removing records), the electrical corporation must resubmit the entire feature class or table containing changes for that period. Entire feature class or table means the feature class or table must also include all original records that are not being revised. The electrical corporation must not resubmit features or tables that are not being revised.

#### 2.4.2.1 Spatial Asset Data

Updates to features in the Asset Point and Asset Line data sets must be included in the next regular quarterly data submission and are not considered revisions.

#### 2.4.3 Tabular Wildfire Mitigation Data

When revising a quarterly or annual-EOY Tabular Wildfire Mitigation data submission from a prior reporting period, the electrical corporation must incorporate the revisions into its – submission for that prior period and resubmit those tables in their entirety with other fields unchanged. This revised quarterly or annual-EOY submission replaces the previous version of the electrical utility's submission for the relevant reporting period.

#### 2.4.3.1 Annual-WMP Data Submission

The electrical corporation must revise its annual-WMP data submission following approval of its related Base WMP or WMP Update to reflect any changes in targets, projections, and risk data set forth in its approved Base WMP or WMP Update. The electrical corporation may **not** submit revisions to its annual-WMP data submission without prior Energy Safety approval of such change in its WMP.

The electrical corporation does not need to submit a revision if the electrical corporation's Base WMP or WMP Update is approved without changes to any of the targets, projections, or risk data reported in the electrical corporation's related annual-WMP data submission.

# 2.5 Timeframe of Data

Quarterly and annual-EOY data submissions must include data for those events that occurred during the reporting period and data for assets in place at the end of the reporting period. For example, quarterly event data submitted on May 1 must include all risk events that occurred within the first quarter (January – March), including all known event details. Quarterly asset data submitted on May 1 must include all assets (in the required categories) that were in place in the electrical corporation's system of record at the close of the first quarter. Annual-EOY

financial data reported February 1 must include all expenditures for the preceding calendar year.

#### 2.5.1 GIS Data Timeframe

The electrical corporation does not need to include spatial features in their current spatial data submission where the data have not changed since the prior reporting period.

For spatial data sets that include forward looking records, the planning horizon must include the quarter following the reporting period.

Initiative data for each reporting period must include all initiative work performed during the reporting period, as well as initiative work planned for the quarter following the reporting period. Initiative work reported spatially must reflect the following status labeling:

- Projects and inspections that were completed in the reporting period must show status as "complete."
- Projects and inspections that remain in-progress from the prior reporting period or were started in the reporting period and were not completed within the reporting period must show status as "in-progress."
- Projects and inspections that are planned for the quarter following the reporting period must show status as "planned."

#### 2.5.2 Annual-WMP Wildfire Mitigation Data Timeframe

The timeframe of targets, projections, and risk data reported in the Annual-WMP data submission are directly related to the electrical corporation's WMP and must be consistent with how targets, projections, and risk data are reported and discussed in the electrical corporation's WMP. For example, targets, projections, and risk data in an Annual-WMP data submission for Year 1 will contain data for Years 1, 2 and 3, and must match targets, projections, and risk data provided in the electrical corporation's corresponding Base WMP. An Annual-WMP data submission for Year 2 will contain data for Years 2 and 3, and must match targets, projections, and risk data provided in the electrical corporation's corresponding WMP.



# 3. GEOGRAPHIC INFORMATION SYSTEMS (GIS) DATA



# **3.1 Data Submission Requirements**

The data submitted by the electrical corporation must comply with each of the following requirements:

- 1. Submit data in a single GDB.
- 2. Name the GDB according to requirements provided in Table 2.
- 3. Submit GDB files that are interoperable and compatible with standard industry practices.
- 4. Ensure all data attributes follow the schema required in these Guidelines.
- 5. Customize metadata as needed to follow the requirements in these Guidelines.
- 6. Use the WGS 1984 California (Teale) Albers (US Feet) projected coordinate system (WKID Esri 102599) for all data submitted.
- 7. Delete any feature classes and/or tables not used (do not submit empty feature classes or tables).

The electrical corporation must ensure location accuracy in their GIS data submissions, including, but not limited to:

- All records in feature classes must include geometry.
- Horizontal locations reported in feature classes must be within 20 meters of actual locations as established using a commercially available GNSS receiver in the current epoch of the WGS84 datum under conditions where the receiver's estimated horizontal positional error is 5 meters or less.
- All records must be for assets located at least partially within California state boundaries, except where assets outside California boundaries are being relied upon by the electrical corporation for operations within California. For example, electrical corporation cameras or weather stations installed on mountain tops in another state that are observing conditions within California would be included in the data submission.

Energy Safety may reject data submissions that do not comply with the above requirements or the required schema and direct the electrical corporation to file corrected data or resubmission.

# **3.2 Addressing Missing Data**

#### 3.2.1 Entirely Empty Feature Classes and Tables

The electrical corporation must delete any empty feature classes and tables prior to submission to Energy Safety.

#### 3.2.2 Values Not Available

When there is no data for a field, the electrical corporation must leave the field null (empty), except where "N/A" is specified and the conditions for its use are met. The electrical corporation must not place "Unknown", "0", empty spaces, or other placeholders into fields, or use the "Other, see comment" option, when no data are available.

### **3.3 Geodatabase Structure**

Energy Safety provides a required template GDB that reflects the current data standard. Link and location of the template is referenced in Appendix D. This template includes empty feature classes and tables for all required data, Feature classes are organized in feature datasets with each one containing thematically similar feature classes. Note that, in this document, tables are presented as if they are in feature datasets as well, to organize the document by theme. However, tables cannot technically be in feature datasets in the GDB format. In the actual template, the tables are at the top level of the database and listed alphabetically.

#### 3.3.1 Feature Class and Table Naming Conventions

The template GDB includes the format for feature data set, feature class, and table names. The electrical corporation must replace the "XXX" placeholders in the template with a 2-4 letter abbreviation of the electrical corporation's name and replace the year and quarter to reference the current reporting period.

## 3.4 Metadata

The electrical corporation must provide, at a minimum, metadata as described below for features and tables in the Asset Point, Asset Line, PSPS Event, Risk Event, and Initiative Datasets, and the Major Woody Stem Exempt Tree Point feature. The electrical corporation is not required to use the native GDB metadata but may choose to provide supplemental information in any commonly used digital format (e.g., PDF, Microsoft Word or Excel). Any such separate metadata must be submitted through the E-Filing system.

- Description
  - Definitions for any coded field values and values not in domains defined by Energy Safety in these guidelines (section 3.7).
  - Describe the methodology for how the data were developed. This includes, at a minimum, identifying the sources (by filename) from which the data

were derived and an explanation of how data were pulled from those sources. Also, describe any data field collection techniques.

- Credits
  - List the entity or entities, including the names of any contracting companies, responsible for collection or development of the submitted data.

# 3.5 Spatial Data Status Report

#### 3.5.1 Introduction

The status report workbook contains an overview sheet and a detail sheet which lists each field in each feature dataset in the GDB:

- Asset Point
- Asset Line
- PSPS Event
- Risk Event
- Initiative
- Other Required Data

#### 3.5.2 Overview Sheet

The overview sheet provides a quick, high-level view of what feature classes and tables were submitted and why. This sheet lists every feature class and table, organized by dataset, and has the following columns:

- Submitted
- Reason
- Availability Explanation
- Locations Confidential? (Yes/No)
- Metadata Included (Yes/No)
- Metadata Absence Explanation
- Data Procurement Actions
- Estimated Delivery

The electrical corporation must fill out the "Submitted" column for each feature class and table in Energy Safety's data schema. If any data are populated for a given feature class or table, the electrical corporation must populate the "Submitted" column as "Yes," even if the data are incomplete for the given feature class or table. If no data are populated to a given feature class or table, the electrical corporation must populate the "Submitted" value as "No" and populate the "Reason" column. The electrical corporation must use one of three possible reasons data might not be submitted, as detailed in the table below.

Reason	Explanation / Examples
No change since last submission	There have been no changes to the electrical
	corporation's internal data since the last QDR spatial
	data submission (Energy Safety will continue to use
	previously submitted data). This reason may only be
	used for the following features: Other Power Line
	Connection Location, Critical Facility, Administrative
	Area, Major Woody Stem Exempt Tree Point, and all
	features within the Asset Point and Line feature
	datasets.
Not able to provide	Electrical corporation does not currently collect
	relevant data; electrical corporation is not currently
	able to convert its data to the required format
Not relevant for the reporting quarter	Electrical corporation did not have anything to report
	for the quarter (e.g., no PSPS events occurred);
	electrical corporation does not have any assets in the
	category (e.g., no transmission lines); electrical
	corporation does not collect data in this format but
	submitted other equivalent data (e.g., vegetation
	inspections, which may be submitted as any
	combination of points/lines/polygons as
	appropriate)

#### 3.5.2.1 Availability Explanation

When the electrical corporation does not submit a feature class or table and provides the reason as "Not able to provide", the electrical corporation must provide an "Availability Explanation" in that column. At a minimum, the electrical corporation must explain why data are unavailable. When the electrical corporation does not submit a feature class or table and provides the reason as "No change since last submission" or "Not relevant for the reporting quarter", the electrical corporation does not need to provide an "Availability Explanation".

#### 3.5.2.2 Locations Confidential

If the location of any assets in the feature are considered confidential, independent of any attribute data, describe which features. If all locations in the feature are considered confidential, stating "Yes" is sufficient. If only some locations are considered confidential, describe which, based on information contained in the data (e.g. "Locations of assets in this feature with nominal voltage greater than or equal to 65kv are considered confidential").

Note: An application for confidential status must be submitted concurrently with the files containing the data claimed to be confidential. This applies to documents submitted through

Energy Safety's E-Filing system and those submitted through the alternate SharePoint system. Applications must be submitted to the E-Filing system according to submission instructions detailed in section 2.3 of this document. Applications must meet the requirements of Title 14 of the California Code of Regulations section 29200.

#### 3.5.2.3 Metadata

If required metadata were not included for a feature class or table, the electrical corporation must populate the "Metadata Included" column as "No" and provide an explanation for why metadata are absent in the "Metadata Absence Explanation" column.

#### 3.5.2.4 Data Procurement Actions and Estimated Delivery

When the electrical corporation does not submit a feature class and provides the reason as "Not able to provide", the electrical corporation must provide:

- explanation in the "Data Procurement Actions" column describing the actions the electrical corporation has taken and plans to take to collect and report currently unavailable data, and
- projected date in the "Estimated Delivery" column by which the required data are expected to be available.

The electrical corporation does not need to populate the "Data Procurement Actions" and "Estimated Delivery" columns for data not submitted because there were no changes since the last submission or because there were no relevant data for the reporting quarter as defined in the table above.

#### 3.5.3 Detail Sheet

The detail sheet lists the field names, field descriptions, and specifications for each field in each feature and table and has the following columns:

- Provided in current submission
- Availability explanation
- Data procurement actions
- Estimated delivery
- Confidential

The electrical corporation must add information in the detail sheet only for features or tables that are included in the electrical corporation's submission. The "Provided in current submission" column must be completed for every row. The "Availability explanation," "Data procurement actions," and "Estimated delivery" columns are only required where "Provided in current submission" is "No" or "Partial" as explained below. The "Confidential" column must be completed for all fields in each feature class or table that has data. The "Availability explanation," "Data procurement actions," and "Estimated delivery" columns are only required where "Provided in current submission" is "No" or "Partial" as explained below. The "Confidential" column must be completed for all fields in each feature class or table that has data. The "Availability explanation," "Data procurement actions," and "Estimated delivery" columns are only required where "Provided in current submission" is "No" or "Partial" as explained below.

#### 3.5.3.1 Provided in Current Submission

The electrical corporation must enter "Yes," "No," or "Partial" based on how much data was provided. If all applicable rows for a field have a real value (i.e., not "-99," "Unknown," or null), enter "Yes." If some values are populated, but others are "-99," "Unknown," or null, enter "Partial" If all values are "-99," "Unknown," or null, enter "No."

#### 3.5.3.2 Availability Explanation

The electrical corporation must enter information in this column for unavailable and partially available data at the field level. At a minimum, the electrical corporation must explain why data are unavailable or partially available. Enter other relevant commentary as needed.

#### 3.5.3.3 Data Procurement Actions

The electrical corporation must enter information in this column for unavailable and partially available data at the field level. The electrical corporation must describe the actions the electrical corporation has taken and plans to take to collect and report currently unavailable or partially available data.

#### 3.5.3.4 Estimated Delivery

The electrical corporation must enter information in this column for unavailable and partially available data at the field level. The electrical corporation must state when the required data will be submitted to Energy Safety and explain delays or other timing issues as needed.

#### 3.5.3.5 Confidential

The electrical corporation must enter "Yes" or "No" to indicate whether the electrical corporation is requesting confidential designation for the provided attribute data at the field level.

Note: An application for confidential status must be submitted concurrently with the files containing the data claimed to be confidential. This applies to documents submitted through Energy Safety's E-Filing system and those submitted through the alternate SharePoint system. Applications must be submitted to the E-File system according to submission instructions detailed in section 2.3 of this document. Applications must meet the requirements of Title 14 of the California Code of Regulations section 29200.

# 3.6 GIS Data Schema

#### 3.6.1 Asset Line (Feature Dataset)

For all features in this dataset, each line must represent a single circuit. The electrical corporation must not submit separate lines for phases or multiple conductors per phase and must not submit one line representing multiple circuits.

Field Name	Field Description
SegmentID	Unique ID of circuit segment. Must be a unique value that identifies this portion of the circuit and a traceable stable ID within the electrical corporation's operations/processes. Primary Key for the feature class unless the electrical corporation does not uniquely identify segments with persistent IDs. This field is required IF the electrical corporation has persistent stable IDs for circuit segments. A segment may be anything more granular than a circuit, including a single span.
CircuitID	Unique ID for a specific circuit. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary Key for the feature class if the electrical corporation does not uniquely identify segments with persistent IDs. This field is required.
UtilityID	<ul> <li>Standardized identification name of the electrical corporation. Possible values:</li> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> <li>SDG&amp;E</li> <li>TBC</li> <li>This field is required.</li> </ul>
SubstationID	ID of substation associated with asset. Foreign key to the Substation feature. This field is required.
CircuitName	Name of circuit associated with asset. Leave null if there is no unique circuit name that is different than the circuit ID. There is no need to repeat CircuitID values in this field. This field is optional.
ConductorType	Type of conductor. Possible values: <ul> <li>Bare</li> <li>Covered</li> <li>Insulated</li> <li>Other, see comment</li> </ul> This field is required.
ConductorTypeComment	Conductor type not listed in the options above. This field is required IF ConductorType is "Other, see comment".

#### 3.6.1.1 Primary Distribution Line (Feature Class)

AssetOHUG	Is the asset overhead or underground? Possible values:
	Overhead
	Underground
	•
	This field is required.
NominalVoltagekV	Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. This field is required.
OperatingVoltagekV	Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places This field is required.
SubstationName	Name of substation associated with asset. This field is optional.
ConductorMaterial	Conductor material. Possible values:
	All aluminum conductor (AAC)
	All aluminum alloy conductor (AAAC)
	Aluminum conductor aluminum reinforced (ACAR)
	Aluminum conductor steel reinforced (ACSR)
	Aluminum conductor steel supported (ACSS)
	Copper (Cu)
	Other, see comment
	This field is required.
ConductorMaterialComment	Conductor material not listed in the options above. This field is required IF
	ConductorMaterial is "Other, see comment".
ConductorSize	Size of conductor (e.g., No. 4 Cu or 1/0 ACSR). This field is required.
ConductorOD	Overall diameter of the conductor in inches. This field is required.
LastInspectionDate	Date of the last inspection. This field is required.
LastMaintenanceDate         Date of the last maintenance. This field is required.	
InstallationDate	Date the asset was installed. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate OR EstimatedAge is required.
EstimatedAge	The estimated age of the asset in years. Only use this field if the InstallationYear and
	InstallationDate values are unknown. Possible values:
	• 0-9
	• 10-19
	• 20-29
	• 30-39
	• 40-49
	• 50-59
	• 60-69
	• 70-79
	• 80-89
	• 90-99
	• 100+
	This field OR InstallationDate OR InstallationYear is required.
UsefulLifespan	The number of years an asset is expected to have a useful functioning existence upon initia
	installation. This field is required.

AmpacityRating	Nominal ampacity rating of the conductor in amperes. This field is required.	
OverallUtilityRisk	Overall risk calculated for the segment as required in WMP guidelines section 4. Note that the electrical corporation is not required to calculate risk for lines vs. support structures, only to do one or the other. Depending on the electrical corporation's approach, it may report risk for line segments for some or all of its infrastructure, or it may calculate for both. This field is required IF the electrical corporation performs its risk ranking on primary distribution lines (rather than on support structures only).	
IgnitionRisk	Ignition risk (component of overall risk) calculated for the segment as required in WMP guidelines section 4. Note that the electrical corporation is not required to calculate risk for lines vs. support structures, only to do one or the other. Depending on the electrical corporation's approach, it may report risk for line segments for some or all of its infrastructure, or it may calculate for both. This field is required IF the electrical corporation performs its risk ranking on primary distribution lines (rather than on support structures only).	
PSPSRisk	PSPS Risk (component of overall risk) calculated for the segment as required in WMP guidelines section 4. Note that the electrical corporation is not required to calculate risk for lines vs. support structures, only to do one or the other. Depending on the electrical corporation's approach, it may report risk for line segments for some or all of its infrastructure, or it may calculate for both. This field is required IF the electrical corporation performs its risk ranking on primary distribution lines (rather than on support structures only).	

# *3.6.1.2 Secondary Distribution Line (Feature Class)*

Field Name	Field Description	
SegmentID	Unique ID of circuit segment. Must be a unique value that identifies this portion of the circuit and a traceable stable ID within the electrical corporation's operations/processes. Primary Key for the feature class. Unless the electrical corporation does not uniquely identify segments with persistent IDs. This field is required IF the electrical corporation has persistent stable IDs for circuit segments. A segment may be anything more granular than a circuit, including a single span.	
CircuitID	Unique ID for a specific circuit. Must be a traceable stable ID within the electrical corporation's operations/processes. This ID is expected to be based on the circuit name of the secondary line's associated primary distribution line. Primary Key for the feature class if the electrical corporation does not uniquely identify segments with persistent IDs. This field is required.	

UtilityID	Standardized identification name of the electrical corporation. Possible values:	
	BVES	
	• HWT	
	Liberty	
	LS Power	
	PacifiCorp	
	• PG&E	
	• SCE	
	• SDG&E	
	• TBC	
	This field is required.	
SubstationID	ID of substation associated with asset. Foreign key to the Substation feature. This field is	
	required.	
CircuitName	Name of circuit associated with asset. This name is expected to be based on the circuit name	
	of the secondary line's associated primary distribution line. Leave null if there is no unique	
	circuit name that is different than the circuit ID. There is no need to repeat CircuitID values in	
	this field. This field is optional.	
ConductorType	Type of conductor. Possible values:	
	Open wire	
	• Duplex	
	• Triplex	
	Quadruplex	
	Other, see comment	
	This field is required.	
ConductorTypeComment	Conductor type not listed in the options above. This field is required IF ConductorType is	
conductorrypeconnient	"Other, see comment".	
AssetOHUG	Is the asset overhead or underground? Possible values:	
Assecondo	Overhead     Overhead	
	Underground	
	This field is required.	
SubstationName	Name of substation associated with asset. This field is optional.	
ConductorMaterial	Conductor material. Possible values:	
	All aluminum conductor (AAC)	
	All aluminum alloy conductor (AAAC)	
	Aluminum conductor aluminum reinforced (ACAR)	
	Aluminum conductor steel reinforced (ACSR)	
	Aluminum conductor steel supported (ACSS)	
	Copper (Cu)	
	Other, see comment	
	This field is required.	
ConductorMaterialComment	Conductor material not listed in the options above. This field is required IF ConductorMaterial	
	is "Other, see comment".	
ConductorSize	Size of conductor (e.g., No. 4 Cu or 1/0 ACSR). This field is required.	
ConductorOD	Overall diameter of the conductor in inches. This field is required.	
LastInspectionDate	Date of the last inspection. This field is required.	

LastMaintenanceDate	Date of the last maintenance. This field is required.		
InstallationDate	Date the asset was installed. This field OR InstallationYear OR EstimatedAge is required.		
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate OR EstimatedAge is		
	required.		
EstimatedAge	The estimated age of the asset in years. Only use this field if the InstallationYear and		
	InstallationDate values are unknown. Possible values:		
	• 0-9		
	• 10-19		
	• 20-29		
	• 30-39		
	• 40-49		
	• 50-59		
	• 60-69		
	• 70-79		
	• 80-89		
	• 90-99		
	• 100+		
	. This field OR InstallationDate OR InstallationYear is required.		
UsefulLifespan	The number of years an asset is expected to have a useful functioning existence upon initia		
	installationThis field is required.		
AmpacityRating	Nominal ampacity rating of the conductor in amperes. This field is required.		
OverallUtilityRisk	Overall risk calculated for the segment as required in WMP Guidelines Chapter III, Section 5		
	Note that the electrical corporation is not required to calculate risk for lines vs. suppor		
	structures, only to do one or the other. Depending on the electrical corporation's approach		
	it may report risk for line segments for some or all of its infrastructure, or it may calculate fo		
	both. This field is required IF the electrical corporation performs its risk ranking on secondar		
	distribution <b>lines</b> (rather than on support structures only).		
IgnitionRisk	Ignition risk (component of overall risk) calculated for the segment as required in WMF		
	guidelines section 4. Note that the electrical corporation is not required to calculate risk fo		
	lines vs. support structures, only to do one or the other. Depending on the electrica		
	corporation's approach, it may report risk for line segments for some or all of it		
	infrastructure, or it may calculate for both. This field is required IF the electrical corporation		
	performs its risk ranking on secondary distribution lines (rather than on support structure		
	only).		
PSPSRisk	PSPS Risk (component of overall risk) calculated for the segment as required in WM		
	guidelines section 4. Note that the electrical corporation is not required to calculate risk for		
	lines vs. support structures, only to do one or the other. Depending on the electrica		
	corporation's approach, it may report risk for line segments for some or all of it		
	infrastructure, or it may calculate for both. This field is required IF the electrical corporation		
	performs its risk ranking on secondary distribution lines (rather than on support structure		
	only).		

#### 3.6.1.3 Transmission Line (Feature Class)

If the electrical corporation classifies some lines as "sub-transmission," the electrical corporation must include those lines in this feature class, and the electrical corporation must explain its definition of "sub-transmission" in the metadata.

Field Name	Field Description	
SegmentID	Unique ID of circuit segment. Must be a unique value that identifies this portion of the circuit and a traceable stable ID within the electrical corporation's operations/processes. Primary Key for the feature class unless the electrical corporation does not uniquely identify segments with persistent IDs. This field is required IF the electrical corporation has persistent stable IDs for circuit segments. A segment may be anything more granular than a circuit, including a single span.	
CircuitID	Unique ID for a specific circuit. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary Key for the feature class if the electrical corporation does not uniquely identify segments with persistent IDs. This field is required.	
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC         This field is required.	
LineClass	Classification of line asset. Possible values: <ul> <li>Transmission</li> <li>Sub-Transmission</li> </ul> This field is required.	
CircuitName	Name of circuit associated with asset. Leave null if there is no unique circuit name that is different than the circuit ID. There is no need to repeat CircuitID values in this field. This field is optional.	
ConductorType	Type of conductor. Possible values: Bare Covered Insulated Other, see comment This field is required.	
ConductorTypeComment	Conductor type not listed in the options above. This field is required IF ConductorType is "Other, see comment".	
AssetOHUG	Is the asset overhead or underground? Possible values: <ul> <li>Overhead</li> <li>Underground</li> </ul> This field is required.	

NominalVoltagekV	Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. This field is required.	
OperatingVoltagekV	Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. This field is required.	
ConductorMaterial	Conductor material. Possible values:	
	All aluminum conductor (AAC)	
	• All aluminum alloy conductor (AAAC)	
	Aluminum conductor aluminum reinforced (ACAR)	
	Aluminum conductor steel reinforced (ACSR)	
	Aluminum conductor steel supported (ACSS)	
	Copper (Cu)	
	• Other, see comment	
	This field is required.	
ConductorMaterialComment	Conductor material not listed in the options above. This field is required IF	
	ConductorMaterial is "Other, see comment".	
ConductorSize	Size of conductor (e.g., No. 4 Cu or 1/0 ACSR). This field is required.	
ConductorOD	Overall diameter of the conductor in inches. This field is required.	
LastInspectionDate	Date of the last inspection. This field is required.	
LastMaintenanceDate	Date of the last maintenance. This field is required.	
InstallationDate	Date the asset was installed. This field OR InstallationYear OR EstimatedAge is required.	
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate OR EstimatedAge is	
	required.	
EstimatedAge	The estimated age of the asset in years. Only use this field if the InstallationYear and	
	InstallationDate values are unknown. Possible values:	
	• 0-9	
	• 10-19	
	• 20-29	
	• 30-39	
	• 40-49	
	• 50-59	
	• 60-69	
	• 70-79	
	• 80-89	
	• 90-99	
	• 100+	
	This field OR InstallationDate OR InstallationYear is required.	
UsefulLifespan	The number of years an asset is expected to have a useful functioning existence upon initia	
	installationThis field is required.	
AmpacityRating	Nominal ampacity rating of the conductor in amperes. This field is required.	
OverallUtilityRisk	Overall risk calculated for the segment as required in WMP guidelines section 4. Note that	
	the electrical corporation is not required to calculate risk for lines vs. support structures, only	
	to do one or the other. Depending on the electrical corporation's approach, it may report risk	
	for line segments for some or all of its infrastructure, or it may calculate for both. This field is	
	required IF the electrical corporation performs its risk ranking on transmission lines (rather	
	than on support structures only).	

IgnitionRisk	Ignition risk (component of overall risk) calculated for the segment as required in WMP guidelines section 4. Note that the electrical corporation is not required to calculate risk for
	lines vs. support structures, only to do one or the other. Depending on the electrical corporation's approach, it may report risk for line segments for some or all of its
	infrastructure, or it may calculate for both. This field is required IF the electrical corporation performs its risk ranking on transmission <b>lines</b> (rather than on support structures only).
PSPSRisk	PSPS Risk (component of overall risk) calculated for the segment as required in WMP guidelines section 4. Note that the electrical corporation is not required to calculate risk for lines vs. support structures, only to do one or the other. Depending on the electrical corporation's approach, it may report risk for line segments for some or all of its infrastructure, or it may calculate for both. This field is required IF the electrical corporation
	performs its risk ranking on transmission <b>lines</b> (rather than on support structures only).

#### 3.6.1.4 Transmission Line Detail (Table)

The electrical corporation must create as many records for each circuit or segment as required to record the substations associated with each circuit or segment.

SegmentID	ID of circuit segment. Foreign key to the transmission line feature if the electrical corporation has persistent unique segment IDs. This field OR CircuitID is required. A segment may be anything more granular than a circuit, including a single span.	
CircuitID	ID of circuit. Foreign key to the transmission line feature if the electrical corporation does not have persistent unique segment IDs. This field OR SegmentID is required.	
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC         This field is required.	
SubstationID	ID of substation associated with asset. Foreign key to the Substation feature. This field is required.	

### **3.6.2 Asset Point (Feature Dataset)**

#### 3.6.2.1 Camera (Feature Class)

Field Name	Field Description	

AssetID	Unique ID for a specific camera. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary key for the Camera feature. This field is required.	
SuppportAssetID	Unique ID for asset to which camera is attached. Foreign key to the the feature where that asse is found. This field is required.	
Asset Feature	<ul> <li>Identifies the feature class where the asset ID should be found. Possible values:</li> <li>Connection Device</li> <li>Fuse</li> <li>Lightning Arrester</li> <li>Support Structure</li> <li>Switchgear</li> <li>Transformer Site</li> <li>This field is required IF SupportAssetID is populated.</li> </ul>	
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC         This field is required.	
CameraLocationName	Unique name of camera location (e.g., "Cisco Buttes 1", "Penn Valley"). For Alert Wildfire cameras, this must match the name on the website. This field is optional.	
HFTDClass	<ul> <li>The CPUC high-fire threat district (HFTD) area the asset intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: <ul> <li>Tier 3</li> <li>Tier 2</li> <li>Non-HFTD</li> </ul> </li> <li>HFTD data can be downloaded from: <a href="https://ia.cpuc.ca.gov/firemap">https://ia.cpuc.ca.gov/firemap</a>. This field is required.</li> </ul>	

#### 3.6.2.2 Connection Device (Feature Class)

The electrical corporation must report splices and devices that perform the same function as a splice (i.e., joining two segments of conductor) in this feature class. The electrical corporation does not need to report flying taps as part of this feature class.

Field Description	
Unique ID for a specific connection device. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary key for the Connection Device feature. This field is required.	
ID of the structure upstream of the span of line containing a connection device. This structure may be a support structure (e.g., pole or tower) if the span is overhead, or it may be something else (e.g., manhole, vault, etc.) if the span is underground. Foreign key to the Support Structure feature. This field is required.	
ID of the structure downstream of the span of line containing a connection device. This structure may be a support structure (e.g., pole or tower) if the span is overhead, or it may be something else (e.g., manhole, vault, etc.) if the span is underground. Foreign key to the Support Structure feature. This field is required.	
ID of circuit segment associated with asset. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs. This field OR CircuitID is required.	
ID of circuit associated with asset. Foreign key to the asset line features if the electrical corporation does not have persistent unique segment IDs. This field OR SegmentID is required.	
Identifies the feature class where the Segment or Circuit ID should be found Possible values: Transmission Line Primary Distribution Line Secondary Distribution Line This field is required.	
ID of substation associated with asset. Foreign key to the Substation feature. This field is required.	
Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC         This field is required.	

Is the asset overhead or underground? Possible values:
Overhead
Underground
Surface (Padmount)
This field is required.
What type of connection device is the asset? Possible values:
Splice
Connector
• Clamp
Other, see comment
Note: The electrical corporation does not need to report flying taps as part of this
feature class. This field is required.
Connection device type not listed in the options above. This field is required IF
ConnectionDeviceType is "Other, see comment".
What is the specific subtype of the connection device?
Automatic splice
Crimp splice
Explosive sleeve splice
• 3-bolt
Parallel groove
Other, see comment
This field is required.
Connection device subtype not listed in the options above. This field is required IF
ConnectionDeviceSubtype is "Other, see comment".
Nominal voltage (in kilovolts) associated with asset. Do not use more than two
decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
Operating voltage (in kilovolts) associated with asset. Do not use more than two
decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
Name of circuit associated with asset. Leave null if there is no unique circuit name
that is different than the circuit ID. There is no need to repeat CircuitID values in this
field. This field is optional.
Name of the manufacturer of the connection device. Do not use acronyms of abbreviations for this field unless explained in metadata. This field is required.
Model number of the asset. This field is required.
Date of the last inspection. This field is required.
Date the asset was installed. This field OR Installation Year OR EstimatedAge is
required.
Year of asset installation. Use four digits. This field OR InstallationDate OF EstimatedAge is required.

EstimatedAge	The estimated age of the asset in years. Only use this field if the InstallationYear and
	InstallationDate values are unknown. Possible values:
	• 0-9
	• 10-19
	• 20-29
	• 30-39
	• 40-49
	• 50-59
	• 60-69
	• 70-79
	• 80-89
	• 90-99
	• 100+
	. This field OR InstallationDate OR InstallationYear is required.
UsefulLifespan	The number of years an asset is expected to have a useful functioning existence
	upon initial installation. This field is required.
HFTDClass	The CPUC high-fire threat district (HFTD) area the asset intersects. For these data,
	anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record
	any Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is
	required.

# 3.6.2.3 Customer Meter (Feature Class)

Field Name	Field Description	
MeterID	Unique ID for a specific meter. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary key for the Customer Meter feature. This field is required.	
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC         This field is required.	
SegmentID	ID of circuit segment associated with asset. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs. This field OR CircuitID is required.	

CircuitID	ID of circuit associated with asset. Foreign key to the asset line features if the electrical corporation does not have persistent unique segment IDs. This field OR SegmentID is required.	
SubstationID	ID of substation associated with asset. Foreign key to the Substation feature. This field is required.	
CircuitName	Name of circuit associated with asset. Leave null if there is no unique circuit name that is different than the circuit ID. There is no need to repeat "CircuitID" values in this field. This field is optional.	
MeterType	Identifies whether meter is residential. Possible values: <ul> <li>Residential</li> <li>Non-residential</li> </ul> This field is required.	
Manufacturer	Name of the manufacturer of the meter. Do not use acronyms or abbreviations for this field. Fully spell out the manufacturer name. This field is required.	
ModelNumber	Model number of the asset. This field is required.	
InstallationDate	Date the asset was installed. This field OR InstallationYear OR EstimatedAge is required.	
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate OR EstimatedAge is required.	
EstimatedAge	The estimated age of the asset in years. Only use this field if the InstallationYear and InstallationDate values are unknown. Possible values: • 0-9 • 10-19 • 20-29 • 30-39 • 40-49 • 50-59 • 60-69 • 70-79 • 80-89 • 90-99 • 100+ • This field OR InstallationDate OR InstallationYear is required.	
HFTDClass	<ul> <li>The CPUC high-fire threat district (HFTD) area the asset intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values:</li> <li>Tier 3</li> <li>Tier 2</li> <li>Non-HFTD</li> <li>HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap. This field is required.</li> </ul>	

## 3.6.2.4 Fuse (Feature Class)

The electrical corporation must include only overhead fuse locations in this feature class.

Field Name	Field Description
AssetID	Unique ID for a specific fuse. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary key for the Fuse feature. This field is required.
SupportStructureID	Unique ID for support structure to which fuse is attached. Foreign key to the Support Structure feature. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: BVES HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC This field is required.
SubstationID	ID of substation associated with asset. Foreign key to the Substation feature. This field is required.
SegmentID	ID of circuit segment associated with asset. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs. This field OR CircuitID is required.
CircuitID	ID of circuit associated with asset. Foreign key to the asset line features if the electrical corporation does not have persistent unique segment IDs. This field OR SegmentID is required.
AssociatedNominalVoltagekV	Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
CircuitName	Name of circuit associated with asset. Leave null if there is no unique circuit name that is different than the circuit ID. There is no need to repeat "CircuitID" values in this field. This field is optional.
LastInspectionDate	Date of the last inspection. This field is required.
LastMaintenanceDate	Date of the last maintenance. This field is required.
ExemptionStatus	Is the asset exempt per California Public Resources Code (PRC) section 4292? Possible values: <ul> <li>Yes</li> <li>No</li> <li>N/A</li> </ul> The "N/A" option is only applicable outside of state responsibility area. This field is required.

FuseRating	The nominal current rating of the fuse in amperes. This field is required.
FuseType	<ul> <li>Type of fuse device. Possible values:</li> <li>Bridged</li> <li>Current limiting</li> <li>Expulsion</li> <li>Fused elbow</li> <li>Other, see comment</li> <li>This field is required.</li> </ul>
FuseTypeComment	Fuse type not listed in the options above. This field is required IF FuseType is "Other, see comment".
FuseSubtype	What is the specific subtype of the fuse device? This field is optional.
HFTDClass	The CPUC high-fire threat district (HFTD) area the asset intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: • Tier 3 • Tier 2 • Non-HFTD HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.

# 3.6.2.5 Lightning Arrester (Feature Class)

Field Name	Field Description
AssetID	Unique ID for a specific lightning arrester. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary key for the Lighting Arrester feature. This field is required.
SupportStructureID	Unique ID for support structure to which lightning arrester is attached. Foreign key to the Support Structure feature. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: BVES HWT Liberty Sce SCE SDG&E TBC This field is required.
SubstationID	ID of substation associated with asset. Foreign key to the Substation feature. This field is required.
SegmentID	ID of circuit segment associated with asset. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs. This field OR CircuitID is required.

CircuitID	ID of circuit associated with asset. Foreign key to the asset line features if the electrical corporation does not have persistent unique segment IDs. This field OR SegmentID is required.
AssociatedNominalVoltagekV	Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
CircuitName	Name of circuit associated with asset. Leave null if there is no unique circuit name that is different than the circuit ID. There is no need to repeat "CircuitID" values in this field. This field is optional.
Manufacturer	Name of the manufacturer of the lightning arrester. Do not use acronyms or abbreviations for this field unless explained in metadata This field is required.
ModelNumber	Model number of the asset. This field is required.
LastInspectionDate	Date of the last inspection. This field is required.
LastMaintenanceDate	Date of the last maintenance. This field is required.
InstallationDate	Date the asset was installed. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate OR EstimatedAge is required.
EstimatedAge	The estimated age of the asset in years. Only use this field if the InstallationYear and InstallationDate values are unknown. Possible values: • 0-9 • 10-19 • 20-29 • 30-39 • 40-49 • 50-59 • 60-69 • 70-79 • 80-89 • 90-99 • 100+ • This field OR InstallationDate OR InstallationYear is required.
UsefulLifespan	The number of years an asset is expected to have a useful functioning existence upon initial installation. This field is required.
ExemptionStatus	Is the asset exempt per California Public Resources Code (PRC) section 4292? Possible values: • Yes • No • N/A The "N/A" option is only applicable outside of state responsibility area. This field is required.
ArresterRating	Rating of the lightning arrester in kilovolts. This field is required.

HFTDClass	The CPUC high-fire threat district (HFTD) area the asset intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any
	Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is
	required.

# 3.6.2.6 Substation (Feature Class)

Field Name	Field Description
SubstationID	ID of substation associated with asset. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary key for the Substation feature. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: <ul> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> <li>SDG&amp;E</li> <li>TBC</li> </ul> This field is required.
SubstationName	Name of substation. This field is optional.
SubstationNominalVoltagekV	Nominal voltage (in kilovolts) ratings associated with the substation. Include all applicable voltages separated by slashes (e.g., "230/139/69/12"). Ranges are also acceptable (e.g., "0-60"). This field is required.
SubstationOperatingVoltagekV	Operating voltage (in kilovolts) ratings associated with the substation. Include all applicable voltages separated by slashes (e.g., "230/139/69/12"). Ranges are also acceptable (e.g., "0-60"). This field is required.
SubstationRating	Power rating of the substation in mega volt amps (MVAs). This field is required.
LastInspectionDate	Date of the last inspection. This field is required.
InstallationDate	Date the first asset of the substation was installed. This field OR InstallationYear is required.
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate is required.

HFTDClass	The CPUC high-fire threat district (HFTD) area the asset intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any
	Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is
	required.

## 3.6.2.7 Support Structure (Feature Class)

In these requirements, "support structure" refers to the pole, tower, or other structure that supports overhead electrical equipment (e.g., circuits, transformers, fuses, etc.).

Field Name	Field Description
SupportStructureID	Unique ID for support structure. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary key for the Support Structure feature class attribute table. Enables connection to the Fuse, Lightning Arrester, Switchgear, and Transformer feature classes. May or may not be the same as PoleNumber. This field is required.
PoleNumber	Pole ID or number visible on the physical asset. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: <ul> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> <li>SDG&amp;E</li> <li>TBC</li> </ul> This field is required.
ExemptionStatus	Is the particular support structure, inclusive of all installed equipment, exempt from Public Resource Code (PRC) 4292 vegetation clearance requirements? Possible values: • Yes • No • N/A The "N/A" option is only applicable outside of state responsibility area. This field is required.
LastInspectionDate	Date of the last inspection. This field is required.
LastMaintenanceDate	Date of the last maintenance. This field is required.
LastIntrusiveDate	Date of the last intrusive. This field is required.

InstallationDate	Date the asset was installed. This field is required. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate OR EstimatedAge is required.
EstimatedAge	The estimated age of the asset in years. Only use this field if the "InstallationYear" and "InstallationDate" values are unknown. Possible values: • 0-9 • 10-19 • 20-29 • 30-39 • 40-49 • 50-59 • 60-69
	<ul> <li>70-79</li> <li>80-89</li> <li>90-99</li> <li>100+</li> <li>This field OR InstallationDate OR InstallationYear is required.</li> </ul>
UsefulLifespan	The number of years an asset is expected to have a useful functioning existence upon initial installation. This field is required.
SupportStructureType	Type of support structure. Possible values: <ul> <li>Pole</li> <li>Tower</li> <li>Other, see comment</li> </ul> This field is required.
SupportStructureTypeComment	Support structure type (analogous to a pole or tower) not listed in the options above. This field is required IF SupportStructureType is "Other, see comment".
SupportStructureMaterial	Material from which support structure is made. Possible values: <ul> <li>Wood</li> <li>Metal</li> <li>Composite</li> <li>Wrapped wood</li> <li>Concrete</li> <li>Other, see comment</li> </ul> This field is required.
SupportStructureMaterialComment	Support structure material not listed in the options above. This field is required IF SupportStructureMaterial is "Other, see comment".
SupportStructureMaterialSubtype	The subtype of structure material. For example, if a wood pole, the type of wood (i.e., Douglas-fir, Cedar, etc.). This field is optional.
Underbuild	Does the structure support multiple transmission or primary distribution circuits? Possible values: • Yes • No This field is required.

ConstructionGrade	Grade of construction, in accordance with GO 95, Rule 42. Possible Values:
	Grade A
	Grade B
	• Grade C
	This field is required.
CrossarmAttached	Is one or more crossarms attached to the support structure? Possible values:
	• Yes
	• No
	This field is required.
OverallUtilityRisk	Overall risk calculated for the structure as required in WMP guidelines section 4.
	Note that the electrical corporation is not required to calculate risk for support
	structures vs. line segments, only to do one or the other. Depending on the electrical
	corporation's approach, it may report risk for support structures for some or all of
	its infrastructure, or it may calculate for both. This field is required IF the electrical
	corporation performs its risk ranking on support structures (note that the electrical
	corporation may choose different approaches for transmission/distribution).
IgnitionRisk	Ignition risk (component of overall risk) calculated for the structure as required in
ignition tisk	WMP guidelines section 4. Note that the electrical corporation is not required to
	calculate risk for support structures vs. line segments, only to do one or the other.
	Depending on the electrical corporation's approach, it may report risk for support
	structures for some or all of its infrastructure, or it may calculate for both. This field
	is required IF the electrical corporation performs its risk ranking on support
	structures (note that the electrical corporation may choose different approaches for
	transmission/distribution).
PSPSRisk	PSPS Risk (component of overall risk) calculated for the structure as required in
	WMP guidelines section 4. Note that the electrical corporation is not required to
	calculate risk for support structures vs. line segments, only to do one or the other.
	Depending on the electrical corporation's approach, it may report risk for support
	structures for some or all of its infrastructure, or it may calculate for both. This field
	is required IF the electrical corporation performs its risk ranking on support
	structures (note that the electrical corporation may choose different approaches for
	transmission/distribution).
HFTDClass	The CPUC high-fire threat district (HFTD) area the asset intersects. For these data,
	anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any
	Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is
	required.

### 3.6.2.8 Support Structure Detail (Table)

This table documents relationships between support structures and multiple circuits. Segment IDs are preferred, but the electrical corporation may use circuit ID to identify line features associated with support structures if it does not have stable unique IDs for circuit segments. The electrical corporation must create as many records per structure as required to record all segments or circuits supported.

Field Name	Field Description	
SupportStructureID	Unique ID for support structure. Enables connection to the Support Structure feature class. This field is required.	
UtilityID	Standardized identification name of the electrical corporation. Possible values: <ul> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> <li>SDG&amp;E</li> <li>TBC</li> </ul> This field is required.	
LineClass	Identifies the feature class where the Segment or Circuit ID should be found. Possible values: <ul> <li>Transmission Line</li> <li>Primary Distribution Line</li> <li>Secondary Distribution Line</li> </ul> This field is required.	
SegmentID	ID of circuit segment associated with asset. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs. This field OR CircuitID is required.	
CircuitID	ID of circuit associated with asset. Foreign key to the asset line features if the electrical corporation does not have persistent unique segment IDs. This field OR SegmentID is required.	

#### 3.6.2.9 Switchgear (Feature Class)

Field Name	Field Description
AssetID	Unique ID for a specific switchgear asset. Must be a traceable stable ID
	within the electrical corporation's operations/processes. Primary key for the
	Switchgear feature. This field is required.
SupportStructureID	Unique ID for support structure to which a switchgear asset is attached.
	Foreign key to the Support Structure feature. This field is required.

UtilityID	Standardized identification name of the electrical corporation. Possible values:         •       BVES         •       HWT         •       Liberty         •       LS Power         •       PacifiCorp         •       PG&E         •       SDG&E         •       TBC         This field is required.
SubstationID	ID of substation associated with asset. Foreign key to the Substation feature. This field is required.
SegmentID	ID of circuit segment associated with asset. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs. This field OR CircuitID is required.
CircuitID	ID of circuit associated with asset. Foreign key to the asset line features if the electrical corporation does not have persistent unique segment IDs. This field OR SegmentID is required.
CircuitName	Name of circuit associated with asset. Leave null if there is no unique circuit name that is different than the circuit ID. There is no need to repeat "CircuitID" values in this field. This field is optional.
AssetLocation	Is the asset overhead or underground? Possible values: <ul> <li>Overhead</li> <li>Underground</li> <li>Surface (Padmount)</li> </ul> This field is required.
AssociatedNominalVoltagekV	Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. This field is required.
Manufacturer	Name of the manufacturer of the equipment. Do not use acronyms or abbreviations for this field unless explained in metadata This field is required.
ModelNumber	Model number of the asset. This field is required.
LastInspectionDate	Date of the last inspection. This field is required.
LastMaintenanceDate	Date of the last maintenance. This field is required.
InstallationDate	Date the asset was installed. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate OR EstimatedAge is required.

EstimatedAge	The estimated age of the asset in years. Only use this field if the
J	InstallationYear and InstallationDate values are unknown. Possible values:
	• 0-9
	• 10-19
	• 20-29
	• 30-39
	• 40-49
	• 50-59
	• 60-69
	• 70-79
	• 80-89
	• 90-99
	• 100+
	This field OR InstallationDate OR InstallationYear is required.
UsefulLifespan	The number of years an asset is expected to have a useful functioning
	existence upon initial installation. This field is required.
ExemptionStatus	Is the asset exempt per California Public Resources Code (PRC) section 4292?
	Possible values:
	• Yes
	• No
	• N/A
	The "N/A" option is only applicable outside of state responsibility area. This
	field is required.
CurrentRating	Nominal current rating of the switchgear in amperes. This field is required.
AssetClass	Is the asset associated with transmission or distribution? If the asset is
	associated with subtransmission, enter "Transmission." Possible values:
	Distribution
	Transmission
	This field is required.
SCADAEnabled	Can supervisory control and data acquisition (SCADA) be utilized with the
	asset? Possible values:
	• Yes
	• No
	This field is required.
SwitchgearType	Type of switchgear. Possible values:
Switchgeariype	Manual Disconnect
	Recloser
	Other, see comment
	This field is required.
SwitchgearTypeComment	Type of switch not identified in "Type" options or more specific info about
entengen i ypeeeninent	type of switch. This field is required IF SwitchgearType is "Other, see
	comment".
SwitchgearInsulatingMedium	Medium (air, gas, oil, etc.) providing insulation for switchgear asset. Be
SWITCHECAINSULATIENCULAIN	meaning and gas, on, etc., providing insulation for switchgear asset. De

HFTDClass	The CPUC high-fire threat district (HFTD) area the asset intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do
	not record any Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This
	field is required.

## *3.6.2.10 Transformer Site (Feature Class)*

The electrical corporation must record locations of transformers, whether single or in a bank, as points.

Field Name	Field Description
TransformerSiteID	Unique ID for a specific transformer site. It should be a traceable stable ID within the electrical corporation's operations/processes. Primary key enabling connection to the Transformer Detail table. This field is required.
SupportStructureID	Unique ID for support structure to which transformer is attached. It should be a traceable stable ID within the electrical corporation's operations/processes. Foreign key to the Support Structure feature. This field is required if AssetLocation is "Overhead".
UtilityID	Standardized identification name of the electrical corporation. Possible values: <ul> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> <li>SDG&amp;E</li> <li>TBC</li> </ul> This field is required.
AssetLocation	<ul> <li>Where is/are the transformer(s) located? Possible values:</li> <li>Overhead</li> <li>Underground</li> <li>Surface (Padmount)</li> <li>This field is required.</li> </ul>
InaBank	<ul> <li>Does a single point represent multiple assets that exist in a bank arrangement? Possible values:</li> <li>Yes</li> <li>No</li> <li>This field is required.</li> </ul>
QuantityinBank	How many transformers exist in a bank arrangement (if applicable)? This field is required if InaBank is "Yes".
HFTDClass	<ul> <li>The CPUC high-fire threat district (HFTD) area the asset intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values:</li> <li>Tier 3</li> <li>Tier 2</li> <li>Non-HFTD</li> <li>HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap. This field is required.</li> </ul>

### 3.6.2.11 Transformer Detail (Table)

Using a one-to-many relationship, the electrical corporation must add as many records (per transformer site point) as are necessary to provide information about each transformer at the site. For locations with a single transformer, the electrical corporation must use only one record; for locations with a bank of transformers represented by a single point, the electrical corporation must use one record per transformer.

Field Name	Field Description
AssetID	Unique ID for a specific transformer asset. Must be a traceable stable ID within the electrical
	corporation's operations/processes. Primary key for the Transformer Detail table. This
	field is required.
TransformerSiteID	Unique ID for a specific transformer site. Foreign key enabling connection to the
	Transformer Site feature. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
SubstationID	ID of substation associated with asset. Foreign key to the Substation feature. This field is
	required.
HighSideSegmentID	ID of the high side circuit segment associated with asset. Foreign key to the asset line
	feature classes if the electrical corporation has unique persistent segment IDs. A segment
	may be anything more granular than a circuit, including a single span. This field OR
	CircuitID is required.
LowSideSegmentID	ID of the low side circuit segment associated with the asset. Foreign key to the asset line
	feature classes if the electrical corporation has unique persistent segment IDs. A segment
	may be anything more granular than a circuit, including a single span. This field OR
	CircuitID is required.
HighSideLineClass	Class of the high side circuit segment. Possible Values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required if Segment IDs are used.
LowSideLineClass	Class of the low side circuit segment. Possible values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required if Segment IDs are used.

CircuitID	ID of the circuit. Foreign key to the asset line feature classes if the electrical corporation does not have unique persistent segment IDs. This field OR both HighSideSegmentID AND
	LowSideSegmentID is required.
CircuitName	Name of circuit associated with asset. Leave null if there is no unique circuit name that is different than the circuit ID. There is no need to repeat "CircuitID" values in this field. This field is optional.
Phases	Number of phases. This field is required.
AssociatedNominalVoltagekV	Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. This field is required.
Manufacturer	Name of the manufacturer of the transformer. Do not use acronyms or abbreviations for this field unless explained in metadata. This field is required.
ModelNumber	Model number of the asset. This field is required.
LastInspectionDate	Date of the last inspection. This field is required.
LastMaintenanceDate	Date of the last maintenance. This field is required.
InstallationDate	Date the asset was installed. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate OR Estimated Age is
Installationreal	required.
EstimatedAge	The estimated age of the asset in years. Only use this field if the InstallationYear and
	InstallationDate values are unknown. Possible values:
	• 0-9
	• 10-19
	• 20-29
	• 30-39
	• 40-49
	• 50-59
	• 60-69
	• 70-79
	• 80-89
	• 90-99
	• 100+
	". This field OR InstallationDate OR InstallationYear is required.
UsefulLifespan	The number of years an asset is expected to have a useful functioning existence upon initial
	installation. This field is required.
ExemptionStatus	Does the transformer hold equipment that is exempt from Public Resource Code (PRC)
	4292 vegetation clearance requirements? This field is especially important and a high
	priority for Energy Safety and the State of California. Non-exempt equipment requires
	support structure clearance. Possible values:
	• Yes
	• No
	• N/A
	The "N/A" option is only applicable outside of state responsibility area. This field is required.

# 3.6.2.12 Weather Station (Feature Class)

Field Name	Field Description
StationID	Unique ID for the weather station. Must be a traceable stable ID within the electrical corporation's operations/processes. Primary key for the Weather Station feature. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         SCE         SDG&E         TBC         This field is required.
InstallationDate	Date the asset was installed. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. This field OR InstallationDate OR EstimatedAge is required.
EstimatedAge	The estimated age of the asset in years. Only use this field if the InstallationYear         and InstallationDate values are unknown. Possible values:         •       0-9         •       10-19         •       20-29         •       30-39         •       40-49         •       50-59         •       60-69         •       70-79         •       80-89         •       90-99         •       100+         This field OR InstallationDate OR InstallationYear is required.
LastMaintenanceDate	Date of last maintenance. This field is required.
Placement	<ul> <li>Where is the weather station installed? Possible values:</li> <li>Ground</li> <li>Pole</li> <li>This field is required.</li> </ul>

HasAnemometer	Does this weather station include an anemometer? Possible values: <ul> <li>Yes</li> </ul>
	• No
	This field is required.
AnemometerHeight	What is the height of the anemometer above ground to the nearest whole foot, if
	installed? This field is required if the station includes an anemometer.
HasFuelMoistureSensor	Does this weather station include a fuel moisture sensor? Possible values:
	• Yes
	• No
	This field is required.
ObservationInterval	What is the interval between data collections? Possible values:
	• 30 seconds or less
	• 30-60 seconds
	• 1-10 minutes
	• More than 10 minutes
	This field is required.
NFDRSCompliant	Does the weather station meet National Fire Danger Rating System
	(NFDRS) standards? Possible values:
	• Yes
	• No
	Current standards can be found at <u>https://raws.nifc.gov/standards-guidelines.</u> This field is required.
WeatherStationURL	Website address for weather station information (if publicly available). This field
	is required if information for the station is available online.
HFTDClass	The CPUC high-fire threat district (HFTD) area the asset intersects. For these data,
	anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record
	any Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is
	required.

### **3.6.3 Initiative (Feature Dataset)**

In general, for all initiatives, if the units for targets and progress do not match the geometry of the feature (e.g., grid hardening targets is in line miles, but work is tracked by poles submitted as points), the electrical corporation must explain in metadata how the target and progress values are calculated. Alternatively, the electrical corporation can elect to submit duplicate features (e.g., as points and as line) for the same initiative. If the electrical corporation reports the same Initiative in more than one feature, it must identify the duplicate initiatives in metadata, and the initiative targets, progress, and units do not need to be reported in both features, but only the feature with matching geometry (e.g., if target units are a number of trees, report in points – if target units are miles of line, report in line, etc.).

#### 3.6.3.1 Asset Inspections

#### 3.6.3.1.1 Overview for Asset Inspections

For asset inspections, Energy Safety provides template feature classes for points, lines, and polygons in case the electrical corporation records asset inspection data in any of these geometries. The electrical corporation must submit asset inspection data recorded in these formats. However, if the electrical corporation records asset inspection data in one format but not another (e.g., points but not polygons), it does not have to convert existing data to another geometry, unless specifically requested to do so by Energy Safety. If the electrical corporation does not record any asset inspection data in any geospatial geometry, it must start recording asset inspection GIS geometry data going forward. With each quarterly data submission, the electrical corporation must submit data for inspections which were either active or completed within the reporting period (i.e., the previous quarter), and data for inspections planned for the next quarter (i.e., the following reporting period).

Activities reported in these feature classes must be *only* inspections. If there is a single activity which comprises both inspecting and repairing, refurbishing, or replacing equipment, report that activity using the appropriate Grid Hardening feature.

Photos are encouraged but optional for asset inspections. If submitting asset inspection photos, the electrical corporation must only submit them for cases where inspections reveal issues (e.g., regulatory non-compliance, fire risk hazards, etc.). If an asset inspection reveals issues, and corrective action is taken, best practice is to take a photo of the inspection issue before and after the action. When before and after photos are taken for points, the electrical corporation must populate the "PhotoID," "IsBeforeAfter," and "AiID" fields of the "Initiative Photo Log" related table. For line and polygon inspection data, the electrical corporation must take photos at an interval of one "before" photo and one "after" photo per span involved with an inspection. If an issue is discovered, and the electrical corporation must still populate the "PhotoBeforeID" and "VmiID" or "AiID" fields prior to submission.

Field Name	Field Description
AilD	Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection Line feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         SCE         SDG&E         TBC         This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the Utility Initiative Tracking ID field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	<ul> <li>Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary.</li> <li>Possible values: <ul> <li>Regulatory</li> <li>Discretionary</li> </ul> </li> <li>This field is required.</li> </ul>
SegmentID	ID of specific circuit segment inspected. Foreign key to the Asset Line feature classes if the electrical corporation has persistent unique segment IDs. A segment may be anything more granular than a circuit, including a single span. This field is required IF the inspection activity represented by the point is focused on conductor AND the electrical corporation has persistent stable IDs for circuit segments.
CircuitID	ID of specific circuit inspected. Foreign key to the Asset Line feature classes if the electrical corporation does not have persistent unique segment IDs. This field is required IF the inspection activity represented by the point is focused on conductor AND SegmentID is not populated.
LineClass	<ul> <li>Identifies the feature class where the Segment ID should be found. Possible values:</li> <li>Transmission Line</li> <li>Primary Distribution Line</li> <li>Secondary Distribution Line</li> <li>This field is required IF the inspection activity represented by the line is focused on conductor.</li> </ul>
InspectionLocationOrAddress	Address or location description for the inspection location. This field is optional.
WMPInitiativeActivity	More specific description of initiative activity. See <i>Appendix C. WMP Initiative Classification</i> . May add new activity descriptions not in that list.

#### 3.6.3.1.2 Asset Inspection Line (Feature Class)

InspectionProgramName	Inspection program name for the inspection. This must match the program name as specified in the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This
	field is required.
InspectionStatus	Status of the asset inspection. Possible Values:
	• Planned
	In progress
	Complete
	This field is required.
InspectionStartDate	The date when an asset inspection began. If exact date is not known, may
	approximate as first day of the month in which inspection began. This field is required
	IF InspectionStatus is "In progress" OR "Complete".
InspectionEndDate	The date when an asset inspection was completed. If the asset inspection was started
	and completed on the same day, "InspectionStartDate" and "InspectionEndDate" will
	have the same value. If exact date is not known, may approximate as last day of the
	month in which inspection was completed. This field is required IF InspectionStatus is
	"Complete".
PerformedBy	Who performed the asset inspection? Possible values:
	Utility staff
	Contractor
	Other, see comment
	This field is required.
PerformedByComment	Inspector description not listed in the options above. This field is required IF
	PerformedBy is "Other, see comment".
InspectionType	The type of asset inspection performed. Possible values:
	Patrol
	Detailed
	Pole loading
	• Other, see comment
	This field is required.
InspectionTypeComment	Inspection type description not listed in the options above. This field is required IF
In an antion Commont	InspectionType is "Other, see comment"
InspectionComment	Additional comments related to the asset management inspection. This field is
FindingL1	optional. Number of Level 1 findings per GO 95 rule 18-B1. This field is required.
FindingL2	Number of Level 2 findings per GO 95 rule 18-B1. This field is required.
FindingL3	Number of Level 3 findings per GO 95 rule 18-B1. This field is required.

InspectionMethod	The method by which the asset inspection was conducted. Possible values:
Inspectionmethod	Ground inspection
	Climbing
	Lift/bucket truck
	Aerial: drone
	Aerial: helicopter
	Aerial: fixed wing
	Other, see comment
	"Aerial - drone" should be used for all unmanned aerial vehicles regardless of
	configuration (rotor vs. fixed-wing). "Lift/bucket truck" should be used for any similar
	methods. "Ground inspection" should be understood not to involve any climbing or
	lifting equipment or drone technology. This field is required.
InspectionMethodComment	Inspection method not listed in the options above-or multiple inspection methods
	listed in the options above. If multiple, list all values separated by commas. This field is
	required IF InspectionMethod is "Other, see comment".
DataCaptureSensorType	Type of sensor used to record data during the inspection, if any. Do not identify sensors
	used only for real-time visualization during the inspection. Possible values:
	• None
	Aerial laser scanning
	Terrestrial laser scanning
	Aerial imagery (visible)
	Aerial imagery (thermal)
	Other, see comment
	This field is required.
DataCaptureSensorTypeComment	Type of sensor other than those identified as options in the Data Capture Sensor Type
	field. This field is required IF DataCaptureSensorType is "Other, see comment".
HFTDClass	The CPUC High Fire Threat District (HFTD) area that the asset inspection intersects. For
	these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not
	record any Zone 1 or Tier 1 values. If a data line spans multiple HFTD areas, list them
	under the "HFTDClassComment" field. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	• Multiple, see comment
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is
	required.
FieldNotes	Any additional notes, particularly from field workers. This field is optional.
HFTDClassComment	If the project line intersects multiple HFTD areas, list all of them here. This field is
	required IF HFTDClass is "Multiple, see comment".

## 3.7.3.1.3 Asset Inspection Point (Feature Class)

Field Name	Field Description
AiID	Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection
	Point feature class. This field is required.

UtilityID	Standardized identification name of the electrical corporation. Possible values: <ul> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> <li>SDG&amp;E</li> <li>TBC</li> </ul> This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the Utility Initiative Tracking ID field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	<ul> <li>Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary.</li> <li>Possible values:         <ul> <li>Regulatory</li> <li>Discretionary</li> </ul> </li> <li>This field is required.</li> </ul>
AssetID	Unique ID for a specific point asset. Foreign key to all the related Asset Point feature class attribute tables. For Support Structure, use Support Structure ID. For Transformer Site, use Transformer Site ID. This field is required IF the inspection activity represented by the point is focused on an individual asset recorded as a point in data submitted to Energy Safety.
AssetFeature	Identifies the feature class where the asset ID should be found. Possible values:         Camera         Connection Device         Fuse         Lightning Arrester         Substation         Support Structure         Switchgear         Transformer Site         Weather Station         This field is required IF the inspection activity represented by the point is focused on an individual asset recorded as a point in data submitted to Energy Safety.
SegmentID	ID of specific circuit segment inspected, if any. Foreign key to the Asset Line feature classes if the electrical corporation has persistent unique segment IDs. A segment may be anything more granular than a circuit, including a single span. This field is required IF the inspection activity represented by the point is focused on conductor AND the electrical corporation has persistent stable IDs for circuit segments.

CircuitID	ID of specific circuit inspected, if any. Foreign key to the Asset Line feature classes if the electrical corporation does not have persistent unique segment IDs. This field is
	required IF the inspection activity represented by the point is focused on conductor
LineClass	AND SegmentID is not populated. Identifies the feature class where the Segment or Circuit ID should be found. Possible values:
	<ul> <li>Transmission Line</li> <li>Primary Distribution Line</li> <li>Secondary Distribution Line</li> </ul>
	This field is required IF the inspection activity represented by the point is focused on conductor.
InspectionLocationOrAddress	Address or location description for the inspection location. This field is optional.
WMPInitiativeActivity	More specific description of initiative activity. See <i>Appendix C. WMP Initiative Classification</i> . May add new activity descriptions not in that list. This field is required.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.3 of the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
InspectionStatus	Status of the asset inspection. Possible Values: <ul> <li>Planned</li> <li>In progress</li> <li>Complete</li> </ul>
UnitsRepresented	<ul> <li>This field is required.</li> <li>The number of initiative target units represented by the point if more than 1. For example, the EC may represent multiple assets inspected at a single location with one point. The EC may enter "1" if desired, however, this is not necessary, as blank (null, values will also be interpreted as representing a single unit. This field is required IF the point represents more than one target unit.</li> </ul>
InspectionStartDate	The date when an asset inspection began. If exact date is not known, may approximate as first day of the month in which inspection began. This field is required IF InspectionStatus is "In progress" OR "Complete".
InspectionEndDate	The date when an asset inspection was completed. If the asset inspection was started and completed on the same day, "InspectionStartDate" and "InspectionEndDate" will have the same value. If exact date is not known, may approximate as last day of the month in which inspection was completed. This field is required IF InspectionStatus is "Complete".
PerformedBy	<ul> <li>Who performed the asset inspection? Possible values:</li> <li>Utility staff</li> <li>Contractor</li> <li>Other, see comment</li> <li>This field is required.</li> </ul>
PerformedByComment	Inspector description not listed in the options above. This field is required IF PerformedBy is "Other, see comment".

InspectionType	The type of asset inspection performed. Possible values:
	Patrol
	Detailed
	Pole loading
	• Other, see comment
	This field is required.
InspectionTypeComment	Inspection type description not listed in the options above. This field is required If InspectionType is "Other, see comment"
InspectionComment	Additional comments related to the asset management inspection. This field is optional.
FindingL1	Number of Level 1 findings per GO 95 rule 18-B1. This field is required.
FindingL2	Number of Level 2 findings per GO 95 rule 18-B1. This field is required.
FindingL3	Number of Level 3 findings per GO 95 rule 18-B1. This field is required.
InspectionMethod	The method by which the asset inspection was conducted. Possible values:
	Ground inspection
	Climbing
	Lift/bucket truck
	Aerial: drone
	Aerial: helicopter
	Aerial: fixed wing
	Other, see comment
	"Aerial - drone" should be used for all unmanned aerial vehicles regardless o
	configuration (rotor vs. fixed-wing). "Lift/bucket truck" should be used for any simila
	methods. "Ground inspection" should be understood not to involve any climbing o
	lifting equipment or drone technology. This field is required.
InspectionMethodComment	Inspection method not listed in the options above-or multiple inspection method
	listed in the options above. If multiple, list all values separated by commas. This field i
	required IF InspectionMethod is "Other, see comment".
DataCaptureSensorType	Type of sensor used to record data during the inspection, if any. Do not identify sensor
	used only for real-time visualization during the inspection. Possible values:
	None
	Aerial laser scanning
	Terrestrial laser scanning
	Aerial imagery (visible)
	Aerial imagery (thermal)
	Other, see comment
	This field is required.
DataCaptureSensorTypeComment	Type of sensor other than those identified as options in the Data Capture Sensor Type
	field. This field is required IF DataCaptureSensorType is "Other, see comment".

HFTDClass	The CPUC high-fire threat district (HFTD) area the asset inspection intersects. For this
	data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record
	any Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is
	required.

## 3.6.3.1.4 Asset Inspection Polygon (Feature Class)

Field Name	Field Description
AilD	Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection
	Polygon feature class. This field is required.
UtilityID	<ul> <li>Standardized identification name of the electrical corporation. Possible values:</li> <li>BVES</li> <li>HWT</li> </ul>
	<ul><li>Liberty</li><li>LS Power</li></ul>
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the Utility Initiative Tracking ID field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	<ul> <li>Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary.</li> <li>Possible values: <ul> <li>Regulatory</li> <li>Discretionary</li> </ul> </li> <li>This field is required.</li> </ul>
AssetID	Unique ID for a specific point asset. Foreign key to all the related Asset Point feature class attribute tables. For Support Structure, use Support Structure ID. For Transformer Site, use Transformer Site ID. This field is required IF the inspection activity represented by the point is focused on an individual asset recorded as a point in data submitted to Energy Safety.

AssetFeature	Identifies the feature class where the asset ID should be found. Possible values: <ul> <li>Camera</li> <li>Connection Device</li> <li>Fuse</li> <li>Lightning Arrester</li> <li>Substation</li> <li>Support Structure</li> </ul>
	<ul> <li>Switchgear</li> <li>Transformer Site</li> <li>Weather Station</li> <li>This field is required IF the inspection activity represented by the point is focused on</li> </ul>
	an individual asset recorded as a point in data submitted to Energy Safety.
SegmentID	ID of specific circuit segment inspected, if any. Foreign key to the Asset Line feature classes if the electrical corporation has persistent unique segment IDs. A segment may be anything more granular than a circuit, including a single span. This field is
	required IF the inspection activity represented by the point is focused on conductor
CircuitID	<ul> <li>AND the electrical corporation has persistent stable IDs for circuit segments.</li> <li>ID of specific circuit inspected, if any. Foreign key to the Asset Line feature classes if</li> <li>the electrical corporation does not have persistent unique segment IDs. This field is</li> <li>required IF the inspection activity represented by the point is focused on conductor</li> <li>AND SegmentID is not populated.</li> </ul>
LineClass	Identifies the feature class where the Segment or Circuit ID should be found. Possible values:         • Transmission Line         • Primary Distribution Line         • Secondary Distribution Line
	This field is required IF the inspection activity represented by the polygon is focused on conductor.
WMPInitiativeActivity	More specific description of initiative activity. See <i>Appendix C. WMP Initiative</i> <i>Classification</i> . May add new activity descriptions not in that list. This field is required.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.1.3 of the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
InspectionStatus	Status of the asset inspection. Possible Values: <ul> <li>Planned</li> <li>In progress</li> <li>Complete</li> </ul> This field is required.
InspectionStartDate	The date when an asset inspection began. If exact date is not known, may approximate as first day of the month in which inspection began. This field is required IF InspectionStatus is "In progress" OR "Complete".
InspectionEndDate	The date when an asset inspection was completed. If the asset inspection was started and completed on the same day, "InspectionStartDate" and "InspectionEndDate" will have the same value. If exact date is not known, may approximate as last day of the month in which inspection was completed. This field is required IF InspectionStatus is "Complete".

PerformedBy	Who performed the asset inspection? Possible values:
	Utility staff
	Contractor
	Other, see comment
	This field is required.
PerformedByComment	Inspector description not listed in the options above. This field is required IF "PerformedBy" is "Other, see comment".
InspectionType	The type of asset inspection performed. Possible values:
	Patrol
	Detailed
	Pole loading
	Other, see comment
	This field is required.
InspectionTypeComment	Inspection type description not listed in the options above. This field is required IF InspectionType is "Other, see comment"
InspectionComment	Additional comments related to the asset management inspection. This field is optional.
FindingL1	Number of Level 1 findings per GO 95 rule 18-B1. This field is required.
FindingL2	Number of Level 2 findings per GO 95 rule 18-B1. This field is required.
FindingL3	Number of Level 3 findings per GO 95 rule 18-B1. This field is required.
InspectionMethod	The method by which the asset inspection was conducted. Possible values:
inspectionmethod	Ground inspection
	Climbing
	Lift/bucket truck
	Aerial: drone
	Aerial: helicopter
	Aerial: fixed wing
	Other, see comment
	"Aerial: drone" should be used for all unmanned aerial vehicles regardless of
	configuration (rotor vs. fixed-wing). "Lift/bucket truck" should be used for any similar
	methods. "Ground inspection" should be understood not to involve any climbing or
	lifting equipment or drone technology. This field is required.
InspectionMethodComment	Inspection method not listed in the options above—or multiple inspection methods
	listed in the options above. If multiple, list all values separated by commas. This field is
	required IF InspectionMethod is "Other, see comment".
DataCaptureSensorType	Type of sensor used to record data during the inspection, if any. Do not identify sensors
	used only for real-time visualization during the inspection. Possible values:
	None
	Aerial laser scanning
	Terrestrial laser scanning
	Aerial imagery (visible)
	Aerial imagery (thermal)
	Other, see comment
	This field is required.

DataCaptureSensorTypeComment	Type of sensor other than those identified as options in the Data Capture Sensor Type field. This field is required IF DataCaptureSensorType is "Other, see comment".
FieldNotes	Any additional notes, particularly from field workers. This field is optional.
HFTDClass	The CPUC High Fire Threat District (HFTD) area that the asset inspection intersects. For this data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. If a data polygon spans multiple HFTD areas, list them under the "HFTDClassComment" field. Possible values: • Tier 3 • Tier 2 • Non-HFTD • Multiple, see comment HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.
HFTDClassComment	If a project polygon intersects multiple HFTD areas, list all of them here. This field is required IF HFTDClass is "Multiple, see comment".

### 3.6.3.2 Grid Hardening

#### 3.6.3.2.1 Overview for Grid Hardening

Examples of the types of grid hardening for which the electrical corporation must provide GIS data include, undergrounding, covering conductors, wrapping poles with fire resistant material, and equipment replacements and additions (e.g., adding switchgear assets to minimize the scope of PSPS events, replacing old wooden poles with poles made of fire-resistant materials, etc.).

For grid hardening initiatives, Energy Safety provides template feature classes for points and lines in case the electrical corporation records grid hardening data in either of these geometries. Any grid hardening data recorded in these formats must be submitted. However, if the electrical corporation records grid hardening data in one format but not another (e.g., points but not lines), it does not have to convert existing data to another geometry unless specifically requested to do so by Energy Safety. If the electrical corporation does not record any grid hardening data in any geospatial geometry, it must start recording grid hardening GIS geometry data going forward. With each quarterly data submission, the electrical corporation must submit data for grid hardening projects which were either active or completed within the reporting period (i.e., the previous quarter), and data for grid hardening projects planned for the next quarter (i.e., the following reporting period).

Work reported in these feature classes must clearly distinguish between maintenance, repair, refurbishment, and replacement. Use the Description of Work and/or Field Notes fields as needed where a single initiative activity may comprise more than one of these types of work.

Photos are encouraged but optional for grid hardening projects. If submitting grid hardening photos, the electrical corporation must populate the "PhotoID," "IsBeforeAfter," and "GhID"

fields in the "Initiative Photo Log" related table to ensure photos can be linked to their associated records in these features.

Field Name	Field Description
GhID	Unique ID or job ID of a grid hardening activity. Primary key for the Grid Hardening Line feature class. This field is required.
Accette costion	
AssetLocation	Is the asset overhead or underground? Possible values:
	Overhead
	Underground
	• Surface (Padmount)
	This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID
	must match the Utility Initiative Tracking ID field for the same initiative in all QDF
	submissions for the initiative(s) entire lifecycle. This field should remain static even in
	WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This
	field is required.
SegmentID	ID of specific circuit segment on which work was done. Foreign key to the Asset Line
	feature classes if the electrical corporation has persistent unique segment IDs. A
	segment may be anything more granular than a circuit, including a single span. This
	field is required IF the inspection activity represented by the point is focused on
	conductor AND the electrical corporation has persistent stable IDs for circuit segments.
CircuitID	ID of specific circuit on which work was done. Foreign key to the Asset Line feature
	classes if the electrical corporation does not have persistent unique segment IDs. This
	field is required IF the inspection activity represented by the point is focused on
	conductor AND SegmentID is not populated.
LineClass	Identifies the feature class where the Segment or Circuit ID should be found. Possible
	values:
	<ul><li>Transmission Line</li><li>Primary Distribution Line</li></ul>
	Secondary Distribution Line
	This field is required IF the inspection activity represented by the point is focused on
	conductor.
GridHardeningLocationOrAddress	Address or location description for the grid hardening location. This field is optional.

#### 3.6.3.2.2 Grid Hardening Line (Feature Class)

WMPInitiativeActivity	More specific description of initiative activity. See <i>Appendix C. WMP Initiative Classification</i> . May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
DescriptionOfWork	Additional description of the grid hardening work. This field is optional.
FieldNotes	Any additional notes, particularly from field workers. This field is optional.
GhStatus	<ul> <li>The status of the grid hardening activity. Possible values:</li> <li>Planned</li> <li>In progress</li> <li>Complete</li> <li>This field is required.</li> </ul>
StartDate	Start date of the grid hardening project. If exact date is not known, may approximate as first day of the month in which project began. This field is required IF InspectionStatus is "In progress" OR "Complete".
EndDate	Completion date of the grid hardening project. If exact date is not known, may approximate as last day of month in which project was completed. This field is required IF InspectionStatus is "Complete".
LineDeenergized	<ul> <li>Do lines need to be de-energized to perform the work? Possible values:</li> <li>Yes</li> <li>No</li> </ul>
PerformedBy	This field is required. Who performed the grid hardening activity? Possible values: Utility staff Contractor Other, see comment This field is required.
PerformedByComment	Entity that performed grid hardening and is not listed in options above. This field is required IF PerformedBy is "Other, see comment".
HFTDClass	The CPUC High Fire Threat District (HFTD) area that the grid hardening project intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. If a data line spans multiple HFTD areas, list them under the "HFTDClassComment" field. Possible values:         • Tier 3         • Tier 2         • Non-HFTD         • Multiple, see comment         HFTD data can be downloaded from: <a href="https://ia.cpuc.ca.gov/firemap">https://ia.cpuc.ca.gov/firemap</a> . This field is required.
HFTDClassComment	If the project line intersects multiple HFTD areas, list all of them here. This field is required IF HFTDClass is "Multiple, see comment".

#### 3.6.3.2.3 Grid Hardening Point (Feature Class)

Field Name         Field Description
--------------------------------------

GhID	Unique ID or job ID of a grid hardening activity. Primary key for the Grid Hardening Point feature class. This field is required.
AssetLocation	Is the asset overhead or underground? Possible values: <ul> <li>Overhead</li> <li>Underground</li> <li>Surface (Padmount)</li> </ul> This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC         This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the Utility Initiative Tracking ID field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
AssetID	Unique ID for a specific point asset. Foreign key to all the related Asset Point feature class attribute tables. For Support Structure, use Support Structure ID. For Transformer Site, use Transformer Site ID. This field is required IF the inspection activity represented by the point is focused on an individual asset recorded as a point in data submitted to Energy Safety.
AssetFeature	Identifies the feature class where the asset ID should be found. Possible values:         Camera         Connection Device         Fuse         Lightning Arrester         Substation         Support Structure         Switchgear         Transformer Site         Weather Station         This field is required IF the inspection activity represented by the point is focused on an individual asset recorded as a point in data submitted to Energy Safety.
SegmentID	ID of specific circuit segment inspected, if any. Foreign key to the Asset Linefeature classes if the electrical corporation has persistent unique segment IDs. Asegment may be anything more granular than a circuit, including a single span.This field is required IF the inspection activity represented by the point is focusedon conductor AND the electrical corporation has persistent stable IDs for circuitsegments.

CircuitID	ID of specific circuit inspected, if any. Foreign key to the Asset Line feature
	classes if the electrical corporation does not have persistent unique segment IDs.
	This field is required IF the inspection activity represented by the point is focused
	on conductor AND SegmentID is not populated.
LineClass	Identifies the feature class where the Segment or Circuit ID should be found.
	Possible values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required IF the inspection activity represented by the point is focused
	on conductor.
GridHardeningLocationOrAddress	Address or location description for the grid hardening location. This field is
	optional.
WMPInitiativeActivity	More specific description of initiative activity. See Appendix C. WMP Initiative
	Classification. May add new activity descriptions not in that list. This field is
	required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative.
	This field is required.
DescriptionOfWork	Additional description of the grid hardening work. This field is optional.
FieldNotes	Any additional notes, particularly from field workers. This field is optional.
GhStatus	The status of the grid hardening activity. Possible values:
	Planned
	In progress
	Complete
	This field is required.
UnitsRepresented	The number of initiative target units represented by the point if more than 1. For
	example, the EC may represent multiple assets replaced at a single location with
	one point. The EC may enter "1" if desired, however, this is not necessary, as blank
	(null) values will also be interpreted as representing a single unit. This field is
	required IF the point represents more than one target unit.
StartDate	Start date of the grid hardening project. If exact date is not known, may
StartDate	approximate as first day of the month in which project began. This field is
	required IF InspectionStatus is "In progress" OR "Complete".
EndDate	Completion date of the grid hardening project. If exact date is not known, may
	approximate as last day of month in which project was completed. Not required
	for projects which are in progress. This field is required IF InspectionStatus is
	"Complete".
LineDeenergized	Do lines need to be de-energized to perform the work? Possible values:
	• Yes
	• No
	This field is required.

PerformedBy	<ul> <li>Who performed the grid hardening activity? Possible values:</li> <li>Utility staff</li> <li>Contractor</li> <li>Other, see comment</li> <li>This field is required.</li> </ul>
PerformedByComment	Entity that performed grid hardening and is not listed in options above. This field is required IF PerformedBy is "Other, see comment".
HFTDClass	<ul> <li>The CPUC high-fire threat district (HFTD) area the grid hardening project intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values:</li> <li>Tier 3</li> <li>Tier 2</li> <li>Non-HFTD</li> <li>HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap. This field is required.</li> </ul>

### 3.6.3.3 Initiative Audits

#### 3.6.3.3.1 Overview for Initiative Audits

The electrical corporation must report all audits of asset inspections, grid hardening work, vegetation management inspections, and vegetation management projects described in the electrical corporation's approved WMP (see applicable WMP Guidelines for requirements to describe QA/QC including audits). Templates for points, lines, and polygons are provided for flexibility; the electrical corporation is not required to report audits in geometry that matches the original inspection or project.

Field Name	Field Description
lald	Unique ID or job ID of an Initiative Audit. Primary key for the Initiative Audit Point feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC         This field is required.

#### 3.6.3.3.2 Initiative Audit Line

InitiativeFeature	What type of initiative was audited? Identifies the feature where the Initiative ID will be found.
	Possible values:
	Asset Inspection Point
	Asset Inspection Line
	Asset Inspection Polygon
	Grid Hardening Point
	Grid Hardening Line
	Vegetation Inspection Point
	Vegetation Inspection Line
	Vegetation Inspection Polygon
	Vegetation Management Project Point
	Vegetation Management Project Line
	Vegetation Management Project Polygon
	This field is required.
InitiativeID	Unique ID of the initiative activity that was audited. Foreign key to the initiative features. This
	field is required.
UtilityInitiativeTrackingID	Tracking ID of the initiative that was audited. This field is required.
AuditDate	Date of the audit. This field is required.
ActivityDate	Date of the original activity that was audited. This field is required.
AssetType	Type of asset for the original activity that was audited. OK to list multiple if the original
	activity involved different asset types. This field is required.
Result	What was the result of the audit? Possible values:
	No issues
	Issues identified
	This field is required.
Description	Provide any available details about the audit results. This field is optional.
PerformedBy	Who performed the audit? Possible values:
	Utility staff
	Contractor
	Other, see comment
	This field is required.
PerformedByComment	Entity that performed grid hardening and is not listed in options above. This field is required
	IF PerformedBy is "Other, see comment".

#### 3.6.3.3.3 Initiative Audit Point

Field Name	Field Description
laID	Unique ID or job ID of an Initiative Audit. Primary key for the Initiative Audit Point feature
	class. This field is required.

UtilityID	Standardized identification name of the electrical corporation. Possible values:
	BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
InitiativeFeature	What type of initiative was audited? Identifies the feature where the Initiative ID will be found.
	Possible values:
	Asset Inspection Point
	Asset Inspection Line
	Asset Inspection Polygon
	Grid Hardening Point
	Grid Hardening Line
	Vegetation Inspection Point
	Vegetation Inspection Line
	Vegetation Inspection Polygon
	Vegetation Management Project Point
	Vegetation Management Project Line
	Vegetation Management Project Polygon
	This field is required.
InitiativeID	Unique ID of the initiative activity that was audited. Foreign key to the initiative features. This field is required.
UtilityInitiativeTrackingID	Tracking ID of the initiative that was audited. This field is required.
AuditDate	Date of the audit. This field is required.
ActivityDate	Date of the original activity that was audited. This field is required.
AssetType	Type of asset for the original activity that was audited. OK to list multiple if the original
	activity involved different asset types. This field is required.
Result	What was the result of the audit? Possible values:
	No issues
	Issues identified
	This field is required.
Description	Provide any available details about the audit results. This field is optional.
PerformedBy	Who performed the audit? Possible values:
	Utility staff
	Contractor
	Other, see comment
	This field is required.
PerformedByComment	Entity that performed grid hardening and is not listed in options above. This field is required
-	IF PerformedBy is "Other, see comment".

# 3.6.3.3.4 Initiative Audit Polygon

Field Name	Field Description
lald	Unique ID or job ID of an Initiative Audit. Primary key for the Initiative Audit Point feature
	class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	• BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
InitiativeFeature	What type of initiative was audited? Identifies the feature where the Initiative ID will be found.
	Possible values:
	Asset Inspection Point
	Asset Inspection Line
	Asset Inspection Polygon
	Grid Hardening Point
	Grid Hardening Line
	Vegetation Inspection Point
	Vegetation Inspection Line
	Vegetation Inspection Polygon
	Vegetation Management Project Point
	Vegetation Management Project Line
	Vegetation Management Project Polygon
	This field is required.
InitiativeID	Unique ID of the initiative activity that was audited. Foreign key to the initiative features. This
	field is required.
UtilityInitiativeTrackingID	Tracking ID of the initiative that was audited. This field is required.
AuditDate	Date of the audit. This field is required.
ActivityDate	Date of the original activity that was audited. This field is required.
AssetType	Type of asset for the original activity that was audited. OK to list multiple if the original
	activity involved different asset types. This field is required.
Result	What was the result of the audit? Possible values:
	No issues
	Issues identified
	This field is required.

PerformedBy	Who performed the audit? Possible values:
	Utility staff
	Contractor
	Other, see comment
	This field is required.
PerformedByComment	Entity that performed grid hardening and is not listed in options above. This field is required
	IF PerformedBy is "Other, see comment".

## 3.6.3.4 Other Initiatives

### 3.6.3.4.1 Overview

The electrical corporation may utilize these feature classes and the related table to provide any spatial data it has on initiatives which do not fit into one of the previous classes. The electrical corporation may submit photos for initiatives in these feature classes. If the electrical corporation submits photos for these feature classes, it must populate the "PhotoID," "IsBeforeAfter," and "GhID" fields in the "Initiative Photo Log" table to ensure photos can be linked to its associated records in these features.

Field Name	Field Description
OilD	Unique ID or job ID of an Other Initiative. Primary key for the Other Initiative Line feature class.
	This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	• BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must
	match the Utility Initiative Tracking ID field for the same initiative in all QDR submissions for
	the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category,
	WMP Initiative Activity, or WMP Section numbers change. This field is required.
LocationOrAddress	Address or location description for the activity. This field is optional.
WMPInitiativeCategory	Broad category for the initiative. Use categories listed in Appendix C. WMP Initiative
	Classification.
	This field is required.
WMPInitiativeActivity	More specific description of initiative activity. See Appendix C. WMP Initiative Classification.
	May add new activity descriptions not in that list. This field is required.

### 3.6.3.4.2 Other Initiative Line (Feature Class)

WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is
	required.
OiStatus	The status of the activity. Possible values:
	Planned
	In progress
	Complete
	This field is required.
StartDate	Start date of the grid hardening project. If exact date is not known, may approximate as first
	day of the month in which project began. This field is required IF InspectionStatus is "In
	progress" OR "Complete".
EndDate	Completion date of the grid hardening project. If exact date is not known, may approximate
	as last day of month in which project was completed. Not required for projects which are in
	progress. This field is required IF InspectionStatus is "Complete".
OiComment	Any comments about the initiative. This field is optional.
HFTDClass	The CPUC high-fire threat district (HFTD) area the grid hardening project intersects. For these
	data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any
	Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	Multiple, see comment
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.
HFTDClassComment	If the project line intersects multiple HFTD areas, list all of them here. This field is required IF
	HFTDClass is "Multiple, see comment".

## 3.6.3.4.3 Other Initiative Point (Feature Class)

Field Name	Field Description
OilD	Unique ID or job ID of an Other Initiative activity. Primary key for the Other Initiative Point feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC
UtilityInitiativeTrackingID	<ul> <li>This field is required.</li> <li>The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the Utility Initiative Tracking ID field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.</li> </ul>
LocationOrAddress	Address or location description for the activity. This field is optional.

WMPInitiativeCategory	Broad category for the initiative. Use categories listed in Appendix C. WMP Initiative
	Classification.
	This field is required.
WMPInitiativeActivity	More specific description of initiative activity. See Appendix C. WMP Initiative Classification.
	May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is
	required.
OiStatus	The status of the activity. Possible values:
	• Planned
	In progress
	Complete
	This field is required.
StartDate	Start date of the grid hardening project. If exact date is not known, may approximate as first
	day of the month in which project began. This field is required IF InspectionStatus is "In
	progress" OR "Complete".
EndDate	Completion date of the grid hardening project. If exact date is not known, may approximate
	as last day of month in which project was completed. Not required for projects which are in
	progress. This field is required IF InspectionStatus is "Complete".
OiComment	Any comments about the initiative. This field is optional.
HFTDClass	The CPUC high-fire threat district (HFTD) area the grid hardening project intersects. For these
	data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any
	Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.

## 3.6.3.4.4 Other Initiative Polygon (Feature Class)

Field Name	Field Description
Oild	Unique ID or job ID of an Other Initiative activity. Primary key for the Other Initiative Polygon feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC         This field is required.

UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the Utility Initiative Tracking ID field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
LocationOrAddress	Address or location description for the activity. This field is optional.
WMPInitiativeCategory	Broad category for the initiative. Use categories listed in <i>Appendix C. WMP Initiative Classification</i> . This field is required.
WMPInitiativeActivity	More specific description of initiative activity. See <i>Appendix C. WMP Initiative Classification</i> . May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
OiStatus	<ul> <li>The status of the activity. Possible values:</li> <li>Planned</li> <li>In progress</li> <li>Complete</li> <li>This field is required.</li> </ul>
StartDate	Start date of the grid hardening project. If exact date is not known, may approximate as first day of the month in which project began. This field is required IF InspectionStatus is "In progress" OR "Complete".
EndDate	Completion date of the grid hardening project. If exact date is not known, may approximate as last day of month in which project was completed. Not required for projects which are in progress. This field is required IF InspectionStatus is "Complete".
OiComment	Any comments about the initiative. This field is optional.
HFTDClass	The CPUC high-fire threat district (HFTD) area the grid hardening project intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: • Tier 3 • Tier 2 • Non-HFTD • Multiple, see comment
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.
HFTDClassComment	If the project line intersects multiple HFTD areas, list all of them here. This field is required IF HFTDClass is "Multiple, see comment".

## 3.6.3.5 Vegetation Inspections

### 3.6.3.5.1 Overview for Vegetation Inspections

In the context of these requirements, vegetation inspections are focused on inspecting the state of vegetation near electrical assets whereas vegetation management projects involve the physical manipulation of vegetation (clearing, thinning, etc.). For vegetation inspections, Energy Safety provided template feature classes for points, lines, and polygons in case the electrical corporation records vegetation inspection data in any of these geometries. Any vegetation inspection data recorded in these formats must be submitted. However, if the

electrical corporation records inspection data in one format but not another (e.g., points but not polygons), it does not have to convert existing data to another geometry, unless specifically requested to do so by Energy Safety. If the electrical corporation does not record any vegetation inspection data in any geospatial geometry, it must start recording vegetation inspection GIS geometry data going forward. With each quarterly data submission, the electrical corporation must submit data for inspections which were either active or completed within the reporting period (i.e., the previous quarter), and data for inspections planned for the next quarter (i.e., the following reporting period).

The electrical corporation may submit photos for vegetation inspections. If the electrical corporation submits vegetation inspection photos, it must only submit vegetation inspection photos for cases where inspections reveal issues (e.g., regulatory non-compliance, fire risk hazards, etc.). If a vegetation inspection reveals issues, and corrective action is taken, best practice is to take a photo of the inspection issue before and after the action. When before and after photos are taken for points, populate the "PhotoID," "IsBeforeAfter," and "VmiID" fields of the "Initiative Photo Log" related table. For line and polygon inspection data, best practice is to take photos at an interval of one "before" photo and one "after" photo per span involved with an inspection. For lines and polygons, the "FromDevice" and "ToDevice" fields in the "Initiative Photo Log" table should also be filled in to identify the specific spans where photos were taken. If an issue is discovered, and the electrical corporation will not take corrective action until after the next data submission, the electrical corporation must still populate the "PhotoBeforeID" and "VmiID" fields prior to submission.

Field Name	Field Description
VmiID	Unique ID or job ID of a vegetation inspection activity. Primary key for the Vegetation
	Inspection Line feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	• BVES
	• HWT
	• Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID
	must match the "Utility Initiative Tracking I" field for the same initiative in all QDR
	submissions for the initiative(s) entire lifecycle. This field should remain static even if
	WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This
	field is required.

### 3.6.3.5.2 Vegetation Inspection Line (Feature Class)

InitiativeClass	<ul> <li>Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary.</li> <li>Possible values: <ul> <li>Regulatory</li> <li>Discretionary</li> </ul> </li> <li>This field is required.</li> </ul>
SegmentID	ID of the specific circuit segment inspected, if any. Foreign key to the Asset Line feature classes if the electrical corporation has persistent unique segment IDs. A segment may be anything more granular than a circuit, including a single span. This field is required IF the inspection activity represented by the line is focused on conductor (e.g., radial clearance) AND the electrical corporation has persistent stable IDs for circuit segments.
CircuitID	ID of the specific circuit inspected, if any. Foreign key to the Asset Line feature classes if the electrical corporation does not have persistent unique segment IDs. This field is required IF the inspection activity represented by the line is focused on conductor (e.g., radial clearance) AND SegmentID is not populated.
LineClass	<ul> <li>Identifies the feature class where the segment or circuit ID should be found. Possible values: <ul> <li>Transmission Line</li> <li>Primary Distribution Line</li> <li>Secondary Distribution Line</li> </ul> </li> <li>This field is required IF the inspection activity represented by the line is focused on conductor (e.g., radial clearance).</li> </ul>
InspectionLocationOrAddress	Address or location description for the inspection location. This field is optional.
WMPInitiativeActivity	Description of initiative activity. See <i>Appendix C. WMP Initiative Classification</i> . May add new activity descriptions not in that list. This field is required.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.2.2 of the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
InspectionStatus	<ul> <li>The status of the vegetation inspection project. Possible values:</li> <li>Planned</li> <li>In progress</li> <li>Complete</li> <li>This field is required.</li> </ul>
InspectionStartDate	The date when a vegetation management inspection began or is planned to begin. If exact date is not known, may approximate to first day of the month inspection was started. May leave null for planned inspections. This field is required IF InspectionStatus is "In progress" OR "Complete".
InspectionEndDate	The date when a vegetation management inspection ended or is planned to end. If exact date is not known, may approximate to last day of the month inspection was finished. This field is required IF InspectionStatus is "Complete".

InspectionType	Initiative activities related to the vegetation management project. If multiple activities
	are related, list them in the "InspectionType" comment field. Possible values:
	Assessing trees with the potential to strike
	Clearances, required
	Clearances, beyond requirements
	Hazard trees
	Tree mortality
	Other, see comment
	This field is required.
InspectionTypeComment	Inspection type description not listed in the options above. If multiple activities are
	related to the project, list them here. This field is required IF InspectionType is "Other
	see comment".
PerformedBy	Who performed the asset inspection? Possible values:
	Utility staff
	Contractor
	Other, see comment
	This field is required.
PerformedByComment	Inspector description not listed in the options above. This field is required II
,	PerformedBy is "Other, see comment".
CommercialHarvest	Does the inspection involve commercial harvest? Possible values:
	Yes
	• No
	This field is required.
TreeTrimCount	The number of trees identified for trimming from the vegetation management
neenmeoune	inspection. Trees over 6" DBH and outside a 4' radius of the conductor must be
	counted. This field is required.
TreeRemovalCount	The number of trees identified for removal from the vegetation management
Treekemovalcount	inspection. Trees over 6" DBH and outside a 4' radius of the conductor must be
	counted. This field is required.
InspectionComment	Additional comments regarding the vegetation inspection project. This field is
	optional.
InspectionMethod	Inspection method. Possible values:
	Ground inspection
	Climbing
	Lift/bucket truck
	Aerial: drone
	Aerial: helicopter
	Aerial: fixed wing
	Other, see comment
	"Aerial: drone" should be used for all unmanned aerial vehicles regardless o
	configuration (rotor vs. fixed-wing). "Lift/bucket truck" should be used for any simila
	methods. "Ground inspection" should be understood not to involve any climbing o
	lifting equipment or drone technology. This field is required.
InspectionMethodComment	Inspection method description not listed in the options above. This field is required I
	InspectionMethod is "Other, see comment".

DataCaptureSensorType	Type of sensor used to record data during the inspection, if any. Do not identify sensors used only for real-time visualization during the inspection. Possible values: None Aerial laser scanning Terrestrial laser scanning Aerial imagery (visible) Aerial imagery (thermal) Other, see comment This field is required.
DataCaptureSensorTypeComment	Type of sensor other than those identified as options in the Data Capture Sensor Type field. This field is required IF DataCaptureSensorType is "Other, see comment".
HFTDClass	The CPUC High Fire Threat District (HFTD) area that the vegetation management project intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. If a data line spans multiple HFTD areas, list them under the "HFTDClassComment" field. Possible values: • Tier 3 • Tier 2 • Non-HFTD • Multiple, see comment HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.
HFTDClassComment	If the project line intersects multiple HFTD areas, list all of them here. This field is required IF HFTDClass is "Multiple, see comment".

## 3.6.3.5.3 Vegetation Inspection Point (Feature Class)

Field Name	Field Description
VmilD	Unique ID or job ID of a vegetation inspection activity. Primary key for the Vegetation
	Inspection Point feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID
	must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR
	submissions for the initiative(s) entire lifecycle. This field should remain static even if
	WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This
	field is required.

InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or
	done at the electrical corporation's discretion? Inspections done at increased
	frequency relative to requirements or normal operations are considered discretionary
	Possible values:
	Regulatory
	Discretionary
	This field is required.
AssetID	Unique ID for a specific point asset. Foreign key to the Asset Point features. For suppor
	structures, use Support Structure ID. For transformers, use Transformer Site ID. This
	field is required IF the inspection activity represented by the point is focused on ar
	individual asset recorded as a point in data submitted to Energy Safety.
AssetFeature	Identifies the feature class where the asset ID should be found. Possible values:
	• Camera
	Connection Device
	Fuse     Lightning Arrester
	Substation
	Support Structure
	Switchgear
	Transformer Site
	Weather Station
	This field is required IF the inspection activity represented by the point is focused or
	an individual asset recorded as a point in data submitted to Energy Safety.
SegmentID	ID of the specific circuit segment inspected, if any. Foreign key to the Asset Line feature
	classes if the electrical corporation has persistent unique segment IDs. A segment may
	be anything more granular than a circuit, including a single span. This field is required
	IF the inspection activity represented by the point is focused on conductor (e.g., radia
	clearance) AND the electrical corporation has persistent stable IDs for circuit segments
CircuitID	ID of the specific circuit inspected, if any. Foreign key to the Asset Line feature classes
	if the electrical corporation does not have persistent unique segment IDs. This field is
	required IF the inspection activity represented by the point is focused on conducto
	(e.g., radial clearance) AND SegmentID is not populated.
LineClass	Identifies the feature class where the segment or circuit ID should be found. Possible
	values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required IF the inspection activity represented by the point is focused or
	conductor (e.g., radial clearance).
InspectionLocationOrAddress	Address or location description for the inspection location. This field is optional.
IsTree	Does the point represent a tree or other vegetation location? Possible values:
	Yes
	• No
	This field is required.
VagatationConuc	
VegetationGenus	Genus of vegetation. This field may be left null for palms and bamboo. This field is
	required IF the point represents an individual tree or shrub ANE
	VegetationCommonName is not "Palm" or "Bamboo".

VegetationSpecies	Species of vegetation. Do not use "sp." except for the following genera: <i>Acacia, Agave</i> <i>Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa, Ceanothus, Citrus,</i> <i>Corymbia, Eucalyptus, Lagerstroemia, Ligustrum, Malus, Melaleuca, Photinia,</i> <i>Pittosporum, Podocarpus, Prunus, Pyrus, Salix, Strlitzia, Syzygium, Tamarix.</i> This field may be filled out as "sp." or left null for the above genera and may be left null for palms and bamboo. This field is required IF IsTree is not "No" AND VegetationCommonName is not "Palm" or "Bamboo" AND VegetationGenus is not in the list above.
VegetationCommonName	Common name of vegetation. This field is required IF IsTree is not "No" and the tree represented is a Palm or Bamboo.
TreeHeight	Tree height (feet). Round the value. This field is required if IsTree is not "No".
TreeDiameter	Tree diameter at breast height (inches). Round the value. This field is required if IsTree is not "No".
TreeDistance	Distance (in feet) between tree or shrub and the electrical corporation's nearest utility asset. This field is required if IsTree is not "No".
DangerTree	For points representing individual trees: Is this a "danger tree" per 14 CCR 895.1? Possible values: • Yes • No This field is required if laTree is not "No"
WMPInitiativeActivity	<ul> <li>This field is required if IsTree is not "No".</li> <li>Description of initiative activity. See <i>Appendix C. WMP Initiative Classification</i>. May add other activity descriptions not in that list. This field is required.</li> </ul>
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.2.2 of the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
InspectionStatus	<ul> <li>The status of the vegetation inspection project. Possible values:</li> <li>Planned</li> <li>In progress</li> <li>Complete</li> <li>This field is required.</li> </ul>
InspectionStartDate	The date when a vegetation management inspection began or is planned to begin. If exact date is not known, may approximate to first day of the month inspection was started. May leave null for planned inspections. This field is required IF InspectionStatus is "In progress" OR "Complete".
InspectionEndDate	The date when a vegetation management inspection ended or is planned to end. If exact date is not known, may approximate to last day of the month inspection was finished. This field is required IF InspectionStatus is "Complete".

InspectionType	Initiative activities related to the vegetation management project. If multiple activities
	are related, list them in the "InspectionType" comment field. Possible values:
	<ul> <li>Assessing trees with the potential to strike</li> </ul>
	Clearances, required
	Clearances, beyond requirements
	Hazard trees
	Tree mortality
	Other, see comment
	This field is required.
InspectionTypeComment	Inspection type description not listed in the options above. If multiple activities are
	related to the project, list them here. This field is required IF InspectionType is "Other,
	see comment".
PerformedBy	Who performed the asset inspection? Possible values:
	Utility staff
	Contractor
	Other, see comment
	This field is required.
PerformedByComment	Inspector description not listed in the options above. This field is required IF
·	PerformedBy is "Other, see comment".
CommercialHarvest	Does the inspection involve commercial harvest? Possible values:
	• Yes
	• No
	This field is required.
TreeTrimCount	The number of trees identified for trimming from the vegetation management
	inspection. Trees over 6" DBH and outside a 4' radius of the conductor must be
	reported. This field is required.
TreeRemovalCount	The number of trees identified for removal from the vegetation management
neekemovaleount	inspection. Trees over 6" DBH and outside a 4' radius of the conductor must be
	reported. This field is required.
InspectionComment	
Inspectioncomment	Additional comments regarding the vegetation inspection project. This field is
IncreationMathed	optional.
InspectionMethod	Inspection method. Possible values:
	Ground inspection
	Climbing
	Lift/bucket truck
	Aerial: drone
	Aerial: helicopter
	Aerial: fixed wing
	Other, see comment
	"Acticly during" chevild be used for all unmerged acticly ushiples recordless of
	Aerial: orone should be used for all inmanned aerial vehicles repartiess of
	"Aerial: drone" should be used for all unmanned aerial vehicles regardless of configuration (rotor vs. fixed-wing). "Lift/bucket truck" should be used for any similar methods. "Ground inspection" should be understood not to involve any climbing or

InspectionMethodComment	Inspection method description not listed in the options above. This field is required if "InspectionMethod" is "Other, see comment".
DataCaptureSensorType	<ul> <li>Type of sensor used to record data during the inspection, if any. Do not identify sensors used only for real-time visualization during the inspection. Possible values: <ul> <li>None</li> <li>Aerial laser scanning</li> <li>Terrestrial laser scanning</li> <li>Aerial imagery (visible)</li> <li>Aerial imagery (thermal)</li> <li>Other, see comment</li> </ul> </li> <li>This field is required.</li> </ul>
DataCaptureSensorTypeComment	Type of sensor other than those identified as options in the Data Capture Sensor Type field. This field is required IF DataCaptureSensorType is "Other, see comment".
HFTDClass	<ul> <li>The CPUC high-fire threat district (HFTD) area the management inspection intersects.</li> <li>For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: <ul> <li>Tier 3</li> <li>Tier 2</li> <li>Non-HFTD</li> </ul> </li> <li>HFTD data can be downloaded from: <a href="https://ia.cpuc.ca.gov/firemap">https://ia.cpuc.ca.gov/firemap</a>. This field is required.</li> </ul>

## 3.6.3.5.4 Vegetation Inspection Polygon (Feature Class)

Field Name	Field Description
VmilD	Unique ID or job ID of a vegetation inspection activity. Primary key for the Vegetation
	Inspection Polygon feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	• BVES
	• HWT
	• Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID
	must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR
	submissions for the initiative(s) entire lifecycle. This field should remain static even if
	WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This
	field is required.

InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, of done at the electrical corporation's discretion? Inspections done at increased
	frequency relative to requirements or normal operations are considered discretionary
	Possible values:
	Regulatory     Discretionany
	• Discretionary This field is required.
SegmentID	ID of the specific circuit segment inspected. Foreign key to the Asset Line feature classes if the electrical corporation has persistent unique segment IDs. A segment may
	be anything more granular than a circuit, including a single span. This field is required
	IF the inspection activity represented by the polygon is focused on conductor (e.g.
	radial clearance) AND the electrical corporation has persistent stable IDs for circuit
	segments.
CircuitID	ID of the specific circuit inspected. Foreign key to the Asset Line feature classes if the
	electrical corporation does not have persistent unique segment IDs. This field is
	required IF the inspection activity represented by the polygon is focused on
	conductor (e.g., radial clearance) AND SegmentID is not populated.
LineClass	Identifies the feature class where the segment or circuit ID should be found. Possible
	values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required IF the inspection activity represented by the polygon is focused or
	conductor (e.g., radial clearance).
AssetID	Unique ID for a specific point asset. Must be traceable stable ID within a specific asset
	class. Foreign key to all the related Asset Point feature class attribute tables. For
	Support Structure, use Support Structure ID. For Transformer Site, use Transformer
	Site ID. This field is required IF the inspection activity represented by the point is
	focused on an individual asset recorded as a point in data submitted to Energy Safety. Identifies the feature class where the asset ID should be found. Possible values:
AssetFeature	Camera
	Connection Device
	• Fuse
	<ul> <li>Lightning Arrester</li> <li>Substation</li> </ul>
	Support Structure
	Switchgear
	Transformer Site
	Weather Station
	This field is required IF the inspection activity represented by the point is focused on
	an individual asset recorded as a point in data submitted to Energy Safety.
InspectionLocationOrAddress	Address or location description for the inspection location. This field is optional.
WMPInitiativeActivity	Description of initiative activity. See Appendix C. WMP Initiative Classification. May add
	new activity descriptions not in that list. This field is required.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.2.2 of the electrical corporation's WMP. This field is required.

WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
InspectionStatus	<ul> <li>The status of the vegetation inspection project. Possible values:</li> <li>Planned</li> <li>In progress</li> <li>Complete</li> <li>This field is required.</li> </ul>
InspectionStartDate	The date when a vegetation management inspection began or is planned to begin. If exact date is not known, may approximate to first day of the month inspection was started. May leave null for planned inspections. This field is required IF InspectionStatus is "In progress" OR "Complete".
InspectionEndDate	The date when a vegetation management inspection ended or is planned to end. If exact date is not known, may approximate to last day of the month inspection was finished. This field is required IF InspectionStatus is "Complete".
InspectionType	Initiative activities related to the vegetation management project. If multiple activities are related, list them in the "InspectionType" comment field. Possible values: • Assessing trees with the potential to strike • Clearances, required • Clearances, beyond requirements • Hazard trees • Tree mortality • Other, see comment This field is required.
InspectionTypeComment	Inspection type description not listed in the options above. If multiple activities are related to the project, list them here. This field is required IF InspectionType is "Other see comment".
PerformedBy	<ul> <li>Who performed the asset inspection? Possible values:</li> <li>Utility staff</li> <li>Contractor</li> <li>Other, see comment</li> <li>This field is required.</li> </ul>
PerformedByComment	Inspector description not listed in the options above. This field is required IF PerformedBy is "Other, see comment".
CommercialHarvest	Does the inspection involve commercial harvest? Possible values:                     Yes
TreeTrimCount	The number of trees identified for trimming from the vegetation management inspection. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. This field is required.
TreeRemovalCount	The number of trees identified for removal from the vegetation management inspection. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. This field is required.
InspectionComment	Additional comments regarding the vegetation inspection project. This field is optional.

InspectionMethod	Inspection method. Possible values:
	Ground inspection
	Climbing
	Lift/bucket truck
	Aerial: drone
	Aerial: helicopter
	Aerial: fixed wing
	Other, see comment
	"Aerial – drone" should be used for all unmanned aerial vehicles regardless of
	configuration (rotor vs. fixed-wing). "Lift/bucket truck" should be used for any similar
	methods. "Ground inspection" should be understood not to involve any climbing or
	lifting equipment or drone technology. This field is required.
InspectionMethodComment	Inspection method description not listed in the options above. This field is required IF InspectionMethod is "Other, see comment".
DataCaptureSensorType	<ul> <li>Type of sensor used to record data during the inspection, if any. Do not identify sensors used only for real-time visualization during the inspection. Possible values:</li> <li>None</li> <li>Aerial laser scanning</li> <li>Terrestrial laser scanning</li> <li>Aerial imagery (visible)</li> <li>Aerial imagery (thermal)</li> </ul>
	Other, see comment
	This field is required.
DataCaptureSensorTypeComment	Type of sensor other than those identified as options in the Data Capture Sensor Type field. This field is required IF DataCaptureSensorType is "Other, see comment".
HFTDClass	The CPUC High Fire Threat District (HFTD) area that the vegetation management project intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. If a data polygon spans multiple HFTD areas, list them under the "HFTDClassComment" field. Possible values: • Tier 3
	• Tier 2
	Non-HFTD
	Multiple, see comment
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is
	required.
HFTDClassComment	If the project polygon intersects multiple HFTD areas, list all of them here. This field is required IF HFTDClass is "Multiple, see comment".

### 3.6.3.6 Vegetation Management Projects

#### 3.6.3.6.1 Overview for Vegetation Management Projects

In the context of these requirements, vegetation management projects involve the physical manipulation of vegetation (clearing, thinning, etc.) whereas inspections are focused on inspecting the state of vegetation near power line assets. For vegetation management projects, Energy Safety provided template feature classes for points, lines, and polygons in case the electrical corporation records vegetation management project data in any of these geometries. Any vegetation management data recorded in these formats must be submitted. However, if the electrical corporation records vegetation management data in one format but not another (e.g., points but not polygons), it does not have to convert existing data to another geometry, unless specifically requested to do so by Energy Safety. If the electrical corporation does not record any vegetation inspection data in any geospatial geometry, they must start recording vegetation inspection GIS geometry data going forward. With each quarterly data submission, the electrical corporation must submit data for vegetation management projects which were either active or completed within the reporting period (i.e., the previous quarter), and data for vegetation management projects planned for the next quarter (i.e., the following reporting period).

The electrical corporation may submit photos for vegetation management projects. If the electrical corporation submits vegetation management project photos, it must prioritize photos of projects other than routine clearance to standards, and populate the "PhotoID," "IsBeforeAfter," and "VmpID" fields in the "Initiative Photo Log" related table to ensure photos can be linked to their associated records in these features.

## 3.6.3.6.2 Vegetation Management Project Line (Feature Class)

This feature class can be used to record projects for which there are multiple trees or other plants covered by a line segment.

Field Name	Field Description
VmpID	Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Line feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC
	This field is required.

UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	<ul> <li>Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Clearances to greater than required distance are considered discretionary. Possible values: <ul> <li>Regulatory</li> <li>Discretionary</li> </ul> </li> <li>This field is required.</li> </ul>
SegmentID	ID of the specific circuit segment on which the work was done, if any. Foreign key to the Asset Line features if the electrical corporation has persistent unique segment IDs. A segment may be anything more granular than a circuit, including a single span. This field is required IF the VM activity represented by the line is focused on conductor (e.g., radial clearance) AND the electrical corporation has persistent stable IDs for circuit segments.
CircuitID	ID of the specific circuit on which the work was done, if any. Foreign key to the Asset Line features if the electrical corporation does not have persistent unique segment IDs. This field is required IF the inspection activity represented by the point is focused on conductor (e.g., radial clearance) AND SegmentID is not populated.
LineClass	<ul> <li>Identifies the feature class where the segment or circuit ID should be found. Possible values:</li> <li>Transmission Line</li> <li>Primary Distribution Line</li> <li>Secondary Distribution Line</li> <li>This field is required IF SegmentID or CircuitID is populated.</li> </ul>
ProjectLocationOrAddress	Address or location description for project location. This field is optional.
RadialClearanceDistance	What radial clearance distance was implemented for this project, in feet? For projects not involving radial clearance, enter "-99". This should be the actual clearance standard implemented, NOT the minimum clearance per regulations, if those are different (i.e., where the electrical corporation is implementing "enhanced" clearances via greater distance than required). This field is required.
LineDeenergized	Do the power lines need to be de-energized to perform the work? Possible values:
WMPInitiativeActivity	More specific description of initiative activity. See <i>Appendix C. WMP Initiative Classification</i> . May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
VmpStatus	Status of the vegetation management project. Possible Values: <ul> <li>Planned</li> <li>In progress</li> <li>Complete</li> </ul> This field is required.

HerbicideUse	Are any herbicides planned to be used or were any herbicides used as part of the project? Possible values: <ul> <li>Yes</li> <li>No</li> </ul>
HerbicideName	This field is required. If any herbicides are planned for use or were used, list the specific products used / to be used. This field is required IF HerbicideUse is not "No".
ChangeOrder	<ul> <li>Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: <ul> <li>Yes</li> <li>No</li> </ul> </li> <li>This field is required.</li> </ul>
DescriptionOfWork	Additional description of the vegetation management work. This field is optional.
StartDate	The start date of the vegetation management project. This field must have values for all projects that have a value of "Complete" or "In Progress" in the"VmpStatus" field. If exact date is not known, may approximate as the first day of the month in which project began. May leave null for planned projects. This field is required IF VmpStatus is "In progress" OR "Complete".
EndDate	The completion date of the vegetation management project. This field must at least have values for all projects that have a value of "Complete" in the VmpStatus field. If exact date is not known, may approximate as last day of the month in which project was completed. This field is required IF VmpStatus is "Complete".
CoastalRedwoodExemption	Coastal redwood exception to clearance being applied. Possible values:                 Yes                 No This field is required.
EncroachPermit	Is an encroachment permit required for the vegetation management project? Possible values: • Yes • No This field is required.
EnvPermit	Is special environmental permitting needed for the vegetation management project? Possible values:  Ves No This field is required.
EnvPermitProject	Specific activity (e.g., timber harvest under an exemption) for which a permit was obtained. This field is required IF EnvPermit is "Yes".
CALFIREHdNumber	If applicable, enter the CAL FIRE harvest document number applicable to the initiative. When the permitted project is timber harvest under an exemption, this field must include the harvest document number of the exemption (e.g., 2-20EX-01049-BUT). This field is required IF the project has a CAL FIRE harvest document.

For any projects that do not have a CAL FIRE harvest document number or that have a CAL FIRE Harvest document number and additional permit documentation, enter any key details about environmental permit documentation and project ID numbers. This field is required if EnvPermit is "Yes" and CALFIREHdNumber is not populated.
<ul> <li>Does the initiative involve commercial harvest? Possible values:</li> <li>Yes</li> <li>No</li> <li>This field is required.</li> </ul>
<ul> <li>How is brush or slash generated by the vegetation management project being managed or treated? Possible values: <ul> <li>None</li> <li>Lopping</li> <li>Chipping</li> <li>Removal</li> <li>Other, see comment</li> </ul> </li> <li>"Slash", pursuant to PRC § 4525.7, means branches or limbs less than four inches in Diameter, and bark and split products debris left on the ground as a result of Timber Operations. This field is required.</li> </ul>
Brush/slash management method not listed above. This field is required IF SlashManagement is "Other, see comment".
Number of trees planned for trimming in the project. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. Enter "0" if tree trimming is not part of the vegetation project. This field is required.
Number of trees planned for removal in the project. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. Enter "0" if tree removal is not part of the vegetation project. This field is required.
Number of trees actually trimmed as part of the project. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. Enter "0" if tree trimming is not part of the vegetation project. This field is required IF VmpStatus is "Complete".
Number of trees actually removed as part of the project. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. Enter "0" if tree removal is not part of the vegetation project. This field is required IF VmpStatus is "Complete".
<ul> <li>Record how boles of trees (6" diameter and greater) will be treated. If multiple destinations apply, list them all in the "VegetationDestinationComment" field.</li> <li>Possible values: <ul> <li>Sawmill</li> <li>Firewood</li> <li>Biomass facility</li> <li>Left whole on-site</li> <li>Left chipped on-site</li> <li>Burned on-site</li> <li>None</li> <li>Other, see comment</li> </ul> </li> <li>"Left whole on-site" includes bucked logs – whole means "not chipped". "None"</li> </ul>

WoodDestinationComment	Wood destination not listed above; or, if multiple destinations apply, list them here. This field is required IF WoodDestination is "Other, see comment".
HFTDClass	The CPUC High Fire Threat District (HFTD) area that the vegetation management project intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. If a data line spans multiple HFTD areas, list them under the "HFTDClassComment" field. Possible values: • Tier 3 • Tier 2 • Non-HFTD • Multiple, see comment HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.
HFTDClassComment	If the project line intersects multiple HFTD areas, list all of them here. This field is required IF HFTDClass is "Multiple, see comment".

### 3.6.3.6.3 Vegetation Management Project Point (Feature Class)

This feature class is intended to provide an appropriate template for situations in which the electrical corporation records individual trees or utility assets being treated as individual GIS points. If there are vegetation management projects involving multiple trees or assets per GIS geometry, or where vegetation projects are tracked by line segments, the electrical corporation must use the "Vegetation Project Line" or "Vegetation Project Polygon" feature classes. If the points provided represent support structures, the "Vegetation Treatment Type" must be "Pole Brushing". Fields related to specific tree information ("Tree ID" through "Tree Diameter") are only required for points representing trees, rather than assets.

Field Name	Field Description
VmpID	Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC
	This field is required.

UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the Utility Initiative Tracking ID field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	<ul> <li>Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Clearances to greater than required distance are considered discretionary. Possible values: <ul> <li>Regulatory</li> <li>Discretionary</li> </ul> </li> <li>This field is required.</li> </ul>
AssetID	Unique ID for a specific point asset. Must be traceable stable ID within a specific asset class. Foreign key to all the related Asset Point feature class attribute tables. For Support Structure, use Support Structure ID. For Transformer Site, use Transformer Site ID. This field is required IF the VM activity represented by the point is focused on an individual asset recorded as a point in data submitted to Energy Safety.
AssetFeature	Identifies the feature class where the asset ID should be found. Possible values: Camera Connection Device Fuse Lightning Arrester Substation Support Structure Switchgear Transformer Site Weather Station This field is required IF the VM activity represented by the point is focused on an individual asset recorded as a point in data submitted to Energy Safety.
SegmentID	ID of the specific circuit segment on which the work was done, if any. Foreign key to the Asset Line features if the electrical corporation has persistent unique segment IDs. A segment may be anything more granular than a circuit, including a single span. This field is required IF the VM activity represented by the point is focused on conductor (e.g., radial clearance) AND the electrical corporation has persistent stable IDs for circuit segments.
CircuitID	ID of the specific circuit on which the work was done, if any. Foreign key to the Asset Line features if the electrical corporation does not have persistent unique segment IDs. This field is required IF the VM activity represented by the point is focused on conductor (e.g., radial clearance) AND SegmentID is not populated.
LineClass	Identifies the feature class where the segment or circuit ID should be found. Possible values: <ul> <li>Transmission Line</li> <li>Primary Distribution Line</li> <li>Secondary Distribution Line</li> </ul> This field is required IF SegmentID or CircuitID is populated.
ProjectLocationOrAddress	Address or location description for vegetation project location. This field is optional.

IsTree	<ul> <li>Does the point represent a tree or other vegetation location? Possible values:</li> <li>Yes</li> <li>No</li> </ul>
	This field is required.
TreelD	A unique ID associated with the individual tree within the scope of the vegetation management project. This field is optional.
VegetationGenus	Genus of vegetation. This field may be left null for palms and bamboo. This field is required IF IsTree is not "No" AND VegetationCommonName is not "Palm" or "Bamboo".
VegetationSpecies	Species of vegetation. Do not use "sp." except for the following genera: <i>Acacia, Agave</i> <i>Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa, Ceanothus, Citrus,</i> <i>Corymbia, Eucalyptus, Lagerstroemia, Ligustrum, Malus, Melaleuca, Photinia,</i> <i>Pittosporum, Podocarpus, Prunus, Pyrus, Salix, Strelitzia, Syzygium, Tamarix.</i> This field may be filled out as "sp." or left null for the above genera and may be left null for palms and bamboo. This field is required IF IsTree is not "No" AND VegetationCommonName is not "Palm" or "Bamboo" AND VegetationGenus is not in the list above.
VegetationCommonName	Common name of vegetation. This field is required IF IsTree is not "No" and the tree represented is a Palm or Bamboo.
SpeciesGrowthRate	<ul> <li>Generalized growth rate of the subject tree species. Possible values:</li> <li>Slow growing</li> <li>Moderately growing</li> <li>Fast growing</li> <li>This field is required IF IsTree is not "No".</li> </ul>
TreeHeight	Tree height (feet). Round the value. Maximum value: 300. This field is required IF IsTree is not "No".
TreeDiameter	Tree diameter at breast height (inches). Round the value. This field is required IF IsTree is not "No".
DangerTree	For points representing individual trees: Is this a "danger tree" per 14 CCR 895.1? Possible values: • Yes • No This field is IF IsTree is not "No".
RadialClearanceDistance	What radial clearance distance was implemented for this project, in feet? Leave null for projects not involving radial clearance. This should be the actual clearance standard implemented, NOT the minimum clearance per regulations, if those are different (i.e., where the electrical corporation is implementing "enhanced" clearances via greater distance than required). This field is required.
LineDeenergized	Do the power lines need to be de-energized to perform the work? Possible values: <ul> <li>Yes</li> <li>No</li> </ul> This field is required.
WMPInitiativeActivity	Description of initiative activity. See <i>Appendix C. WMP Initiative Classification</i> . May add new activity descriptions not in that list. This field is required.

WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
VmpStatus	<ul> <li>Status of the vegetation management project. Possible Values:</li> <li>Planned</li> <li>In progress</li> <li>Complete</li> <li>This field is required.</li> </ul>
HerbicideUse	<ul> <li>Are any herbicides planned to be used or were any herbicides used as part of the project? Possible values: <ul> <li>Yes</li> <li>No</li> </ul> </li> <li>This field is required.</li> </ul>
HerbicideName	If any herbicides are planned for use or were used, list the specific products used / to be used. This field is required IF HerbicideUse is not "No".
DescriptionOfWork	Additional description of the vegetation management work. This field is optional.
StartDate	The start date of the vegetation management project. This field must have values for all projects that have a value of "Complete" or "In progress" in the VmpStatus field. If exact date is not known, may approximate as the first day of the month in which project began. This field is required IF VmpStatus is "In progress" OR "Complete".
EndDate	The completion date of the vegetation management project. This field must have values for all projects that have a value of "Complete" in the VmpStatus field. If exact date is not known, may approximate as last day of the month in which project was completed. This field is required IF VmpStatus is "Complete".
CoastalRedwoodExemption	Coastal redwood exception to clearance being applied. Possible values: <ul> <li>Yes</li> <li>No</li> </ul> This field is required.
EncroachPermit	Is an encroachment permit required for the vegetation management project? Possible values: • Yes • No This field is required.
EnvPermit	Is special environmental permitting needed for the vegetation management project? Possible values: • Yes • No This field is required.
EnvPermitProject	Specific activity (e.g., timber harvest under an exemption) for which a permit was obtained. This field is required IF EnvPermit is "Yes".
CALFIREHdNumber	If applicable, enter the CAL FIRE harvest document number applicable to the initiative. When the permitted project is timber harvest under an exemption, this field must include the harvest document number of the exemption (e.g., 2-20EX-01049-BUT). This field is required IF the project has a CAL FIRE harvest document.

OtherEnvPermitDocumentation	For any projects that do not have a CAL FIRE harvest document number or that have a CAL FIRE Harvest document number and additional permit documentation, enter any key details about environmental permit documentation and project ID numbers. This field is required if EnvPermit is "Yes" and CALFIREHdNumber is not populated.
CommercialHarvest	Does the initiative involve commercial harvest? Possible values: <ul> <li>Yes</li> <li>No</li> </ul> This field is required.
SlashManagement	<ul> <li>How is brush or slash generated by the vegetation management project being managed or treated? Possible values: <ul> <li>None</li> <li>Lopping</li> <li>Chipping</li> <li>Removal</li> <li>Other, see comment</li> </ul> </li> <li>"Slash", pursuant to PRC § 4525.7, means branches or limbs less than four inches in Diameter, and bark and split products debris left on the ground as a result of Timber Operations. This field is required.</li> </ul>
SlashManagementComments	Brush/slash management method not listed above. This field is required IF SlashManagement is "Other, see comment".
TreeTrimCountPlanned	Number of trees planned for trimming in the project. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. Enter "0" if tree trimming is not part of the vegetation project. This field is required.
TreeRemovalCountPlanned	Number of trees planned for removal in the project. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. Enter "0" if tree removal is not part of the vegetation project. This field is required.
TreeTrimCountActl	Number of trees actually trimmed as part of the project. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. Enter "0" if tree trimming is not part of the vegetation project. This field is required IF VmpStatus is "Complete".
TreeRemovalCountActl	Number of trees actually removed as part of the project. Trees over 6" DBH and outside a 4' radius of the conductor must be counted. Enter "0" if tree removal is not part of the vegetation project. This field is required IF VmpStatus is "Complete".
WoodDestination	Record how boles of trees (6" diameter and greater) will be treated. If multiple destinations apply, list them all in the "VegetationDestinationComment" field. Possible values: • Sawmill • Firewood • Biomass facility • Left whole on-site • Left chipped on-site • Burned on-site • None • Other, see comment "Left whole on-site" includes bucked logs – whole means "not chipped". "None"

WoodDestinationComment	Wood destination not listed above; or, if multiple destinations apply, list them here. This field is required IF WoodDestination is "Other, see comment".
HFTDClass	The CPUC High Fire Threat District (HFTD) area that the vegetation management project intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: • Tier 3 • Tier 2 • Non-HFTD HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.

## 3.6.3.6.4 Vegetation Management Project Polygon (Feature Class)

This feature class can be used to record projects for which there are multiple trees or other plants covered by a polygon.

Field Name	Field Description
VmpID	Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Polygon feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: BVES HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the Utility Initiative Tracking ID field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	<ul> <li>Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Clearances to greater than required distance are considered discretionary. Possible values: <ul> <li>Regulatory</li> <li>Discretionary</li> </ul> </li> <li>This field is required.</li> </ul>

AssetID	Unique ID for a specific point asset. Must be traceable stable ID within a specific asset class. Foreign key to all the related Asset Point feature class attribute tables.
	For Support Structure, use Support Structure ID. For Transformer Site, use
	Transformer Site ID. This field is required IF the VM activity represented by the point
	is focused on an individual asset recorded as a point in data submitted to Energy
	Safety.
AssetFeature	Identifies the feature class where the asset ID should be found. Possible values:
	• Camera
	Connection Device
	• Fuse
	Lightning Arrester
	Substation
	Support Structure
	Switchgear
	Transformer Site
	Weather Station
	This field is required IF AssetID is populated.
SegmentID	ID of the specific circuit segment on which the work was done, if any. Foreign key to
	the Asset Line features if the electrical corporation has persistent unique segment
	IDs. A segment may be anything more granular than a circuit, including a single span.
	This field is required IF the activity represented by the point is focused on conductor
	(e.g., radial clearance) AND the electrical corporation has persistent stable IDs for
	circuit segments.
CircuitID	ID of the specific circuit on which the work was done, if any. Foreign key to the Asset
	Line features if the electrical corporation does not have persistent unique segment
	IDs. This field is required IF the inspection activity represented by the point is
	focused on conductor (e.g., radial clearance) AND SegmentID is not populated.
LineClass	Identifies the feature class where the segment or circuit ID should be found. Possible
	values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required IF SegmentID or CircuitID is populated.
ProjectLocationOrAddress	Address or location description for project location. This field is optional.
LineDeenergized	Do the power lines need to be de-energized to perform the work? Possible values:
	• Yes
	• No
	This field is required.
WMPInitiativeActivity	More specific description of initiative activity. See Appendix C. WMP Initiative
	Classification. May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This
	field is required.
VmpStatus	Status of the vegetation management project. Possible Values:
	Planned
	In progress
	Complete
	This field is required.

HerbicideUse	Are any herbicides planned to be used or were any herbicides used as part of the project? Possible values:
	Yes
	• No
	This field is required.
HerbicideName	If any herbicides are planned for use or were used, list the specific products used / to
	be used. This field is required IF HerbicideUse is not "No".
DescriptionOfWork	Additional description of the vegetation management work. This field is optional.
StartDate	The start date of the vegetation management project. This field must have values for all projects that have a value of "Complete" or "In Progress" in the VmpStatus field. If exact date is not known, may approximate as the first day of the month in which project began. This field is required IF VmpStatus is "In progress" OR "Complete".
EndDate	The completion date of the vegetation management project. This field must at least have values for all projects that have a value of "Complete" in the VmpStatus field. If exact date is not known, may approximate as last day of the month in which project was completed. This field is required IF VmpStatus is "Complete".
CoastalRedwoodExemption	Coastal redwood exception to clearance being applied. Possible values:
	• Yes
	• No
	This field is required.
EncroachPermit	Is an encroachment permit required for the vegetation management project? Possible
	values:
	• Yes
	• No
	This field is required.
EnvPermit	Is special environmental permitting needed for the vegetation management project?
	Possible values:
	• Yes
	• No
	This field is required.
EnvPermitProject	Specific activity (e.g., timber harvest under an exemption) for which a permit was obtained. This field is required IF EnvPermit is "Yes".
CALFIREHdNumber	If applicable, enter the CAL FIRE harvest document number applicable to the
	initiative. When the permitted project is timber harvest under an exemption, this
	field must include the harvest document number of the exemption (e.g., 2-20EX-
	01049-BUT). This field is required IF the project has a CAL FIRE harvest document.
OtherEnvPermitDocumentation	For any projects that do not have a CAL FIRE harvest document number or that have
	a CAL FIRE Harvest document number and additional permit documentation, enter
	any key details about environmental permit documentation and project ID numbers
	This field is required if EnvPermit is "Yes" and CALFIREHdNumber is not populated.
CommercialHarvest	Does the initiative involve commercial harvest? Possible values:
	• Yes
	• No
	This field is required.

SlashManagement	<ul> <li>How is brush or slash generated by the vegetation management project being managed or treated? Possible values:</li> <li>None</li> </ul>
	• Lopping
	Chipping
	• Removal
	Other, see comment
	"Slash", pursuant to PRC § 4525.7, means branches or limbs less than four inches in
	Diameter, and bark and split products debris left on the ground as a result of Timber
	Operations. This field is required.
SlashManagementComments	Brush/slash management method not listed above. This field is required IF
olasimanagementeolimento	SlashManagement is "Other, see comment".
TreeTrimCountPlanned	Number of trees planned for trimming in the project. Trees over 6" DBH and outside
	a 4' radius of the conductor must be counted. Enter "0" if tree trimming is not part of the vegetation project or if TreeTrimAcreagePlanned is used instead. This field is required.
TreeTrimAcreagePlanned	Acreage of trees planned for trimming in the project. Use two decimal places. Enter
neeminacleagerlanneu	"0" if tree trimming is not part of the project or if TreeTrimCountPlanned is used
	instead. This field is required.
TreeRemovalCountPlanned	Number of trees planned for removal in the project. Trees over 6" DBH and outside a
	4' radius of the conductor must be counted. Enter "0" if tree removal is not part of the
	vegetation project or if TreeRemovalAcreagePlanned is used instead. This field is required.
TreeRemovalAcreagePlanned	Acreage of trees planned for removal in the project. Use two decimal places. Enter "0"
-	if tree removal is not part of the vegetation project or if TreeRemovalCountPlanned is used instead. This field is required.
TreeTrimCountActl	Number of trees actually trimmed as part of the project. Not relevant for projects
	that are planned or in progress. Trees over 6" DBH and outside a 4' radius of the
	conductor must be counted. Enter "0" if tree trimming is not part of the vegetation
	project or if TreeTrimAcreageActl is used instead. This field is required IF VmpStatus
	is "Complete".
TreeTrimAcreageActl	Acreage of trees actually trimmed as part of the in the project. Not relevant for
The miniscreages cu	projects that are planned or in progress. Enter "0" if tree trimming is not part of the
	vegetation project or if TreeTrimCountActl is used instead. This field is required IF VmpStatus is "Complete".
TrooDomouolCourté	
TreeRemovalCountActl	Number of trees actually removed as part of the project. Not relevant for projects that
	are planned or in progress. Enter "0" if tree removal is not part of the vegetation
	project or TreeRemovalAcreageActl is used instead. This field is required IF VmpStatus is "Complete".
TreeRemovalAcreageActl	Acreage of trees actually removed as part of the project. Not relevant for projects that
-	are planned or in progress. Enter "0" if tree removal is not part of the vegetation
	project or if TreeRemovalCountActl is used instead. This field is required IF VmpStatus

WoodDestination	Record how boles of trees (6" diameter and greater) will be treated. If multiple
	destinations apply, list them all in the "VegetationDestinationComment" field.
	Possible values:
	• Sawmill
	Firewood
	Biomass facility
	Left whole on-site
	Left chipped on-site
	Burned on-site
	None
	Other, see comment
	"Left whole on-site" includes bucked logs – whole means "not chipped". "None"
	means no such material will be generated (e.g., pole brushing). This field is required.
WoodDestinationComment	Wood destination not listed above; or, if multiple destinations apply, list them here.
	This field is required IF WoodDestination is "Other, see comment".
HFTDClass	The CPUC High Fire Threat District (HFTD) area that the vegetation management
	project intersects. For these data, anything outside Tiers 2 and 3 must be categorized
	as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. If a data polygon spans
	multiple HFTD areas, list them under the "HFTDClassComment" field. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	Multiple, see comment
	HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap. This field is
	required.
HFTDClassComment	If the project polygon intersects multiple HFTD areas, list all of them here. This field is
	required IF HFTDClass is "Multiple, see comment".

## 3.6.3.7 Initiative Photo Log (Table)

In this table, enter information about photos that accompany initiative feature classes. If more than one photo is applicable to an individual initiative geometry (point, line, or polygon), enter a separate record for each photo. Photos must be JPEG or PNG files. Photos must be named using the following convention:

UtilityName\_InspectorInitial\_RiskEvent\_YYYYMMDD\_PhotoNumber

For example, "Utility\_AB\_PspsDamage\_20200703\_1.png"

If applicable/logical, an optional district ID value can be added between the utility name and inspector initial values:

UtilityName\_DistrictID\_InspectorInitial\_RiskEvent\_YYYYMMDD\_PhotoNumber

Field Name	Field Description
PhotoID	Name for a photo showing an initiative or inspection findings. Primary key for the Initiative Photo Log
	table. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
IsBeforeAfter	Identifies before and after photos of initiatives. Possible values:
	Before
	• After
	• N/A
	Use "N/A" for photos which are not before/after. This field is required.
InitiativeFeature	What type of initiative was audited? Identifies the feature where the Initiative ID will be found. Possible
	values:
	Asset Inspection Point
	Asset Inspection Line
	Asset Inspection Polygon
	Grid Hardening Point
	Grid Hardening Line
	Vegetation Inspection Point
	Vegetation Inspection Line
	Vegetation Inspection Polygon
	Vegetation Management Project Point
	Vegetation Management Project Line
	Vegetation Management Project Polygon
	Other Initiative Point
	Other Initiative Line
	Other Initiative Polygon
	Initiative Audit Point
	Initiative Audit Line
	Initiative Audit Polygon
	This field is required.
InitiativeID	Unique ID of the initiative activity that was audited. Foreign key to the initiative features. This field is
	required.

## **3.6.4 Other Required Data (Feature Dataset)**

## 3.6.4.1 Administrative Area (Polygon Feature Classes)

The electrical corporation must submit administrative area polygons for all electrical corporation-defined administrative areas used to manage its service territory. The electrical corporation must submit one feature class per administrative area type. Each feature class submitted must utilize the schema below. The electrical corporation must not force all administrative areas into one feature class. If the electrical corporation's territory surrounds the territories of other electricity providers, a precise service territories of other providers (e.g., public utilities and cooperatives that may be entirely surrounded by the electrical corporation's service territory). The electrical corporation must include all administrative areas used by the electrical corporation, including areas used for design and construction purposes (e.g., high wind areas, corrosive environments, etc.). The electrical corporation must submit all administrative area feature classes at least once, and when any areas are revised, the electrical corporation is not required to submit publicly available data controlled by other entities (e.g. counties, HFTD areas, etc.).

Field Name	Field Description
AdminID	Unique ID and primary key for the Administrative Area feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         •       BVES         •       HWT         •       Liberty         •       LS Power         •       PacifiCorp         •       SCE         •       SDG&E         •       TBC         This field is required.
AreaType	Type of administrative area (service territory, region, district, zone, etc.) This field is required.
SubAreaType	Electrical corporation sub-area type. Enter "N/A" if an administrative area feature class is not broken into sub-polygons with unique names. Possible values: • Operational • Construction • Weather • Organizational • N/A • Other, see comment This field is required.

SubAreaTypeComment	Sub-area type not listed in the options above. This field is required IF SubAreaType is "Other, see
	comment".
Name	Name of administrative area. This field is required.

# 3.6.4.2 Critical Facility (Point Feature Class)

Field Name	Field Description
FacilityID	Unique ID for a specific critical facility. It should be a traceable stable ID within the electrical
	corporation's operations/processes. Primary key for the Critical Facility point feature class.
	This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	• BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
FacilityName	Name of the facility. This field is required.
FacilityCategory	Critical facility category. See examples table below this table for examples of facilities that fal
	under these categories. Possible values:
	Chemical
	Communications
	Educational
	Emergency services
	• Energy
	Government facilities
	Healthcare and public health
	Public safety answering points
	Transportation
	Water and wastewater systems
	Other, see comment
	This field is required.
FacilityCategoryComment	Facility category not covered by the options above. This field is required IF FacilityCategory is
	"Other, see comment".
FacilityDescription	Brief facility description (e.g., fire station, prison, nursing home, etc.). This field is optional.
SegmentID	ID of circuit segment associated with critical facility. Foreign key to the asset line features in
	the electrical corporation has persistent stable segment IDs. A segment may be anything more
	granular than a circuit, including a single span. This field is required IF the electrical
	corporation has persistent stable IDs for circuit segments.

CircuitID	ID of circuit associated with critical facility. Foreign key to the asset line features if the electrical corporation does not have persistent stable segment IDs. This field is required IF SegmentID is
	not populated.
MeterID	ID of meter associated with critical facility. This field is required.
BackupPower	Does the facility have a backup power source? Possible values:
	• Yes
	• No
	This field is required.
BackupType	Type of backup power source. Possible values:
	Storage battery
	Diesel generator
	Gas generator
	Combined/hybrid
	• Other, see comment
	This field is required IF BackupPower is "Yes".
BackupTypeComment	Backup type not listed in the options above. This field is required IF BackupPower is "Yes" AND BackupType is "Other, see comment".
BackupCapacity	Hours of energy storage of backup generation from backup power source. This field is required
	IF BackupPower is "Yes".
PopulationImpact	The approximate number of people that depend on this critical facility. This field is required.
PSPSDays	The number of days the critical facility was impacted by PSPS events in the reporting period. This field is required.
Address	The address of the critical facility. This field is required.
City	The city of the critical facility. This field is required.
Zip	The 5-digit zip code of the critical facility. This field is required.
HFTDClass	The CPUC high-fire threat district (HFTD) area the critical facility intersects. For these data,
	anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1
	or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.

## 3.6.4.3 High Wind Warning Day (Polygon Feature Class)

The values in this feature class can be determined with publicly available information. The electrical corporation must submit high wind warning day data for all zones, as defined by the National Weather Service, that intersect the electrical corporation's service territory and experienced a high wind warning during the reporting quarter, including those that only partially intersect the territory. The electrical corporation is not required to clip the polygons to match their service territory boundaries.

Field Name	Field Description
HwwID	Unique ID and primary key for the High Wind Warning Day feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: BVES HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC This field is required.
HWWIssueDateTime	Start date and time of the High Wind Warning. This field is required.
NumberHWWDays	Number of High Wind Warning days. This field is required.

## 3.6.4.4 Major Woody Stem (MWS) Exempt Tree Point (Feature Class)

Submit current point locations for major woody stem (MWS) exempt trees designated as such by the electrical corporation. MWS trees are exempt from certain vegetation clearance requirements.<sup>5</sup>

Field Name	Field Description
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.

<sup>&</sup>lt;sup>5</sup> See PRC § 4293; 14 CCR § 1257.

VegetationGenus	Genus of vegetation. This field may be left null for palms and bamboo. This field is required IF VegetationCommonName is not "Palm" or "Bamboo".
VegetationSpecies	Species of vegetation. Do not use "sp." except for the following genera: <i>Acacia, Agave,</i> <i>Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa, Ceanothus, Citrus, Corymbia,</i> <i>Eucalyptus, Lagerstroemia, Ligustrum, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus,</i> <i>Prunus, Pyrus, Strelitzia, Syzygium, Salix, Tamarix.</i> This field may be filled out as "sp." or left null for the above genera and may be left null for palms and bamboo. This field is required. VegetationCommonName is not "Palm" or "Bamboo" AND VegetationGenus is not in the list above.
VegetationCommonName	Common name of vegetation. This field is required IF the exempt tree is a palm or bamboo.
LastInspectionDate	Last date MWS tree was inspected. This field is required.
Quantity	Quantity of MWS trees represented by a single point if there are more than one. This may not be applicable to all electrical corporations. Leave this value as null if it is not applicable. This field is required IF the point represents more than 1 tree.

## 3.6.4.5 Other Power Line Connection Location (Point Feature Class)

The feature class below is intended to record the points where electrical corporation power lines feed into power lines managed by an organization other than the electrical corporation submitting data. These other power lines may be owned by individuals, businesses (including other electrical corporations), or other entities.

Field Name	Field Description
OplcID	Unique ID of private power line connection location. Primary key for the electrical corporation Power Line-Other Power Line Connection Location Point feature. This
	field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	BVES     HWT
	<ul><li>Liberty</li><li>LS Power</li></ul>
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
OtherLineOwner	Name of individual or other entity that owns the line to which the submitting
	corporation's electrical corporation line is connecting. This field is required.
ConnectionAsset	Asset enabling the connection. This field is required.

ConnectionPointAssetID	AssetID of the asset that enables the connection. Must be traceable stable ID within a specific asset class. Foreign key to the related asset point feature class attribute tables.
	This field is required.
CorporationSegmentID	Segment ID of the electrical corporation line that feeds energy into or receives energy
corporationsegmentib	from the private line. Foreign key to the related asset line features if the electrical
	corporation has persistent unique segment IDs. A segment may be anything more
	granular than a circuit, including a single span. This field is required IF the electrical
	corporation has persistent stable IDs for circuit segments.
CorporationCircuitID	Circuit ID of the electrical corporation line that feeds energy into or receives energy
CorporationCircuitID	from the private line. Foreign key to the related asset line features if the electrical
	corporation does not have persistent unique segment IDs. This field is required IF
	SegmentID is not populated.
CorporationLineClass	Classification of corporation's line asset at connection location. Identifies the feature
	where the Corporation Segment or Circuit ID will be found. Possible values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required.
OtherLineClass	Classification of line asset that meets corporation line at connection location. Possible
	values:
	Transmission
	Primary Distribution
	Secondary Distribution
	This field is required.
OtherConductorType	Type of conductor that connects to corporation line. Possible values:
	• Bare
	Covered
	Insulated
	Other, see comment
	This field is required.
OtherConductorTypeComment	Conductor type not listed in the options above. This field is required IF
	OtherConductorType is "Other, see comment".
ConnectionType	Type of energy transfer happening at location. Possible values:
	Corporation to private
	Corporation to corporation
	This field is required.
ConnectionOHUG	Is the connection overhead or underground? Possible values:
	All Overhead
	All underground
	Overhead to underground
	Underground to overhead
	For OH-UG values above, implied direction is from the reporting utility to the other
	utility. This field is required.
OtherNominalVoltagekV	Nominal voltage (in kilovolts) of other conductor connected to corporation line. Do not
	use more than two decimal places. Enter "-99" if not applicable. This field is required.

OtherOperatingVoltagekV	Operating voltage (in kilovolts) of other conductor connected to corporation line. Do not use more than two decimal places. Enter "-99" if not applicable. This field is required.
OtherConductorMaterial	Conductor material of other line that connects to corporation line. Possible values: <ul> <li>All aluminum conductor (AAC)</li> <li>All aluminum alloy conductor (AAAC)</li> <li>Aluminum conductor aluminum reinforced (ACAR)</li> <li>Aluminum conductor steel reinforced (ACSR)</li> <li>Aluminum conductor steel supported (ACSS)</li> <li>Copper (Cu)</li> <li>Other, see comment</li> </ul> This field is required.
OtherConductorMaterialComment	Conductor material not listed in the options above. This field is required IF OtherConductorMaterial is "Other, see comment".
OtherConductorSize	Size of other conductor that connects to corporation line (e.g., No. 4 Cu or 1/0 ACSR). This field is required.
OtherConductorOD	Overall diameter of the other conductor that connects to the corporation conductor in inches. This field is required.
ConnectionLastInspectionDate	Date of the last inspection. This field is required.
ConnectionLastMaintenanceDate	Date of the last maintenance. This field is required.
ConnectionEstablishmentDate	Date the connection was established. This field OR ConnectionEstablishmentYear OR EstimatedConnectioonAge is required.
ConnectionEstablishmentYear	Year of connection establishment. This field OR ConnectionEstablishmentDate OR EstimatedConnectioonAge is required.
EstimatedConnectionAge	The estimated age of the connection in years. Only use this field if the ConnectionEstablishmentYear and ConnectionEstablishmentDate values are unknown. Possible values: • 0-9 • 10-19 • 20-29 • 30-39 • 40-49 • 50-59 • 60-69 • 70-79 • 80-89 • 90-99 • 100+ This field OR ConnectionEstablishmentYear OR ConnectionEstablishmentDate is required.
OtherUsefulLifespan	The number of years the other line connected to the corporation line is expected to have a useful functioning existence upon initial installation. This field is required.
OtherAmpacityRating	Nominal ampacity rating of the other conductor in amperes. This field is required.

ConnectionComments	Describe any additional key details that should be known about the connection location. This field is optional.
HFTDClass	The CPUC high-fire threat district (HFTD) area the connection location intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: • Tier 3 • Tier 2 • Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.

# 3.6.4.6 Red Flag Warning Day (Polygon Feature Class)

The values in this feature class can be determined with publicly available information. The electrical corporation must submit red flag warning day data for all fire weather zones, as defined by the National Weather Service, that intersect the electrical corporation's service territory and experienced a red flag warning during the reporting quarter, including those that only partially intersect the territory. The electrical corporation is not required to clip the polygons to match their service territory boundaries. Fire weather zone GIS polygon data can be downloaded from the National Weather Service<sup>6</sup>. The electrical corporation is not required to submit zones that did not experience a red flag warning during the reporting quarter.

Field Name	Field Description
RfwID	Unique ID and primary key for the Red Flag Warning Day feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         BVES         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         This field is required.
FireWeatherZoneID	ID number of fire weather zone. This field is required.
RedFlagWarningIssueDateTime	Start date and time of the Red Flag Warning. This field is required.

<sup>&</sup>lt;sup>6</sup>Fire weather zone GIS polygon data is available at <u>https://www.weather.gov/gis/FireZones</u>

# 3.6.5 PSPS Event (Feature Dataset)

### 3.6.5.1 Overview for PSPS Events

The electrical corporation must submit all 3 geometries for each PSPS event (PSPS Event Line, PSPS Event Polygon, PSPS Event Customer Meter Point). Polygons must represent the overall area affected based on customer locations (customer addresses, meter points, parcels, or other land ownership polygon) or line data. Polygons must not be a simple buffer of any of the aforementioned data – at a minimum, a convex hull is appropriate.

### 3.6.5.2 PSPS Event Customer Meter Point (Feature Class)

This feature class includes points for the customer meters assigned to customers who experience a PSPS event. Its geometry will always be a subset of the "Customer Meters" feature class.

Field Name	Field Description
PspsEventMeterID	An underscore delimited concatenation of "EventID" + "_" + "MeterID". Primary key for the PSPS Event Customer Meter Point feature class attribute table. This field is required.
EventID	Unique ID of the PSPS event. Foreign key to the PSPS Event Log table. This field is required.
MeterID	Unique ID for a specific meter. Foreign key to the Customer Meter Point feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: <ul> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> <li>SDG&amp;E</li> <li>TBC</li> </ul> This field is required.
MeterType	<ul> <li>Broad Classification of customer type. Possible Values:</li> <li>Residential</li> <li>Non-residential</li> <li>This field is required.</li> </ul>
PredictedDurationMinutes	Anticipated duration of PSPS event's circuit shutoff after it is initiated. Must be reported in whole number minutes. This field is required.

ActualDurationMinutes	Actual duration of PSPS event's circuit shutoff. This would be determined after restoration and must be reported in whole number minutes. This should be the duration for the customer whose service was restored last (the maximum duration for the outage). This field is required.
HFTDClass	The CPUC high-fire threat district (HFTD) area the customer meter intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: • Tier 3 • Tier 2 • Non-HFTD HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.

## 3.6.5.3 PSPS Event Damage Point (Feature Class)

The electrical corporation must provide photos to accompany this feature class. The electrical corporation must take at least one photo of the asset damage, and at least one photo of the fuel bed below the asset damage (the area where sparks, burning debris, etc., could hit the ground and cause an ignition). Photos are required for all forms of damage covered by the feature class. Enter "PhotoID," "FuelBedPhotoID," and "DamageEventID" values in the "PSPS Damage Photo Log" related table to ensure photos can be linked to their associated points. See Section 2.3 Table 4 and Section 2.3.1.2 of these Guidelines for further information and requirements.

Field Name	Field Description
DamageEventID	Unique ID for a location with damage incurred during an individual PSPS event. Primary key enabling connection between PSPS Event Damage Point feature class and PSPS Event Conductor, Support Structure, and Other Asset Damage Detail tables. This field is required.
EventID	Unique ID for the event. Foreign key enabling connection to the PSPS Event Log table. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: <ul> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> <li>SDG&amp;E</li> <li>TBC</li> </ul> This field is required.
NumberRelatedRecords	Identifies the number of related damage records found in the PSPS Event Conductor, Support Structure, and Other Asset Damage Detail tables. This field is required.
DamageDateTime	Date and time or estimated date and time damage occurred. This field is required.

FuelBedDescription	Type of fuel bed existing under damage location. Possible values:
	• Fire-resistive fuel bed
	Grass fuel model
	Brush fuel model
	Timber fuel model
	Other, see comment
	This field is required.
	Definitions:
	• Fire-resistive fuel bed: Fuel bed not conducive to propagating (e.g., asphalt, concrete, gravel, etc.).
	Grass fuel model: Fuel bed comprised of annual grasses
	• Brush fuel model: Fuel bed comprised of mainly brush or shrubs (e.g., chamise, manzanita, chaparral, scotch broom, etc.).
	• Timber fuel model: Fuel bed comprised of timber or timber litter (e.g., forests, timber litter, logging slash, etc.).
FuelBedDescriptionComment	Fuel bed description not listed in the options above. This field is required if FuelBedDescription is "Other, see comment".
HFTDClass	The CPUC high-fire threat district (HFTD) area the asset damage point intersects. For
	these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not
	record any Zone 1 or Tier 1 values. Possible values:
	• Tier 3
	• Tier 2
	Non-HFTD
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is
	required.

# 3.6.5.4 PSPS Event Line (Feature Class)

This feature class includes circuit segments that experienced de-energizing during PSPS events.

Field Name	Field Description
PspsEventLineID	An underscore delimited concatenation of "EventID" + "_" + "SegmentID" or "EventID" + "_" + "CircuitID". Primary key for the PSPS Event Line feature class attribute table. This field is required.
EventID	A unique standardized identification name of the unique event. Foreign key enabling connection to PSPS Event Log table. This field is required.

SegmentID	Unique ID of the circuit segment that was de-energized. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs. A segment may
	be anything more granular than a circuit, including a single span. There should be only
	one value per record. Use multiple records in table for one PSPS event if multiple circuit segments were involved. This field is required IF the electrical corporation has persistent
CircuitID	stable IDs for circuit segments. Unique ID of the circuit that was de-energized. Foreign key to the asset line features if
Circuitid	the electrical corporation does not have persistent unique segment IDs. There should be
	only one value per record. Use multiple records in table for one PSPS event if multiple
	circuit segments were involved. This field is required IF SegmentID is not populated.
LineClass	Identifies the feature class where the Segment or Circuit ID should be found. Possible values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required.
SubstationID	Unique ID of the substation/feeder feeding the circuit segment that was de-energized
	during the PSPS event. Foreign key to the Substation feature. This field is required.
IsolationDeviceID	Unique ID of the isolation device. Foreign key to the asset point features. There should
	be only one value per record. Use multiple records in table for one PSPS event if multiple
	isolation devices were involved. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	• BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
IsolationDevice	The device which isolated the circuit during the PSPS event. Possible values:
	Circuit breaker
	• Fuse
	• Switch
	Other, see comment
	There should be only one value per record. Use multiple records in table for one PSPS
	event if multiple devices were used. This field is required.
IsolationDeviceComment	Isolation device not listed in the options above. This field is required IF IsolationDevice
	is "Other, see comment".
PredictedDurationMinutes	Anticipated duration of PSPS event's circuit shutoff after it is initiated. Must be reported
	in whole number minutes. This field is required.

ActualDurationMinutes	Actual duration of PSPS event's circuit shutoff. This would be determined after
	restoration and must be reported in whole number minutes. This should be the
	duration for the customer whose service was restored last (the maximum duration for
	the outage). This field is required.
DurationPredictionError	"PredictedDurationMinutes" minus "ActualDurationMinutes." Positive values indicate
	shorter than predicted PSPS outage duration; negative values indicate longer than
	predicted PSPS outage duration. This field is required.
TotalCustomerMinutes	Actual outage minutes experienced by customers. This field is required.
TotalCustomers	Total impacted customers. This is not necessarily a sum of all customer category values
	listed below because medical baseline customers may also be in other customer
	categories. This field is required.
ResidentialCustomers	Total residential customers. This field is required.
MedicalBaselineCustomers	Total medical baseline customers. This field is required.
CommercialIndustrialCustomers	Total commercial/industrial customers. This field is required.
OtherCustomers	Total customers that do not fall within residential or commercial/industrial (as
	requested under Decision 12-04-024). This field is required.
CriticalInfrastructure	Number of critical infrastructure locations (in accordance with Decision 19-05-042 as
	modified by Decision 20-05-051) impacted by the PSPS event. This field is required.
CriticalInfrastructureDuration	Duration of critical infrastructure locations (in accordance with Decision 19-05-042) de-
	energized during the PSPS event. Must be reported in whole number minutes. This field
	is required.
CriticalInfrastructureImpact	CriticalInfrastructure multiplied by CriticalInfrastructureDuration. This field is required.

# 3.6.5.5 PSPS Event Polygon (Feature Class)

Polygons must represent the overall area affected based on customer locations (customer addresses, meter points, parcels, or other land ownership polygon) or line data. Polygons must not be a simple buffer of any of the aforementioned data – at a minimum, a convex hull is appropriate.

Field Name	Field Description
PspsEventPolygonID	Unique ID for the event polygon. Primary key for the PSPS Event Polygon feature class. This field is required.
EventID	Unique ID of the PSPS event. Foreign key to the PSPS Event Log table. This field is required.

SegmentID	Unique ID of the circuit segment that was de-energized. Foreign key to all the related
	asset line feature class attribute tables. A segment may be anything more granular than
	a circuit, including a single span. There should be only one value per record. Use multiple
	records in table for one PSPS event if multiple circuit segments were involved. This field
	is required IF the electrical corporation has persistent stable IDs for circuit segments.
CircuitID	Unique ID of the circuit that was de-energized. Foreign key to all the related asset line
	feature class attribute tables. There should be only one value per record. Use multiple
	records in table for one PSPS event if multiple circuit segments were involved. This field
	is required IF SegmentID is not populated.
LineClass	Identifies the feature class where the Segment or Circuit ID should be found. Possible
	values:
	<ul> <li>Transmission Line</li> <li>Primary Distribution Line</li> </ul>
	Secondary Distribution Line
	This field is required.
SubstationID	Unique ID of the substation/feeder feeding the circuit that was de-energized during the
- soudonib	PSPS event. Foreign key to the Substation feature class. There should be only one value
	per record. Use multiple records in table for one PSPS event if multiple substations were
Inclution Daviage	involved. This field is required.
IsolationDeviceID	Unique ID of the isolation device. Foreign key to the asset point features. There should
	be only one value per record. Use multiple records for one PSPS event if multiple
	isolation devices were involved. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	• BVES
	• HWT
	• Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
IsolationDevice	The device which isolated the circuit during the PSPS event. Possible values:
	Circuit breaker
	• Fuse
	Switch
	Other, see comment
	There should be only one value per record. Use multiple records for one PSPS event i
	multiple devices were used. This field is required.
IsolationDeviceComment	Isolation device not listed in the options above. This field is required IF IsolationDevice
	is "Other, see comment".
PredictedDurationMinutes	Anticipated duration of PSPS event's circuit shutoff after it is initiated. Must be reported
	in whole number minutes. This field is required.

ActualDurationMinutes	Actual duration of PSPS event's circuit shutoff. This would be determined after restoration and must be reported in whole number minutes. This should be the duration for the customer whose service was restored last (the maximum duration for the outage). This field is required.
DurationPredictionError	"PredictedDurationMinutes" minus "ActualDurationMinutes." Positive values indicate shorter than predicted PSPS outage duration; negative values indicate longer than predicted PSPS outage duration. This field is required.
TotalCustomerMinutes	Actual outage minutes experienced by customers. This field is required.
TotalCustomers	Total impacted customers. This is not necessarily a sum of all customer category values listed below because medical baseline customers may also be in other customer categories. This field is required.
ResidentialCustomers	Total residential customers. This field is required.
MedicalBaselineCustomers	Total medical baseline customers. This field is required.
CommercialIndustrialCustomers	Total commercial/industrial customers. This field is required.
OtherCustomers	Total customers that do not fall within residential or commercial/industrial (as requested under Decision 12-04-024). This field is required.
CriticalInfrastructure	Number of critical infrastructure locations (in accordance with Decision 19-05-042 as modified by Decision 20-05-051) impacted by the PSPS event. This field is required.
CriticalInfrastructureDuration	Duration of critical infrastructure locations (in accordance with Decision 19-05-042) de- energized during the PSPS event. Must be reported in whole number minutes. This field is required.
CriticalInfrastructureImpact	CriticalInfrastructure multiplied by CriticalInfrastructureDuration. This field is required.

# 3.6.5.6 PSPS Event Tables

#### 3.6.5.6.1 PSPS Event Conductor Damage Detail (Table)

Using a one-to-many relationship, the electrical corporation must add as many "Conductor Damage" related table records (per PSPS damage location point) as are necessary to provide information about each instance or instances of conductor asset damage represented by a single point. If there is only one instance of damage per point, the electrical corporation must use only one related table record. If there are multiple instances of damage in the same location represented by a single point, the electrical corporation must use one related table record.

Field Name	Field Description
PspsCdID	Primary key for the PSPS Event Conductor Damage Detail table. This field is required.
DamageEventID	Unique ID for damage location. Foreign key enabling connection to the PSPS Event
	Damage Point feature class. This field is required.

UtilityID	Standardized identification name of the electrical corporation. Possible values:
,	BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
LineClass	Class of line damaged. Identifies the feature class where the segment or circuit ID should
	be found. Possible values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required.
SegmentID	Unique ID for a specific circuit segment. Foreign key to the asset line feature classes if the
	electrical corporation has persistent segment IDs. A segment may be anything more
	granular than a circuit, including a single span. This field is required IF the electrical
	corporation has persistent stable IDs for circuit segments.
CircuitID	Unique ID for specific circuit. Foreign key to the asset line features if the electrical
	corporation does not have persistent segment IDs. This field is required IF SegmentID is
	not populated.
FromDeviceID	The upstream Support Structure ID. Foreign key to the Support Structure feature. This field is required.
ToDeviceID	The downstream Support Structure ID. Foreign key to the Support Structure feature
	tables. This field is required.
Culture	
SubstationID	ID of substation associated with asset. Foreign key to the Substation feature. This field is
	required.
NominalVoltagekV	Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal
	places. OK to use ranges (e.g., "0-60", "<500. This field is required.
OperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal
	places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
ConductorMaterial	Conductor material. Possible values:
	All aluminum conductor (AAC)
	All aluminum alloy conductor (AAAC)
	• Aluminum conductor aluminum reinforced (ACAR)
	Aluminum conductor steel reinforced (ACSR)
	Aluminum conductor steel supported (ACSS)
	Copper (Cu)
	Other, see comment
	This field is required.
ConductorMaterialComment	Conductor material not listed in the options above. This field is required IF
	ConductorMaterial is "Other, see comment".

ConductorType	Type of conductor. Possible values:
	• Bare
	Covered
	Insulated
	Other, see comment
	This field is required.
ConductorTypeComment	Conductor type not listed above. This field is required IF ConductorType is "Other, see
21	comment".
ConductorLength	Conductor length in feet based on GIS data. This field is required.
FailedEquipmentDescription	Equipment that contributed to the conductor damage. If no other equipment contributed
	to failure, use "N/A". This field is required.
Cause	High-level category for conductor damage cause. Possible values:
	Object contact
	Vegetation contact
	Equipment failure
	Wire-to-wire contact
	Contamination
	Vandalism/theft
	Lightning
	Unknown
	Other, see comment
	This field is required.
CauseComment	Cause category not listed in options above. This field is required IF Cause is "Other, see comment".
ObjectContact	Description of object involved in the contact if the value of "Cause" is "Object contact."
2	Possible values:
	Animal contact
	Balloon contact
	Land vehicle contact
	Aircraft vehicle contact
	3rd party contact
	Other, see comment
	This field is required IF Cause is "Object Contact".
ObjectContactComment	Description of object contact not listed in the options above, or any additiona
	information about object contact. This field is required IF Cause is "Object Contact" AND
	ObjectContact is "Other, see comment".
LikelyArcing	Had the conductor been energized, would arcing have been likely because of the
	damage? Possible values:
	• Yes
	• No
	This field is required.
VmInspectionDate	Date of vegetation inspection. This field is required IF Cause is "Vegetation contact".
VegetationGenus	Genus of vegetation. This field may be left null for palms and bamboo. This field is
vegetationocitus	required IF Cause is "Vegetation contact" AND VegetationCommonName is not "Palm" o

VegetationSpecies	<ul> <li>Species of vegetation. Do not use "sp." Except for the following genera: Acacia, Agave,</li> <li>Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa, Ceanothus, Citrus,</li> <li>Corymbia, Eucalyptus, Lagerstroemia, Ligustrum, Malus, Melaleuca, Photinia,</li> <li>Pittosporum, Podocarpus, Prunus, Pyrus, Salix, Strelitzia, Syzygium, Tamarix. This field</li> <li>may be filled out as "sp." or left null for the above genera and may be left null for palms</li> <li>and bamboo. This field is required IF Cause is "Vegetation contact" AND</li> <li>VegetationCommonName is not "Palm" or "Bamboo" AND VegetationGenus is not in the</li> <li>list above.</li> </ul>
VegetationCommonName	Common name of vegetation. This field is not required except for palms and bamboo but may optionally be filled out for other vegetation. This field is required IF Cause is "Vegetation contact" AND the vegetation that made contact was a palm or bamboo species.
TreeHeight	If a tree was involved with the outage, enter a height estimate (in feet). This field is required IF Cause is "Vegetation contact".
TreeDiameter	If a tree was involved with the outage, enter tree diameter at breast height (in inches). This field is required IF Cause is "Vegetation contact".
TreeTrunkDistance	If a tree was involved with the outage, enter the horizontal distance (in feet) of the tree's trunk from the impacted power lines. This field is required IF Cause is "Vegetation contact".

#### 3.6.5.6.2 PSPS Event Damage Photo Log (Table)

In this table, the electrical corporation must enter information about photos that accompany the "PSPS Event Damage Point" feature class. If more than one damaged asset photo or more than one fuel bed photo is applicable to an individual PSPS damage point, the electrical corporation must enter a separate photo log record for each damaged asset photo or fuel bed photo that is being submitted. Photos must be named using the following convention:

UtilityName\_InspectorInitial\_PspsDamage\_YYYYMMDD\_PhotoNumber

For example: Utility\_AB\_PspsDamage\_20200703\_00001.jpg

If applicable/logical, an optional district ID value can be added between the utility name and inspector initial values:

UtilityName\_DistrictID\_InspectorInitial\_PspsDamage\_YYYYMMDD\_PhotoNumber

Field Name	Field Description
DamagedAsset PhotoID	Name for a photo of the damaged asset. Enables damaged asset photos to be linked to GIS data. Primary key for the PSPS Damage Photo Log table. Photos must be geotagged JPEG or PNG files. Use the following naming format:
	UtilityName _InspectorInitial_PspsDamage_YYYYMMDD_PhotoNumber. For example, "Utility_AB_PspsDamage_20220826_1.png".
	If applicable/logical, an optional district ID value can be added between the utility name and inspector initial values (e.g., "Utility_District_AB_PspsDamage_20220826_1.png"). This field OR FuelBedPhotoID is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: BVES HWT Liberty Liberty PacifiCorp PG&E SCE SDG&E TBC This field is required.
FuelBedPhotoID	<ul> <li>Name for a photo of the fuel bed below the damaged asset. Enables fuel bed photos to be linked to GIS data. A primary key for the PSPS Damage Photo Log related table. A primary key for the PSPS Damage Photo Log related table. A primary key for the PSPS Damage Photo Log related table. Photos must be geotagged JPEG or PNG files. Use the following naming format:</li> <li>UtilityName_InspectorInitial_PspsDamageFuelBed_YYYYMMDD_Photo#.</li> <li>For example, "Utility_AB_PspsDamageFuelBed_20220826_1.png".</li> <li>If applicable/logical, an optional district ID value can be added between the utility name and inspector initial values (e.g., "Utility_District_AB_PspsDamageFuelBed_20220826_1.png"). This field OR DamagedAssetPhotoID is required.</li> </ul>
DamageEventID	Foreign key to the damage point feature class. This field is required.

### 3.6.5.6.3 PSPS Event Log (Table)

Field Name	Field Description
EventID	A unique standardized ID for the unique event. Primary key enabling connection to PSPS event
	features. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:
	• BVES
	• HWT
	Liberty
	LS Power
	PacifiCorp
	• PG&E
	• SCE
	• SDG&E
	• TBC
	This field is required.
EOCActivationDateTime	Date and time the electrical corporation's emergency operations center (EOC) was activated.
	This field is required.
StartDateTime	Start date and time of the PSPS event. This field is required.
AllClearDateTime	Date and time that the weather event precipitating the PSPS event cleared the area, and the
	electrical corporation began inspection and restoration efforts. One value per record - if sub-
	areas of a single PSPS event were cleared at different times, create multiple records for that
	event. This field is required.
AllLoadUpDateTime	Date and time that the last customer (in the area represented by this record) was fully restored
	following the PSPS event. If there are multiple records for one PSPS event, this is not required to
	be the date/time of restoration for the last customer in the entire PSPS event. This field is
	required.
WindRisk	Was high wind a driving risk factor in the PSPS decision? Possible values:
	• Yes
	• No
	This field is required.
RelativeHumidityRisk	Was low relative humidity a driving risk factor in the PSPS decision? Possible values:
	• Yes
	• No
	This field is required.
TemperatureRisk	Was high temperature a driving risk factor in the PSPS decision? Possible values:
	• Yes
	• No
	This field is required.
VegetationRisk	Was a higher probability of vegetation interference a driving risk factor in the PSPS decision?
	Possible values:
	• Yes
	• No
	This field is required.

Was a higher probability of asset failure a driving risk factor in the PSPS decision? Possible values:
• Yes
• No
This field is required.
Was a high presence of dead fuel a driving risk factor in the PSPS decision? Possible values:
• Yes
• No
This field is required.
Was a high presence of live fuel a driving risk factor in the PSPS decision? Possible values:
Yes
• No
This field is required.
Was the presence of a Red Flag Warning risk day a driving factor in the PSPS decision? Possible
values:
• Yes
• No
This field is required.
Was some other form of risk (not covered by the fields above) a driving risk factor in the PSPS
decision? Possible values:
Yes
• No
This field is required.
Brief description of what the OtherRisk category is if there is a "Yes" value under the OtherRisk
field. Possible example statements include things like "vehicle collision," "reported ignition,"

#### 3.6.5.6.4 PSPS Event Other Asset Damage Detail (Table)

Using a one-to-many relationship, the electrical corporation must add as many related table records (per PSPS damage location point) as are necessary to provide information about each instance or instances of other asset damage (other than conductor or support structure damage) represented by a single point. If there is only one instance of other asset damage, the electrical corporation must use only one related table record. If there are multiple instances of damage in the same location represented by a single point, the electrical corporation must use one related table record per instance of other asset damage. The electrical corporation must report in the support structure damage detail, and not in this table, damage to crossarms, guys, and anchors.

Field Name	Field Description
PspsOadID	Primary key for the PSPS Event Other Asset Damage Detail table. This field is required.
DamageEventID	Unique ID for damage location. Foreign key enabling connection to the PSPS Event Damage Point feature class. This field is required.

UtilityID	Standardized identification name of the electrical corporation. Possible values: • BVES
	HWT
	Liberty
	Liberty     LS Power
	PacifiCorp
	<ul> <li>PG&amp;E</li> </ul>
	• SCE
	• SDG&E
	• TBC
	This field is required.
Asset	Specific type of asset that was damaged. This field is required.
AssetID	Unique ID for a specific point asset. Foreign key to the related asset point feature class
	attribute tables if the asset is recorded as a point feature. This field is required IF the
	affected asset is recorded as a point in data submitted to Energy Safety.
AssetFeature	Point feature where the damaged asset is found. Identifies which feature to join if the
	asset is recorded as a point feature. This field is required IF the affected asset is recorded
	as a point in data submitted to Energy Safety. Identifies the feature class where the segment or circuit ID should be found. Possible
LineClass	values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required if either SegmentID or CircuitID is populated.
SegmentID	Unique ID for the specific circuit segment associated with the damaged device. Foreign
	key to the asset line feature classes if the electrical corporation has persistent segment
	IDs. A segment may be anything more granular than a circuit, including a single span. This
	field OR CircuitID is required IF the damaged asset is associated with one particular
	circuit.
CircuitID	Unique ID for the specific circuit associated with the damaged device. Foreign key to the
	asset line features if the electrical corporation does not have persistent segment IDs.
	This field OR SegmentID is required IF the damaged asset is associated with one
	particular circuit.
Cause	High-level category for other asset damage cause. Possible values:
	Object contact
	Vegetation contact
	Equipment failure
	Contamination
	Vandalism/theft
	Lightning
	Unknown
	Other, see comment
	This field is required.
CauseComment	Cause category not listed above. This field is required IF Cause is "Other, see comment".

ObjectContact	Description of object involved in the contact if Cause is "Object contact." Possible values:
	Animal contact
	Balloon contact
	Land vehicle contact
	Aircraft vehicle contact
	3rd party contact
	• Other, see comment This field is required IF Cause is "Object Contact".
ObjectContactComment	Description of object contact not listed in the options above; or, any additional
	information about object contact. This field is required IF Cause is "Object Contact" AND
	ObjectContact is "Other, see comment".
AssociatedNominalVoltagekV	Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal
	places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal
	places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
ManufacturerModelID	The manufacturer and asset model specifications that would enable one to identify
	exactly what type of equipment was involved with the damage. Do not use acronyms or
	abbreviations for this field. Fully spell out the manufacturer and model names. This field
	is required.
ExemptionStatus	Is the asset exempt per California Public Resources Code (PRC) section 4292? Possible
	values:
	Yes
	• No
	• N/A
	The "N/A" option is only applicable outside of state responsibility area. This field is
	required.
LikelyArcing	Had the conductor been energized, would arcing have been likely because of the
LikelyArcing	damage? Possible values:
	Yes
	No     This field is as assisted
	This field is required.
VmInspectionDate	Date of vegetation inspection. This field is required IF Cause is "Vegetation contact".
VegetationGenus	Genus of vegetation. This field may be left null for palms and bamboo. This field is
	required IF Cause is "Vegetation contact" AND VegetationCommonName is not "Palm" or
	"Bamboo".
VegetationSpecies	Species of vegetation. Do not use "sp." except for the following genera: Acacia, Agave,
	Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa, Ceanothus, Citrus,
	Corymbia, Eucalyptus, Lagerstroemia, Ligustrum, Malus, Melaleuca, Photinia, Pittosporum,
	Podocarpus, Prunus, Pyrus, Salix, Strelitzia, Syzygium, Tamarix. This field may be filled out
	as "sp." or left null for the above genera and may be left null for palms and bamboo. This
	field is required IF Cause is "Vegetation contact" AND VegetationCommonName is not
	"Palm" or "Bamboo" AND VegetationGenus is not in the list above.

VegetationCommonName	Common name of vegetation. This field is not required except for palms and bamboo but may optionally be filled out for other vegetation. This field is required IF Cause is "Vegetation contact" AND the vegetation that made contact was a palm or bamboo species.
TreeHeight	If a tree was involved with the outage, enter a height estimate (in feet). This field is required IF Cause is "Vegetation contact".
TreeDiameter	If a tree was involved with the outage, enter tree diameter at breast height (in inches). This field is required IF Cause is "Vegetation contact"
TreeTrunkDistance	If a tree was involved with the outage, enter the horizontal distance (in feet) of the tree's trunk from the impacted power lines. This field is required IF Cause is "Vegetation contact".

#### 3.6.5.6.5 PSPS Event Support Structure Damage Detail (Table)

Using a one-to-many relationship, the electrical corporation must add as many related table records (per PSPS damage location point) as are necessary to provide information about each instance or instances of support structure asset damage represented by a single point. If there is only one instance of damage, the electrical corporation must use only one related table record. If there are multiple instances of damage in the same location represented by a single point, the electrical corporation must use one related table record per instance of damage. The electrical corporation must report in this table damage to any part of a support structure, including crossarms, guys, and anchors.

Field Name	Field Description
PspsSsdID	Primary key for the PSPS Event Support Structure Damage Detail table. This field is required.
DamageEventID	Unique ID for damage location. Foreign key enabling connection to the PSPS Event Damage Point feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values:         •       BVES         •       HWT         •       Liberty         •       LS Power         •       PacifiCorp         •       SCE         •       SDG&E         •       TBC         This field is required.
SupportStructureID	Unique ID for the damaged support structure. Foreign key to the Support Structure feature. This field is required.

Asset	Specific type of asset that is damaged. Possible values:
	• Pole
	Tower
	Other, see comment
	This field is required.
AssetComment	Asset not listed in the options above. This field is required IF Asset is "Other, see comment"
Cause	High-level category for support structure damage cause. Possible values:
	Object contact
	Vegetation contact
	Equipment failure
	Vandalism/theft
	Lightning
	Unknown
	Other, see comment
	This field is required.
CauseComment	Cause category not listed above. This field is required IF Cause is "Other, see comment".
ObjectContact	Description of object involved in the contact if the value of "Cause" is "Object contact". Possible values:
	Animal contact
	Balloon contact
	Land vehicle contact
	Aircraft vehicle contact
	3rd party contact
	Other, see comment
	This field is required IF Cause is "Object Contact".
ObjectContactComment	Description of object contact not listed in the options above; or, any additional information
	about object contact. This field is required IF Cause is "Object Contact" AND ObjectContact
	is "Other, see comment".
SupportStructureMaterial	Material of which support structure is made. Possible values:
	• Wood
	Metal
	Composite
	Wrapped wood
	Concrete
	Other, see comment
	This field is required.
MaterialComment	Support structure material not listed in the options above. This field is required IF
	SupportStructureMaterial is "Other, see comment".
LikelyArcing	Had the conductor been energized, would arcing have been likely because of the damage?
	Possible values:
	• Yes
	• No
	This field is required.

DamageDescription	<ul> <li>Description of damage. Possible values:</li> <li>Broken pole</li> <li>Damaged pole</li> <li>Broken tower</li> <li>Damaged tower</li> <li>Broken crossarm</li> <li>Damaged crossarm</li> <li>Broken/damaged down guy</li> <li>Broken/damaged anchor</li> <li>Other, see comment</li> <li>This field is required.</li> </ul>
DamageDescriptionComment	Damage category not listed in the options above and/or additional relevant details about damage. This field is required IF DamageDescription is "Other, see comment".
VmInspectionDate	Date of vegetation inspection. This field is required IF Cause is "Vegetation contact".
VegetationGenus	Genus of vegetation. This field may be left null for palms and bamboo. This field is required IF Cause is "Vegetation contact" AND VegetationCommonName is not "Palm" or "Bamboo".
VegetationSpecies	Species of vegetation. Do not use "sp." Except for the following genera: Acacia, Agave, Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa, Ceanothus, Citrus, Corymbia, Eucalyptus, Lagerstroemia, Ligustrum, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Pyrus, Salix, Strelitzia, Syzygium, Tamarix. This field may be filled out as "sp." or left null for the above genera and may be left null for palms and bamboo. This field is required IF Cause is "Vegetation contact" AND VegetationCommonName is not "Palm" or "Bamboo" AND VegetationGenus is not in the list above.
VegetationCommonName	Common name of vegetation. This field is not required except for palms and bamboo but may optionally be filled out for other vegetation. This field is required IF Cause is "Vegetation contact" AND the vegetation that made contact was a palm or bamboo species.
TreeHeight	If a tree was involved with the outage, enter a height estimate (in feet). This field is required IF Cause is "Vegetation contact".
TreeDiameter	If a tree was involved with the outage, enter tree diameter at breast height (in inches). This field is required IF Cause is "Vegetation contact".
TreeTrunkDistance	If a tree was involved with the outage, enter the horizontal distance (in feet) of the tree's trunk from the impacted power lines. This field is required IF Cause is "Vegetation contact".

# 3.6.6 Risk Event (Feature Dataset)

## 3.6.6.1 Overview for Risk Events

This dataset contains feature classes for wire down events, unplanned outages, and ignitions. The ignition and wire down feature classes are related to the "Risk Event Photo Log" related table. Photos are required for the ignition points and encouraged but optional for wire down locations.

### 3.6.6.2 Ignition (Point Feature Class)

Photos are required to accompany this feature class. The electrical corporation must submit at least one photo for each location where an ignition started. The electrical corporation must enter "PhotoID" and "IgnitionID" values in the "Risk Event Photo Log" related table to ensure photos can be linked to their associated GIS points. At least one photo must show the full extent of utility infrastructure associated with the ignition (i.e., an overall photo of the scene). If the "SuspectedInitiatingCause" is "Vegetation Contact" then the "VegetationGenus", "VegetationSpecies", and "VegetationCommonName" fields must be filled out subject to general requirements for vegetation data in section 3.7. In addition, if the "SuspectedInitiatingCause" is "Vegetation Contact", at least one photo must show the tree, shrub, other vegetation implicated in causing ignition. or the If the "SuspectedInitiatingCause" is "Equipment Failure", at least one photo must show a close-up photo of the piece of equipment suspected to have caused the ignition.

Field Name	Field Description
IgnitionID	Unique ID for the ignition event. Primary key for the Ignition feature. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: BVES HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC This field is required.
SubstationID	Unique ID of the substation supplying the involved circuit. Foreign key to the Substation feature. This field is required.
NearestWeatherStationID	Unique ID of weather station closest to the ignition location. Foreign key to the Weather Station feature. This field is required.
OutageID	Foreign key to the Outage feature. Identifies an outage associated with the ignition if one occurred (see Outage Status). This field is required IF OutageStatus is "Yes".
OutageStatus	Was there an outage associated with the event? Possible values: <ul> <li>Yes</li> <li>No</li> </ul> This field is required.
FireStartDateTime	Date and time of ignition. This field is required.
FireStartYear	The year that the ignition occurred. Use four digits. This field is required.

See Appendix B of this document for the definition of a reportable ignition.

FireDetectionMethod	The method by which the electrical corporation first learned of the ignition event.         Possible values:         • Public         • Satellite         • Camera         • Utility staff         • Fire agency         • Other, see comment         This field is required.
FireDetectionMethodComment	Fire detection method description not listed in the options above. This field is required IF FireDetectionMethod is "Other, see comment".
SuspectedInitiatingCause	<ul> <li>The suspected initiating event of the ignition. Possible values:</li> <li>Dig-in</li> <li>Object contact</li> <li>Vegetation contact</li> <li>Equipment failure</li> <li>Wire-to-wire contact</li> <li>Contamination</li> <li>Protective device operation</li> <li>Vandalism/theft</li> <li>Lightning</li> <li>Unknown</li> <li>Other, see comment</li> <li>"Object contact" only to be used for objects other than vegetation, do not use for vegetation contact. This field is required.</li> </ul>
SuspectedInitiatingCauseComment	Suspected ignition initiating event that is not listed in the options above. This field is required IF SuspectedInitiatingCause is "Other, see comment".
ObjectContact	<ul> <li>Description of object involved in contact if "SuspectedInitiatingCause" is "Object contact". If the object involved in the contact is not in the list below, use the "Other, see comment" value and input an appropriate comment in the "ObjectContactComment" field. Possible values: <ul> <li>Animal contact</li> <li>Balloon contact</li> <li>Land vehicle contact</li> <li>Aircraft vehicle contact</li> <li>3rd party facility</li> <li>Other, see comment</li> </ul> </li> <li>This field is required IF SuspectedInitiatingCause is "Object contact".</li> </ul>
ObjectContactComment	Description of object contact not listed in the options above; or any additional information about object contact. This field is required IF SuspectedInitiatingCause is "Object contact" AND ObjectContact is "Other, see comment".
VegetationGenus	Genus of vegetation. This field may be left null for palms and bamboo. This field is required IF SuspectedInitiatingCause is "Vegetation contact" AND VegetationCommonName is not "Palm" or "Bamboo".

VegetationSpecies	Species of vegetation. Do not use "sp." except for the following genera: Acacia,
	Agave, Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa,
	Ceanothus, Citrus, Corymbia, Eucalyptus, Lagerstroemia, Ligustrum, Malus,
	Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Pyrus, Salix, Strelitzia,
	Syzygium, Tamarix. This field may be filled out as "sp." or left null for the above
	genera and may be left null for palms and bamboo. This field is required IF Cause
	is "Vegetation contact" AND VegetationCommonName is not "Palm" or
	"Bamboo" AND VegetationGenus is not in the list above.
VegetationCommonName	Common name of vegetation. This field is not required except for palms and
regetation common value	bamboo but may optionally be filled out for other vegetation. This field is required IF SuspectedInitiatingCause is "Vegetation contact" AND the vegetation that made
EquipmontEpiluro	contact was a palm or bamboo species.
EquipmentFailure	<ul> <li>Description of equipment that failed. Possible values:</li> <li>Anchor/guy</li> </ul>
	Capacitor bank
	Conductor
	Connector device
	Crossarm
	• Fuse
	Cutout
	Insulator and bushing
	Lightning arrester
	Pole
	Recloser
	Relay
	Sectionalizer
	<ul> <li>Splice</li> <li>Switch</li> </ul>
	• Tap
	• Tie wire
	Transformer
	Voltage regulator/booster
	Other, see comment
	This field is required IF SuspectedInitiatingCause is "Equipment failure".
EquipmentFailureComment	Description of equipment not listed in the domain for the EquipmentFailure field. This field is required IF SuspectedInitiatingCause is "Equipment failure" AND EquipmentFailure is "Other, see comment".
AssociatedNominalVoltagekV	Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
OtherCompanies	Companies (other than the electrical corporation submitting data) that had assets affected by the ignition event. These may include telephone, internet, and other service providers with equipment on affected infrastructure, if any. Enter "N/A" if no other companies were affected. This field is required.
EquipmentType	<ul> <li>The type of equipment involved in the ignition event. Possible values:</li> <li>Overhead</li> <li>Pad-mounted</li> <li>Subsurface</li> <li>This field is required.</li> </ul>

Determination	<ul> <li>The entity relied upon to make the determination that was used to fill in the value of the SuspectedInitiatingCause field above. Possible values: <ul> <li>Utility personnel</li> <li>Fire agency</li> <li>Other, see comment</li> </ul> </li> <li>This field is required.</li> </ul>
DeterminationComment	Determination entity not listed in the options above. This field is required IF Determination is "Other, see comment".
FacilityContactedComment	The first facility that was contacted by an outside object. Only to be used if SuspectedInitiatingCause is "Object contact" or "Vegetation Contact Possible values: Bushing mounted cutout Capacitor bank Communications line Conductor: Primary Conductor: Primary Conductor: Transmission Crossarm Fuse Guy/span wire Insulator Jumper Support structure Pothead Recloser Riser Service connector Service connector Splice/clamp/connector Switch Tie wire Transformer Voltage regulator Other, see comment This field is required if SuspectedInitiatingCause is "Object Contact" or
FacilityContactedComment	Any contacted facility that does not fall in the list above. If multiple facilities from the list above were contacted, list them here. This field is required IF SuspectedInitiatingCause is "Object contact" or "Vegetation contact AND FacilityContacted is "Other, see comment".
AssetID	Foreign key to the asset point feature classes. Identifies a specific asset involved in the ignition, if any (see Suspected Initiating Cause). This field is required IF any asset recorded as a point in data submitted to Energy Safety was involved in the ignition.
Asset Feature	Identifies the feature class where the asset ID should be found. Possible values: <ul> <li>Connection Device</li> <li>Fuse</li> <li>Lightning Arrester</li> <li>Support Structure</li> <li>Switchgear</li> <li>Transformer Site</li> </ul> This field is required IF AssetID is populated.

SegmentID	Identifies the circuit segment involved in the ignition, if any. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs.
	A segment may be anything more granular than a circuit, including a single span.
	This field is required IF a segment of conductor was involved in the ignition AND
	the electrical corporation has persistent stable IDs for circuit segments.
CircuitID	Identifies the circuit involved in the ignition, if any. Foreign key to the asset line
Circuitib	features if the electrical corporation does not have persistent unique segment IDs.
	This field is required IF a segment of conductor was involved in the ignition AND
	SegmentID is not populated.
LineClass	Identifies the feature class where the segment or circuit ID should be found.
LITECIASS	Possible values:
	Transmission Line
	<ul> <li>Primary Distribution Line</li> </ul>
	Secondary Distribution Line This field is as a size of the Generative August and the Genera
	This field is required IF SegmentID or CircuitID is populated.
ContributingFactor	Factors suspected as contributing to the ignition. Possible values:
	• Weather
	External Force
	Human Error
	Other, see comment
	This field is optional.
ContributingFactorComment	Contributing factor description not listed in the options above. This field is
	required IF ContributingFactor is "Other, see comment".
RFWStatus	Was there a red flag warning (RFW) issued by the National Weather Service (NWS)
	in effect at the ignition location at the time of ignition? Possible values:
	• Yes
	• No
	This field is required.
RFWIssueDateTime	The date and time when the NWS issued the RFW in effect at the ignition location
	at the time of the ignition. Leave null if there was no RFW in effect at the time of
	ignition at the ignition location.
	This field is required IF RFWStatus is "Yes".
FWWStatus	Was there a fire weather watch (FWW) issued by the National Weather Service
	(NWS) in effect at the ignition location at the time of ignition? Possible values:
	Yes
	• No
	This field is required.
FWWIssueDateTime	The date and time when the NWS issued the FWW in effect at the ignition location
i www.ssuebaterinie	at the time of the ignition event. Leave null if there was no FWW in effect at the
	time of ignition at the ignition location.
	This field is required IF FWWStatus is "Yes".
	· · ·
HWWStatus	Was there a high wind warning (HWW) issued by the NWS in effect at the ignition
	location at the time of ignition? Possible values:
	• Yes
	• No
	This field is required.
HWWIssueDateTime	
HWWIssueDateTime	The date and time when the NWS issued the HWW in effect at the ignition location
HWWIssueDateTime	The date and time when the NWS issued the HWW in effect at the ignition location
HWWIssueDateTime	The date and time when the NWS issued the HWW in effect at the ignition location at the time of the ignition. Leave null if there was no HWW in effect at the time of
	The date and time when the NWS issued the HWW in effect at the ignition location at the time of the ignition. Leave null if there was no HWW in effect at the time of ignition at the ignition location. This field is required IF HWWStatus is "Yes".
	The date and time when the NWS issued the HWW in effect at the ignition location at the time of the ignition. Leave null if there was no HWW in effect at the time of ignition at the ignition location.
HWWIssueDateTime OriginLandUse	<ul> <li>The date and time when the NWS issued the HWW in effect at the ignition location at the time of the ignition. Leave null if there was no HWW in effect at the time of ignition at the ignition location.</li> <li>This field is required IF HWWStatus is "Yes".</li> <li>Status of land at origin of ignition. Possible values:         <ul> <li>Rural</li> </ul> </li> </ul>
	<ul> <li>The date and time when the NWS issued the HWW in effect at the ignition location at the time of the ignition. Leave null if there was no HWW in effect at the time of ignition at the ignition location.</li> <li>This field is required IF HWWStatus is "Yes".</li> <li>Status of land at origin of ignition. Possible values:         <ul> <li>Rural</li> <li>Urban</li> </ul> </li> </ul>
	<ul> <li>The date and time when the NWS issued the HWW in effect at the ignition location at the time of the ignition. Leave null if there was no HWW in effect at the time of ignition at the ignition location.</li> <li>This field is required IF HWWStatus is "Yes".</li> <li>Status of land at origin of ignition. Possible values:         <ul> <li>Rural</li> </ul> </li> </ul>

MaterialAtOrigin	<ul> <li>Fuel material for the ignition origin, Possible values:</li> <li>Vegetation</li> <li>Structure</li> <li>Other, see comment</li> <li>This field is required.</li> </ul>
MaterialAtOriginComment	Origin material not listed in the options above. This field is required IF MaterialAtOrigin is "Other, see comment".
FuelBedDescription	<ul> <li>Type of fuel bed existing under damage location. Possible values:</li> <li>Fire-resistive fuel bed</li> <li>Grass fuel model</li> <li>Brush fuel model</li> <li>Other, see comment</li> <li>This field is required.</li> </ul> Definitions: <ul> <li>Fire-resistive fuel bed: Fuel bed not conducive to propagating (e.g., asphalt, concrete, gravel, etc.).</li> <li>Grass fuel model: Fuel bed comprised of annual grasses</li> <li>Brush fuel model - Fuel bed comprised of mainly brush or shrubs (e.g., chamise, manzanita, chaparral, scotch broom, etc.).</li> <li>Timber fuel model - Fuel bed comprised of timber or timber litter (e.g., forests, timber litter, logging slash, etc.).</li> </ul>
FuelBedDescriptionComment	Fuel bed description not listed in the options above. This field is required IF FuelBedDescription is "Other, see comment".
FireSize	Size, in acres unless otherwise indicated, of fire resulting from the ignition. Possible values: Structure-only <pre>     </pre> <pre></pre>
SuppressedBy	Entity responsible for suppressing ignition. Possible values: <ul> <li>Customer</li> <li>Fire agency</li> <li>Self-extinguished</li> <li>Utility</li> <li>Unknown</li> </ul> This field is required.
SuppressingAgency	If the "SupressedBy" field has the value of "Fire Agency", enter the fire department name. This field is required IF SuppressedBy is "Fire Agency".

FireInvestigation	<ul> <li>Whether the fire authority having jurisdiction investigated the ignition and the status of the investigation. Possible values: <ul> <li>Yes, complete</li> <li>Yes, pending</li> <li>No</li> </ul> </li> <li>This field is required.</li> </ul>
FireAHJ	If there was an investigation of the ignition by a fire authority having jurisdiction, enter the fire agency name. This field is required IF FireInvestigation is "Yes, complete" OR "Yes, pending".
IgnitionNotes	Any additional information about the ignition event. This field is optional.
HFTDClass	<ul> <li>The CPUC high-fire threat district (HFTD) area the ignition event intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: <ul> <li>Tier 3</li> <li>Tier 2</li> <li>Non-HFTD</li> </ul> </li> <li>HFTD data can be downloaded from: <a href="https://ia.cpuc.ca.gov/firemap">https://ia.cpuc.ca.gov/firemap</a>. This field is required.</li> </ul>
Latitude	Latitude of event point (in decimal degrees). Field-calculate in GIS software. This field is required.
Longitude	Longitude of event point (in decimal degrees). Field-calculate in GIS software. This field is required.

# 3.6.6.3 Unplanned Outage (Point Feature Class)

# The electrical corporation must include all unplanned outages.

Field Name	Field Description
OutageID	The unique ID for outage event. Primary key for the Transmission Unplanned Outage feature class. This field is required.
Outage Class	<ul> <li>Identifies the line class of the outage. Possible values:</li> <li>Transmission</li> <li>Distribution</li> <li>Sub-transmission should be described as "Transmission". This field is required.</li> </ul>
UtilityID	Standardized identification name of the electrical corporation. Possible values: BVES HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC This field is required.
SubstationID	Unique ID for the source substation feeding the circuit impacted by the outage. Foreign key to Substation feature. This field is required.

BasicCause	High-level category for event cause. Possible values:         Dig-in         Fire         Object contact         Vegetation contact         Equipment failure         Wire-to-wire contact         Contamination         Vandalism/theft         Lightning         Government agency request         Customer request         Emergency repairs         Unknown         Other, see comment
BasicCauseComment	This field is required. Basic cause description not listed in the options above, or any additional information regarding cause (unless additional info is regarding object contact or equipment failure, which have their own comment fields). This field is required IF BasicCause is "Other, see comment".
BasicCauseObject	<ul> <li>Description of object involved in contact. Only applicable if BasicCause is "Object contact." If the object involved in the contact is not in the list below, use the "Other, see comment" value and input an appropriate comment in the BasicCauseObjectComment field. Possible values: <ul> <li>Animal contact</li> <li>Balloon contact</li> <li>Land vehicle contact</li> <li>Aircraft vehicle contact</li> <li>3rd party contact</li> <li>Other, see comment</li> </ul> </li> <li>This field is required IF BasicCause is "Object contact".</li> </ul>
BasicCauseObjectComment	Basic cause object description not listed in the options above, or any additional information about object contact. This field is required IF BasicCause is "Object contact" AND BasicCauseObject is "Other, see comment".

FacilityContacted	The first facility that was contacted by an outside object. Only to be used if Basic Cause is "Object contact" or "Vegetation contact". Possible values: Bushing mounted cutout Capacitor bank Communications line Conductor: Primary Conductor: Secondary Conductor: Transmission Crossarm Fuse Guy/span wire Insulator Jumper Support structure Pothead Recloser Riser Service connector Service drop Splice/clamp/connector Switch Tie wire Transformer Voltage regulator Other, see comment This field is required IF BasicCause is "Object contact" or "Vegetation contact".
FacilityContactedComment	Any contacted facility that does not fall in the list above. If multiple facilities from the list above were contacted, list them here. This field is required IF BasicCause is "Object contact" AND FacilityContacted is "Other, see comment".
EquipmentFailure	Description of equipment that failed. Possible values: Anchor/guy Capacitor bank Conductor Connector device Crossarm Fuse Cutout Insulator and bushing Lightning arrester Pole Recloser Relay Sectionalizer Splice Switch Tap Tie wire Transformer Voltage regulator/booster Other, see comment This field is required IF BasicCause is "Equipment failure".

EquipmentFailureComment	Description of equipment not listed in the domain for the Equipment failure field. This field is required IF BasicCause is "Equipment failure" AND EquipmentFailure is "Other, see comment".
AssetID	ID for specific asset involved in causing the outage, if any (see Suspected Initiating Cause). Foreign key to the asset point feature classes. This field is required IF any asset recorded as a point in data submitted to Energy Safety was involved in causing the outage.
Asset Feature	Identifies the feature class where the asset ID should be found. Possible values: Connection Device Fuse Lightning Arrester Support Structure Switchgear Transformer Site This field is required IF AssetID is populated.
SegmentID	ID of the circuit segment involved in the outage. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs. A segment may be anything more granular than a circuit, including a single span. This field is required IF a segment of conductor was damaged or failed AND the electrical corporation has persistent stable IDs for circuit segments.
CircuitID	ID of the circuit involved in the outage. Foreign key to the asset line features if the electrical corporation does not have persistent unique segment IDs. This field is required IF a segment of conductor was damaged or failed AND SegmentID is not populated.
LineClass	<ul> <li>Identifies the feature class where the segment or circuit ID should be found.</li> <li>Possible values: <ul> <li>Transmission Line</li> <li>Primary Distribution Line</li> <li>Secondary Distribution Line</li> </ul> </li> <li>This field is required IF SegmentID or CircuitID is populated.</li> </ul>
ExpulsionFuseOperation	<ul> <li>Did an expulsion fuse operate during the outage? Possible values:</li> <li>Yes</li> <li>No</li> <li>This field is required.</li> </ul>
OutageDescription	Description or additional information for the outage. This field is optional.
EventYear	The year outage started. Use four digits. This field is required.
OutageStartDateTime	The date and time outage started. This field is required.
OutageEndDateTime	The date and time of full restoration. This field is required.
OutageDuration	The total time to restore all customers, from the first customer out, in minutes. This field is required.
CustomerMinutesInterrupted	Total customer-minutes interrupted associated with the outage. Do not more than two decimal places. This field is required.
CustomersOutMomentary	Total number of unique customers that experienced an outage lasting 5 minutes or less. <i>Note: The electrical corporation may use a different definition</i> <i>of "momentary" – if so, specify in the "OutageIntervalAlternativeDefinition"</i> <i>field.</i> This field is required.
CustomersOutSustained	Total number of unique customers that experienced an outage lasting longer than 5 minutes. <i>Note: The electrical corporation may use a different</i> <i>definition of "momentary" – if so, specify in the</i> <i>"OutageIntervalAlternativeDefinition" field.</i> This field is required.

CustomerCount	The total number of customers impacted by the outage. May not be the sum of the values in the "CustomersOutSustained" and "CustomersOutMomentary" fields (some customers may experience both in the same event – do not double count). This field is required.
OutageInterval	<ul> <li>Indication of whether the subject outage was momentary (i.e., 5 minutes or less) or sustained (i.e., longer than 5 minutes). Possible values:         <ul> <li>Momentary</li> <li>Sustained</li> </ul> </li> <li>Note: The electrical corporation may use a different definition of "momentary"         <ul> <li>if so, specify in the "OutageIntervalAlternativeDefinition" field. This field is required.</li> </ul> </li> </ul>
OutageIntervalAltDefinition	If the electrical corporation uses a different definition of "momentary" than specified above (5 minutes or less), specify the alternative definition here. This field is optional.
AssociatedNominalVoltagekV	Voltage (in kilovolts) associated with outage. Do not use more than two decimal places. This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. This field is required.
OtherCompanies	Companies (other than the electrical corporation submitting data) that had assets affected by the outage event. These may include telephone, internet, and other service providers with equipment on affected infrastructure, if any. Enter "N/A" if no other companies were affected. This field is required.
RecloserSetting	If the subject circuit is equipped with reclosing capabilities, indicate whether the reclose function was enabled or disabled at the time of the outage. If the subject circuit is not equipped with reclosing capabilities, enter "N/A." Possible values: Enabled N/A This field is required.
RapidFaultSetting	Identify whether rapid fault detection settings were used for this outage (aka EPSS, fast trip, fast curve, etc.). Possible values: • Yes • No This field is required.
IsolationDeviceType	Type of protective device that operated. Possible values: <ul> <li>Circuit breaker</li> <li>Fuse</li> <li>Recloser</li> <li>Switch</li> <li>N/A</li> <li>Other, see comment</li> </ul> Use "N/A" only where no device operated. This field is required.
IsolationDeviceTypeComment	Isolation device type description not listed in the options above. This field is required IF IsolationDeviceType is "Other, see comment".
MajorEventDay	If all outages on a certain date exceed a statistical limit called Major Event Day (MED), this flag is set against outages associated with that day and typically excluded from certain types of reports. Possible values: • Yes • No This field is required.
LocationOrAddress	Address or location description for the outage location. This field is optional.

HFTDClass	<ul> <li>The CPUC high-fire threat district (HFTD) area the outage intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: <ul> <li>Tier 3</li> <li>Tier 2</li> <li>Non-HFTD</li> </ul> </li> <li>HFTD data can be downloaded from: <a href="https://ia.cpuc.ca.gov/firemap">https://ia.cpuc.ca.gov/firemap</a>. This field is required.</li> </ul>
VmOutageDescription	Description or additional information for outage events caused by vegetation. This field is optional.
VmInspectionDate	Date of vegetation inspection. This field is required IF BasicCause is "Vegetation contact".
VegetationGenus	Genus of vegetation. This field may be left null for palms and bamboo. This field is required if BasicCause is "Vegetation contact"
VegetationSpecies	Species of vegetation. Do not use "sp." Except for the following genera: Acacia, Agave, Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa, Ceanothus, Citrus, Corymbia, Eucalyptus, Lagerstroemia, Ligustrum, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Pyrus, Salix, Strelitzia, Syzygium, Tamarix. This field may be filled out as "sp." Or left null for the above genera and may be left null for palms and bamboo. This field is required IF BasicCause is "Vegetation contact" AND VegetationCommonName is not "Palm" or "Bamboo" AND VegetationGenus is not in the list above.
VegetationCommonName	Common name of vegetation. This field is not required except for palms and bamboo but may optionally be filled out for other vegetation. This field is required IF BasicCause is "Vegetation contact" AND the vegetation that made contact was a palm or bamboo species.
TreeHeight	If a tree was involved with the outage, enter a height estimate (in feet). This field is required IF BasicCause is "Vegetation contact".
TreeDiameter	If a tree was involved with the outage, enter tree diameter at breast height (in inches). This field is required IF BasicCause is "Vegetation contact".
TreeTrunkDistance	If a tree was involved with the outage, enter the horizontal distance (in feet) of the tree's trunk from the impacted power lines. This field is required IF BasicCause is "Vegetation contact".
RFWDay	<ul> <li>Did the outage occur (begin) during a red flag warning? Possible Values:</li> <li>Yes</li> <li>No</li> <li>This field is required.</li> </ul>

### *3.6.6.4 Wire Down Event (Point Feature Class)*

The electrical corporation must submit a record for each circuit with wires down (submit multiple points if multiple circuits are down at the same location). If submitting photos, the electrical corporation must submit a photo for each point location where a wire down event occurred. Enter "PhotoID" and "WireDownID" values in the "Risk Event Photo Log" table to ensure photos can be linked to their associated GIS points.

Field Name	Field Description
WireDownID	Unique ID for the wire down event. Primary key for the Wire Down Event feature. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: <ul> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> <li>SDG&amp;E</li> <li>TBC</li> </ul> This field is required.
OutageStatus	<ul> <li>Was there an outage associated with the event? Possible values:</li> <li>Yes</li> <li>No</li> <li>This field is required.</li> </ul>
OutageID	Foreign key to the Unplanned Outage feature class. Identifies an outage event associated with the wire down event. This field is required IF OutageStatus is "Yes".
AssetID	Foreign key to the asset point features. Identifies any asset damaged during the wire down event. This field is required IF any asset recorded as a point in data submitted to Energy Safety was damaged.
AssetFeature	Identifies the feature class where the asset ID should be found. Possible values: <ul> <li>Connection Device</li> <li>Fuse</li> <li>Lightning Arrester</li> <li>Support Structure</li> <li>Switchgear</li> <li>Transformer Site</li> </ul> This field is required IF AssetID is populated.
SegmentID	ID of circuit segment affected by the wire down event. Foreign key to the asset line features if the electrical corporation has persistent unique segment IDs. A segment may be anything more granular than a circuit, including a single span. This field OR CircuitID is required.
CircuitID	ID of circuit affected by the wire down event. Foreign key to the asset line features if the electrical corporation does not have persistent unique segment IDs. This field OR SegmentID is required.

LineClass	Identifies the feature class where the segment or circuit ID should be found. Possible values:
	Transmission Line
	Primary Distribution Line
	Secondary Distribution Line
	This field is required.
WireDownDate	The start date of the wire down event. This field is required.
WireDownYear	The year that the risk event occurred. Use four digits. This field is required.
Cause	High-level category for wire down event cause. Possible values:         •         Fire         •         Object contact         •
	• Other, see comment "Object contact" only to be used for objects other than vegetation, do not use for vegetation contact. This field is required.
CauseComment	Wire down cause description not listed in the options above. This field is required IF Cause is "Other, see comment".
ObjectContact	<ul> <li>Description of object involved in the contact if "Cause" is "Object contact." If the object involved in the contact is not in the list below, use the "Other, see comment" value and input an appropriate comment in the "ObjectContactComment" field. Possible values:         <ul> <li>Animal contact</li> <li>Balloon contact</li> <li>Land vehicle contact</li> <li>Aircraft vehicle contact</li> </ul> </li> </ul>
	<ul><li> 3rd party contact</li><li> Other, see comment</li></ul>
	This field is required IF Cause is "Object contact".
ObjectContactComment	Description of object contact not listed in the options above; or any additional information about object contact. This field is required IF Cause is "Object contact" AND ObjectContact is "Other, see comment".

EquipmentFailure	Description of equipment that failed. Possible values:
	Anchor/guy
	Capacitor bank
	Conductor
	Connector device
	Crossarm
	• Fuse
	Cutout
	Insulator and bushing
	<ul> <li>Lightning arrester</li> <li>Pole</li> </ul>
	Recloser
	• Relay
	Sectionalizer
	• Splice
	• Switch
	• Тар
	Tie wire
	Transformer
	Voltage regulator/booster
	Other, see comment
	This field is required IF Cause is "Equipment failure".
EquipmentFailureComment	Description of equipment not listed in the domain for the EquipmentFailure field. This
	field is required IF Cause is "Equipment failure" AND EquipmentFailure is "Other, see
	comment".
FacilityContacted	The first facility that was contacted by an outside object. Only to be used if Cause is
	"Object contact" or "Vegetation contact". Possible values:
	Bushing mounted cutout
	Capacitor bank
	Communications line
	Conductor: Primary
	Conductor: Secondary
	Conductor: Transmission
	Crossarm
	• Fuse
	Guy/span wire
	• Insulator
	• Jumper
	Support structure
	Pothead
	Recloser
	Riser
	Service connector
	Service connector     Service drop
	<ul> <li>Service drop</li> <li>Splice/clamp/connector</li> </ul>
	Switch
	Tie wire
	Transformer     Voltage regulator
	Voltage regulator     Other are commont
	• Other, see comment
	This field is required IF Cause is "Object contact" or "Vegetation contact".
FacilityContactedComment	Description of facility not listed in the domain for the FacilityContacted field. If multiple
	facilities from the list above were contacted, list them here. This field is required IF Cause
	is "Object contact" or "Vegetation contact" AND FacilityContacted is "Other, see
	comment".

VegetationGenus	Genus of vegetation. This field may be left null for palms and bamboo. This field is required IF Cause is "Vegetation contact" AND VegetationCommonName is not "Palm" or "Bamboo".
VegetationSpecies	Species of vegetation. Do not use "sp." except for the following genera: Acacia, Agave, Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa, Ceanothus, Citrus, Corymbia, Eucalyptus, Lagerstroemia, Ligustrum, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Pyrus, Salix, Strelitzia, Syzygium, Tamarix. This field may be filled out as "sp." or left null for the above genera and may be left null for palms and bamboo. This field is required IF Cause is "Vegetation contact" AND VegetationCommonName is not "Palm" or "Bamboo" AND VegetationGenus is not in the list above.
VegetationCommonName	Common name of vegetation. This field is not required except for palms and bamboo but may optionally be filled out for other vegetation. This field is required IF Cause is "Vegetation contact" AND the vegetation that made contact was a palm or bamboo species.
AssociatedNominalVoltagekV	Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. OK to use ranges (e.g., "0-60", "<500"). This field is required.
SpanLength	Length of the affected span in feet. This field is required.
TotalSplices	The total number of splices in the span of conductor involved in the wire down event. In the event of wire down events occurring over multiple spans, include the total number of splices in all failed spans. This field is required.
MaxSplices	The maximum number of splices in an individual phase conductor involved in the wire down event. This field is required.
MultipleDown	Was more than one span of conductors impacted by the wire down event? Possible values: • Yes • No This field is required.
ConductorMaterial	<ul> <li>Material of the conductor that failed in the wire down event. Possible values: <ul> <li>All aluminum conductor (AAC)</li> <li>All aluminum alloy conductor (AAAC)</li> <li>Aluminum conductor aluminum reinforced (ACAR)</li> <li>Aluminum conductor steel reinforced (ACSR)</li> <li>Aluminum conductor steel supported (ACSS)</li> <li>Copper (Cu)</li> <li>Other, see comment</li> </ul> </li> <li>This field is required.</li> </ul>
ConductorMaterialComment	Conductor material description not listed in the options above. This field is required IF ConductorMaterial is "Other, see comment".
ConductorSize	Size (e.g., No. 4, 1/0, etc.) of the conductor involved in the incident, in AWG or KCMIL. This field is required.
ConductorOD	Overall diameter of the conductor, in inches. This field is required.
ConductorRating	The nominal ampacity rating of the conductor involved in the wire down event in amperes. This field is required.
Energized	<ul> <li>Was the conductor energized while in contact with a grounded object during the event?</li> <li>If the wire down event did not result in contact with a grounded object, then enter "N/A" for this field. Possible values: <ul> <li>Yes</li> <li>No</li> <li>N/A</li> </ul> </li> <li>This field is required.</li> </ul>

IgnitionStatus	<ul> <li>Was there an ignition associated with the wire down event? Possible values:</li> <li>Yes</li> <li>No</li> <li>This field is required.</li> </ul>
IgnitionID	Foreign key to the Ignition feature class. Identifies an ignition associated with the wire down event, if one occurred (see Ignition Status). This field is required IF IgnitionStatus is "Yes".
WireDownNotes	Additional information or notes available for the wire down event and not captured in other fields. This field is optional.
HFTDClass	<ul> <li>The CPUC high-fire threat district (HFTD) area the outage intersects. For these data, anything outside Tiers 2 and 3 must be categorized as "Non-HFTD." Do not record any Zone 1 or Tier 1 values. Possible values:         <ul> <li>Tier 3</li> <li>Tier 2</li> <li>Non-HFTD</li> </ul> </li> </ul>
	HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> . This field is required.

#### 3.6.6.5 Risk Event Photo Log (Table)

In this table, enter information about photos that accompany particular risk event feature classes. If more than one photo is applicable to an individual risk event point, enter a separate record for each photo that is being submitted.

For ignitions: include at least one photo of damaged asset (if any); at least one photo of fuel bed; at least one photo from a perspective that shows all related equipment (e.g., for ignitions involving equipment on poles, if other photos do not show entire pole with all equipment, take one photo that shows this).

Photos must be named using the following convention:

UtilityName\_InspectorInitial\_RiskEvent\_YYYYMMDD\_PhotoNumber

For example: Utility\_AB\_Ignition\_20200703\_00001.jpg

If applicable/logical, an optional district ID value can be added between the utility name and inspector initial values:

UtilityName\_DistrictID\_InspectorInitial\_RiskEvent\_YYYYMMDD\_PhotoNumber

Field Name	Field Description
PhotoID	Name for a photo of the risk event location. Enables a risk event photo to be linked to GIS data. Primary key for the Risk Event Photo Log related table.
	Photos must be JPEG or PNG files. Use the following naming format: UtilityName _InspectorInitial_RiskEvent_YYYYMMDD_PhotoNumber. For example, "Utility_AB_PspsDamage_20220826_1.png".
	If applicable/logical, an optional district ID value can be added between the utility name and inspector initial values (e.g., "Utility_District_AB_RiskEvent_20220826_1.png"). This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: <ul> <li>BVES</li> <li>HWT</li> <li>Liberty</li> <li>LS Power</li> <li>PacifiCorp</li> <li>PG&amp;E</li> <li>SCE</li> </ul>
	<ul> <li>SDG&amp;E</li> <li>TBC</li> <li>This field is required.</li> </ul>
IgnitionID	Foreign key to the Ignition feature class. This field OR WireDownID is required.
WireDownID	Foreign key to the Wire Down Event feature class. This field OR IgnitionID is required.



# 4. TABULAR WILDFIRE MITIGATION DATA



# 4.1 Overview

The electrical corporation must both comply with the requirements detailed in this section and use the required Wildfire Mitigation Data Tables template workbooks to implement the required Tabular Wildfire Mitigation Data schema.

# **4.2 Data Submission Requirements**

The data submitted by the electrical corporation must comply with each of the following requirements:

- Completeness The electrical corporation must report on each metric contained in each table of each Energy Safety Wildfire Mitigation Data template workbook detailed in Section 4.3.1, below, except where a section pertaining to a given table of the template workbooks specifies otherwise. Where the electrical corporation does not collect its own data on a given metric, the electrical corporation must work with the relevant state agencies to collect the relevant information for its service territory and clearly identify the owner and dataset used to provide the response in the "Comments" column.
- **Comparability** For fields where acceptable values are defined by Energy Safety, the electrical corporation must adhere to the acceptable values provided in these Guidelines including the Energy Safety Wildfire Mitigation Data template workbooks. The electrical corporation must not add any extraneous characters or white spaces. Field value restrictions are provided at the field level in Section 4.3.
- **Empty Fields** The electrical corporation must differentiate between data which are "zero," "missing," or "not applicable" as follows:
  - o Zeros Data that are zero must be filled out as "0"
  - Missing or Not Applicable Required data that are missing or not applicable must be provided as empty fields. The "Blank Meaning" column at the end of each table must be used to indicate whether the field is blank because the data is missing, or the field is not applicable.
- Internal Consistency The tabular wildfire mitigation data submitted by the electrical corporation must be internally consistent with the geospatial data submitted by the electrical corporation.
- **Naming Convention** The electrical corporation must name each submission according to the requirements stated in Table 4 in Section 2.1.1 of these Guidelines.

Energy Safety may reject data submissions that do not comply with the above requirements or the required schema and direct the electrical corporation to file corrected data or resubmission.

# **4.3 Tabular Wildfire Mitigation Data Schema**

The requirements provided in this section together with the required Wildfire Mitigation Data Tables template workbooks represent the Tabular Wildfire Mitigation Data schema. This section of the Guidelines explains the tables in the template workbooks and how to correctly populate them.

### 4.3.1 Template Workbooks and Submission Cadences

As detailed in Tables 1-3 of Section 2.1 above, tabular wildfire mitigation data submissions follow three distinct cadences: quarterly, annual-EOY, and annual-WMP. The electrical corporation must use the designated template workbook for the specified cadence for its data submission.

The tables included in each template Excel workbook are detailed below:

#### 1. Quarterly Template Workbook

- i. Actuals: Tables 1–10
- ii. Table 13
- 2. Annual-EOY Template Workbook
  - i. Actuals: Table 11
- 3. Annual-WMP Template Workbook
  - i. Projections: Tables 1-3, 5-10
  - ii. Projections: Table 11
  - iii. Table 12
  - iv. Tables 14 and 15

#### Link and location of the three template workbooks are referenced in Appendix D.

For the annual-WMP data submission, there are three versions of the template workbook, one for each year of the WMP cycle (Year 1, Year 2, and Year 3). Past WMP cycle years are removed from the Year 2 and Year 3 annual-WMP template versions. The electrical corporation must submit the version of the annual-WMP template workbook corresponding to the plan year of its related Base WMP or WMP Update submission. For example, when submitting a Base WMP, the electrical corporation must report its annual-WMP data using the Year 1 version of the annual-WMP template workbook.

Outside of the fields the electrical corporation is required to populate, the electrical corporation <u>must not</u> alter the template workbook tables in any way. Energy Safety will not accept additional columns or rows to tables. The only exceptions to this are:

- Table 3, where the electrical corporation may add rows as specified in Section 4.3.3, and
- Tables 14 and 15, where the electrical corporation may add columns as specified in Sections 4.3.14 and 4.3.15, respectively.

Any changes or alterations to field names, failure to observe restricted values where indicated, or alteration of the table structure may result in a rejection of the data and direction to resubmit.

# 4.3.2 Common Table Elements

### 4.3.2.1 UTILITY ID, REPORTING YEAR, and METRIC NUMBER

The template workbooks contain certain columns common to all tables within the workbooks: "UTILITY ID," "REPORTING YEAR," and "METRIC NUMBER".

- UTILITY ID means the submitting electrical corporation and must match the "Electrical Corporation Abbreviation" value used in the submission file name.
- REPORTING YEAR means the year of the subject reporting period and must match the year referenced in the submission file name.
- METRIC NUMBER means a unique ID the electrical corporation must generate according to the requirements in Section 4.3.2.1.1 below.

#### 4.3.2.1.1 METRIC NUMBER DETAILS

Each table enumerates its rows using a column "METRIC NUMBER." These metric numbers are integers created using the format XYYZZZZZZ, where:

- **X** = 1 for quarterly data, 2 for annual-WMP data, or 3 for annual-EOY data
- **YY** = 2-digit table number ("01" to "15")
- **ZZZZZZZ** = 7-digit row number ("0000000," "0000001," "0000002," etc.)

In tables where the number of rows is specified (e.g. T2, T4-T11, T14), the metric number is supplied by Energy Safety and these metric numbers must not be modified. In tables where the number of rows is not specified (e.g. T1, T3, T12, T13, T15), the metric numbers must be generated and populated by the electrical corporation according to the requirements set forth in this section.

#### 4.3.2.2 ACTUAL VALUE

Tables 2-11 of the Quarterly Template Workbook include the column, "ACTUAL VALUE". ACTUAL VALUE means the actual count or calculation for the related record for the subject reporting period, e.g., count of wires down, count of dollars spent, calculated median time between vegetation inspection finding and resulting trimming activity.

#### *4.3.2.3 REPORTING QUARTER*

REPORTING QUARTER means the quarter of the subject reporting period and must match the quarter referenced in the submission file name.

#### 4.3.2.4 Column Order

In each table, columns are generally ordered from left to right as follows:

- 1. Metric number
- 2. Template table elements from Energy Safety (no edits allowed)
- 3. Narrative from the electrical corporation (e.g., comments, blank entry explanations)
- 4. Data submission (e.g., electrical corporation name, year, quarter, actuals/projections)

The electrical corporation must not alter the column order in any template workbook. Any additional columns or reordering of columns may result in a rejection of the data and direction to resubmit.

### 4.3.3 Table 1: Quarterly Initiative Update Data (QIU)

The electrical corporation must report on each of its WMP initiative activities as a row in Wildfire Mitigation Data Table 1. The electrical corporation reports its WMP initiative actual progress using Table 1 of the Quarterly Template Workbook and its WMP initiative targets and projections using Table 1 the Annual-WMP Template Workbook. All fields are required unless otherwise specified in the below schema tables.

The Table 1 fields common to both the Quarterly and Annual-WMP Template Workbooks are as follows:

Field Name	Field Description	Field Value Constraints
METRIC NUMBER	Metric number, following the standard format described in	Integer
	Section 4.3.4 of these Guidelines.	

UTILITY ID	Standardized ID of the electrical corporation; values are as	Restricted to values
	follows:	indicated in Field
	• BV	Description
	• HWT	
	<ul><li>Liberty</li><li>LS Power</li></ul>	
	PacifiCorp	
	PG&E	
	SCE	
	SDG&E	
	• TBC	
SUBMISSION DATE	Date of submission formatted as MM/DD/YYYY.	Date
INITIATIVE CLASSIFICATION	Program - an ongoing, foundational function or	Restricted to values
	operation (i.e., detailed asset inspections)	indicated in Field
	<ul> <li>Project - a finite effort with a start and end date,</li> </ul>	Description
	typically an enhancement to the grid (i.e.,	
	installing a microgrid, undergrounding a circuit	
	segment, etc.)	
	<ul> <li>Pilot - typically limited in scope, experimental,</li> </ul>	
	and exploratory studies of new equipment,	
	technology, etc. for consideration of broader	
	deployment	
PROJECT START DATE	Related to INITIATIVE CLASSIFICATION field if selection is	Date
	"Project".	
PROJECT END DATE	Related to INITIATIVE CLASSIFICATION field if selection is	Date
	"Project".	
UTILITY INITIATIVE NAME	Electrical corporation name for the initiative. If WMP	Text
	INITIATIVE is not "other," this is an electrical corporation-	
	specific name for an Energy Safety-defined initiative. If	
	WMP Initiative is "Other," this field must match WMP	
	INITIATIVE NAME IF OTHER.	
INITIATIVE DESCRIPTION	500-character text field.	Text
INITIATIVE OBJECTIVE	A statement of the initiative intent that is limited to 500	Text
	characters (i.e., what does the electrical corporation plan	
	to accomplish with this initiative). The statement must be	
	of sufficient detail to permit the assessment of the	
	electrical corporation's ability to achieve this objective.	
WMP INITIATIVE CATEGORY	The WMP Initiative Category under which the subject WMP	Restricted to values
	initiative is organized. See <i>Appendix C. Initiative</i>	indicated in Field
	<i>Classification</i> for acceptable field values.	Description
WMP INITIATIVE	The name of the subject WMP Initiative, as defined by	Restricted to values
		indicated in Field
	Energy Safety. See Appendix C. Initiative Classification for	
	acceptable field values. If this value is "Other," provide the	Description

initiative name in INITIATIVE NAME IF OTHER.

WMP INITIATIVE NAME IF OTHER	If WMP INITIATIVE is "Other," provide the initiative name as	Text
WMP SECTION	it is reported in the electrical corporation's WMP.         The WMP section number under which WMP INITIATIVE or         WMP INITIATIVE NAME IF OTHER is discussed. See Appendix         Out which will be also as a second se	Numeric Text
UTILITY INITIATIVE TRACKING ID	C. Initiative ClassificationThe "Utility Initiative Tracking ID" is the unique tracking IDfor a given initiative. This ID must match the "UtilityInitiative Tracking ID" field for the same initiative in all data	Text
WMP INITIATIVE CODE	submissions for the initiative's entire lifecycle.Coded Unique ID of the initiative. Must be unique for each initiative for each electrical corporation for each year.Follows the format "[UTILITY ID]_ [WMP INITIATIVE CATEGORY]_[ WMP INITIATIVE]_[ UTILITY INITIATIVE TRACKING ID]_[Year four digit number (e.g., "2021")]". For example, the code "PG&E_Vegetation Management & Inspections_Substation vegetation management _001_2021" would be where electrical corporation is PG&E, Initiative category is Vegetation Management & Inspections, initiative is Substation vegetation management, unique initiative ID is 001 and the year is 2021.	Text
WMP PAGE NUMBER	Page of most recent WMP where initiative is detailed. If the initiative is detailed on multiple pages, indicate the first page.	Integer
RISK TARGET REDUCTION	Risk components targeted for reduction by implementing the initiative:         • Equipment ignition likelihood         • Contact from vegetation ignition likelihood         • Contact by object ignition         • Wildfire spread         • Wildfire hazard         • Wildfire vulnerability         • PSPS likelihood         • PSPS vulnerability         • PSPS vulnerability         • Domain values for this field carry the meanings ascribed to them in the applicable WMP Guidelines.	Restricted to values indicated in Field Description
MIDYEAR TARGET (YES / NO)	Indicator field for reference to Table 12. Requirements for midyear targets are controlled by the WMP Guidelines. Possible field values are: • Yes • No	Restricted to values indicated in Field Description

QUANT TARGET UNITS	If initiative has a quantitative target, then report the units for the target. For example, if the initiative is installing covered conductors, then the unit would be "# of covered conductors installed."	Text
COMMENTS	Provide any necessary comments. This field is optional.	Text
REPORTING YEAR	Year for the subject reporting period	Integer

### Table 1 fields exclusive to the Annual-WMP Template Workbook are as follows:

ANNUAL QUANTITATIVE TARGET	Quantitative target for the year. Note that all Projected	Numeric≥0
	Quarterly Progress columns must be completed in the Q1	
	submission. End of year targets should not change unless a	
	change order has been approved.	
PROJECTED QUANTITATIVE	YTD Quantitative projected progress by end of Q1: Jan 1 -	Numeric ≥ 0
PROGRESS Q1	Mar 31	
PROJECTED QUANTITATIVE	YTD quantitative projected progress by end of Q2: Jan 1 -	Numeric≥0
PROGRESS Q1-2	June 30. Q1 projected progress + Q2 projected progress	
PROJECTED QUANTITATIVE	YTD quantitative projected progress by end of Q3: Jan 1 -	Numeric≥0
PROGRESS Q1-3	Sep 30. Q1 projected progress + Q2 projected progress + Q3	
	projected progress	
PROJECTED QUANTITATIVE	YTD quantitative projected progress by end of Q4: Jan 1 -	Numeric ≥ 0
PROGRESS Q1-4	Dec 31.	
ANNUAL QUALITATIVE TARGET	If initiative has a qualitative target, then detail the target.	Text
	For example, if the initiative is building a centralized data	
	lake, then the target may be "Developing a centralized	
	data lake by end of year."	

### Table 1 fields exclusive to the Quarterly Template Workbook are as follows:

REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.
QUANTITATIVE ACTUAL PROGRESS Q1	Actual quantitative progress by end of Q1: Jan 1 - Mar 31	Numeric≥0
QUANTITATIVE ACTUAL PROGRESS Q1-2	Actual YTD quantitative progress by end of Q2: Jan 1 - June 30. Q1 progress + Q2 progress	Numeric≥0
QUANTITATIVE ACTUAL PROGRESS Q1-3	Actual YTD quantitative progress by end of Q3: Jan 1 - Sep 30. Q1 progress + Q2 progress + Q3 progress	Numeric≥0
QUANTITATIVE ACTUAL PROGRESS Q1-4	Actual YTD quantitative progress by end of Q4: Jan 1 - Dec 31. Total annual progress	Numeric≥0
QUALITATIVE ACTUAL PROGRESS Q1	Qualitative progress by end of Q1: Jan 1 - Mar 31	Text
QUALITATIVE ACTUAL PROGRESS Q1-2	Qualitative progress by end of Q2: Jan 1 - June 30	Text

QUALITATIVE ACTUAL PROGRESS Q1-3	Qualitative progress by end of Q3: Jan 1 - Sep 30	Text
QUALITATIVE ACTUAL PROGRESS Q1-4	Qualitative progress by end of Q4: Jan 1 - Dec 31. Total annual progress	Text
STATUS	Initiative activity status designations progress over time from Planned to In Progress to Completed, as the electrical corporation submits its wildfire mitigation data. Initiative activity status must not revert to an upstream status designation. Acceptable values are as follows: Planned In Progress Completed Delayed	Restricted to values indicated in Field Description
CORRECTIVE ACTIONS IF DELAYED	<ul> <li>Cancelled</li> <li>If projected progress vs actual progress indicates a delay in the electrical corporation's implementation of its initiative activity, (e.g., reported quantitative progress for Q1 was significantly below projected quantitative progress for Q1), the electrical corporation must detail corrective actions it is taking to address the delay.</li> </ul>	Text

# 4.3.4 Table 2: Performance Metrics

The electrical corporation must report on the performance metrics required by Energy Safety in Wildfire Mitigation Data Table 2. The electrical corporation reports quarterly actuals for all required performance metrics using Table 2 of the Quarterly Template Workbook. The electrical corporation reports projections using Table 2 of the Annual-WMP Template Workbook for the following required subset of performance metrics:

- Rows 2020000012, 2020000013, 2020000014, *Number of outage events on circuits with adjusted settings for protective devices enabled* in HFTD Tier 2, HFTD Tier 3, and Non-HFTD, respectively.
- 2020000063, Number of vegetation management open work orders (total);
- 2020000064, Number of vegetation management past due work orders (total);
- 2020000065, Number of asset management open work orders (total); and
- 2020000066, Number of asset management past due work orders (total).

The electrical corporation must not add rows or otherwise report projections for any additional performance metric beyond those included in Table 2 of the Annual-WMP Template Workbook.

All fields are required unless otherwise specified in the below schema tables.

The Table 2 fields common to both the Quarterly and Annual-WMP Template Workbooks are as follows:

Field Name	Field Description	Field Value Constraints
COMMENTS	Provide any necessary comments.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission Requirements	Text
UTILITY ID	Standardized ID of the electrical corporation; values are as         follows:         BV         HWT         Liberty         LS Power         PacifiCorp         PG&E         SCE         SDG&E         TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer

#### Table 2 fields exclusive to the Annual-WMP Template Workbook are as follows.

WMP CYCLE START YEAR	Year of the beginning of the current WMP cycle	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the current WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 2 VALUE	Projected annual value for the indicated metric for the second year of the current WMP cycle. The Year 3 version of the Annual-WMP Template Workbook does not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 3 VALUE	Projected annual value for the indicated metric for the third year of the current WMP cycle.	Numeric≥0, or blank

#### Table 2 fields exclusive to the Quarterly Template Workbook are as follows.

REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.
ACTUAL VALUE	Value for the indicated metric for the subject reporting	Numeric ≥ 0, or
	period	blank

# 4.3.5 Table 3: List and Description of Additional Metrics

The electrical corporation must use Wildfire Mitigation Data Table 3 of the Quarterly Template Workbook to report the following:

- Performance metrics, beyond those required by Energy Safety in Table 2, that the electrical corporation uses to evaluate the effectiveness of its WMP in reducing wildfire and outage program risk, as identified in the electrical corporation's WMP
- Any metrics, beyond those required by Energy Safety in Wildfire Mitigation Data Tables 4 10, that the electrical corporation tracks and are relevant to its WMP

If none of the metric types listed above applies to an electrical corporation WMP, Table 3 is not required.

If any of the metric types listed above applies to an electrical corporation WMP, the electrical corporation must report each metric as a record in Table 3 of the Quarterly Template Workbook. All of the following fields are required:

Field Name	Field Description	Field Value Constraints
METRIC NUMBER	Metric number, following the standard format described in Section 4.3.4 of these Guidelines.	Integer
METRIC	Unique identifying name for the metric	Text
DEFINITION	Narrative description of the metric and its calculation	Text
PURPOSE	Narrative description of how the metric relates to the overall goals of the electrical corporation wildfire mitigation program	Text
ASSUMPTIONS MADE TO CONNECT METRIC TO PURPOSE	Narrative discussion of how the metric accomplishes its purpose	Text
THIRD-PARTY VALIDATION (IF ANY)	Narrative discussion of independent validation of the metric	Text
UNIT(S)	Description of units used to measure and report initiative activity progress	Text
COMMENTS	Provide any necessary comments.	Text
BLANK MEANING	See section 4.2 Overall Data File Requirements.	Text

UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BVES HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer
REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.
ACTUAL VALUE	Value for the indicated metric for the subject reporting period	Numeric≥0, or blank

### 4.3.6 Table 4: Weather Patterns

The electrical corporation must report on three weather pattern metric types in Wildfire Mitigation Data Table 4 of the Quarterly Template Workbook: Red Flag Warning (RFW), High Wind Warning (HWW), and Fire Potential Index (FPI). The electrical corporation must break reporting for each required weather pattern metric out to HFTD Tier 2, HFTD Tier 3, and Non-HFTD. Unit definitions are detailed in the UNIT(S) column of Table 4 in the Quarterly Template Workbook; the electrical corporation must calculate its Table 4 reporting according to these requirements.

All of the following Table 4 fields are required unless otherwise specified at the field level:

Field Name	Field Description	Field Value Constraints
COMMENTS	Provide any necessary comments. This field is optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission Requirements	Text

UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer
REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.
ACTUAL VALUE	Value for the indicated metric for the subject reporting period	Numeric≥0, or blank

### 4.3.7 Table 5: Risk Event Drivers

The electrical corporation must report on risk events in Wildfire Mitigation Data Table 5. The electrical corporation reports on the risk events which occurred within the subject reporting period using Table 5 of the Quarterly Template Workbook. The electrical corporation reports its risk event projections using Table 5 of the Annual-WMP Template Workbook.

Per direction provided in Section 4.2 of these Guidelines, data reported in Table 5 must be consistent with the electrical corporation's spatial data reporting.

All fields are required unless otherwise specified in the below schema tables.

The Table 5 fields common to both the Quarterly and Annual-WMP Template Workbooks are as follows:

Field Name	Field Description	Field Value Constraints
ARE RISK EVENTS TRACKED FOR	Whether this category of risk events is tracked for ignition	Restricted to
IGNITION DRIVER? (YES / NO)	driver.	values indicated
		in Field
		Description
COMMENTS	Provide any necessary comments. This field is optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission	Text
	Requirements	

UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer

#### Table 5 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year of the beginning of the current WMP cycle	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the current WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 2 VALUE	Projected annual value for the indicated metric for the second year of the current WMP cycle. The Year 3 version of the Annual-WMP Template Workbook does not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 3 VALUE	Projected annual value for the indicated metric for the third year of the current WMP cycle.	Numeric≥0, or blank

#### Table 5 fields exclusive to the Quarterly Template Workbook are as follows:

REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.
ACTUAL VALUE	Value for the indicated metric for the subject reporting	Numeric ≥ 0, or
	period	blank

# 4.3.8 Table 6: Ignition Drivers

The electrical corporation must report on ignitions in Wildfire Mitigation Data Table 6. The electrical corporation reports on the ignitions which occurred in the subject reporting period using Table 6 of the Quarterly Template Workbook. The electrical corporation reports its ignition projections using Table 6 of the Annual-WMP Template Workbook.

Per direction provided in Section 4.2 of these Guidelines, data reported in Table 6 must be consistent with the electrical corporation's spatial data reporting.

Table 2 includes performance metrics relating to ignitions. To the extent that the subjects of Table 2 and Table 6 overlap, data reported in these tables must be consistent.

All fields are required unless otherwise specified in the below schema tables.

The Table 6 fields common to both the Quarterly and Annual-WMP Template Workbooks are as follows:

Field Name	Field Description	Field Value Constraints
ARE IGNITIONS TRACKED FOR IGNITION DRIVER? (YES / NO)	Whether this category of ignitions is tracked for ignition driver.	Restricted to values indicated in Field Description
COMMENTS	Provide any necessary comments. This field is optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission Requirements	Text
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer

#### Table 6 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year of the beginning of the current WMP cycle	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the current WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 2 VALUE	Projected annual value for the indicated metric for the second year of the current WMP cycle. The Year 3 version of the Annual-WMP Template Workbook does not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 3 VALUE	Projected annual value for the indicated metric for the third year of the current WMP cycle.	Numeric≥0, or blank

#### Table 6 fields exclusive to the Quarterly Template Workbook are as follows:

REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1
		and 4.

ACTUAL VALUE	Value for the indicated metric for the subject reporting	Numeric≥0, or
	period	blank

### 4.3.9 Table 7: State of Service Territory and Utility Equipment

The electrical corporation must report on specific metrics related to the state of its service territory in Wildfire Mitigation Data Table 7. Reporting in Table 7 is broken down across multiple service area designations, including customer counts. HFTD Tier, Urban/Rural/Highly Rural, and WUI status are all considered in relation to the identified equipment and customer count categories.

The electrical corporation reports its actual Table 7 metric values for the subject reporting period using the Quarterly Template Workbook and its annual projected Table 7 metric values using the Annual-WMP Template Workbook.

All fields are required unless otherwise specified in the below schema tables.

The Table 7 fields common to both the Quarterly and Annual-WMP Template Workbooks are as follows:

Field Name	Field Description	Field Value Constraints
COMMENTS	Provide any necessary comments. This field is optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission Requirements	Text
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer

#### Table 7 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year of the beginning of the current WMP cycle	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the current WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	Numeric ≥ 0, or blank

PROJECTED CYCLE YEAR 2 VALUE	Projected annual value for the indicated metric for the second year of the current WMP cycle. The Year 3 version of the Annual-WMP Template Workbook does not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 3 VALUE	Projected annual value for the indicated metric for the third year of the current WMP cycle.	Numeric≥0, or blank

Table 7 fields exclusive to the Quarterly Template Workbook are as follows:

REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.
ACTUAL VALUE	Value for the indicated metric for the subject reporting	Numeric ≥ 0, or
	period	blank

# 4.3.10 Table 8: Location of Utility Equipment Additions or Removal

The electrical corporation must report on net additions or removals of equipment in their service territory in Wildfire Mitigation Data Table 8, broken out by multiple service area designations. HFTD Tier, Urban/Rural/Highly Rural, and WUI status are all considered in relation to net planned equipment additions and removals.

The electrical corporation reports its actual Table 8 metric values for the subject reporting period using the Quarterly Template Workbook and its annual projected Table 8 metric values using the Annual-WMP Template Workbook.

The electrical corporation must report actual and projected net additions using positive numbers and net removals using negative numbers. The electrical corporation must <u>not</u> report cumulative net change across years. For example, if 10 net overhead circuit miles are added in 2022, that would be reported as an actual of "10" for 2022. If 20 net overhead circuit miles are planned for addition by 2025, with 15 to be added in 2023, 5 more to be added in 2024, and 0 to be added in 2025, that would be reported as "15" projected for 2023, "5" projected for 2024, and "0" projected for 2025.

All fields are required unless otherwise specified in the below schema tables.

The Table 8 fields common to both the Quarterly and Annual-WMP Template Workbooks are as follows

Field Name	Field Description	Field Value Constraints
COMMENTS	Provide any necessary comments. This field is optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission Requirements	Text

UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer

#### Table 8 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year of the beginning of the current WMP cycle	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the current WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	Numeric, or blank
PROJECTED CYCLE YEAR 2 VALUE	Projected annual value for the indicated metric for the second year of the current WMP cycle. The Year 3 version of the Annual-WMP Template Workbook does not contain this column.	Numeric, or blank
PROJECTED CYCLE YEAR 3 VALUE	Projected annual value for the indicated metric for the third year of the current WMP cycle.	Numeric, or blank

#### Table 8 fields exclusive to the Quarterly Template Workbook are as follows:

REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.
ACTUAL VALUE	Value for the indicated metric for the subject reporting period	Numeric, or blank

# 4.3.11 Table 9: Location of Utility Infrastructure Upgrades

The electrical corporation must provide a summary of the planned and actual upgrades to equipment in their service territory across multiple service area designations in Wildfire Mitigation Data Table 9. HFTD Tier, Urban/Rural/Highly Rural, and WUI status are all considered in relation to utility infrastructure upgrade locations.

The electrical corporation reports its actual Table 9 metric values for the subject reporting period using the Quarterly Template Workbook and its annual projected Table 9 metric values using the Annual-WMP Template Workbook.

All fields are required unless otherwise specified in the below schema tables.

The Table 9 fields common to both the Quarterly and Annual-WMP Template Workbooks are as follows:

Field Name	Field Description	Field Value Constraints
COMMENTS	Provide any necessary comments. This field in optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission Requirements	Text
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer

#### Table 9 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year of the beginning of the current WMP cycle	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the current WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 2 VALUE	Projected annual value for the indicated metric for the second year of the current WMP cycle. The Year 3 version of the Annual-WMP Template Workbook does not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 3 VALUE	Projected annual value for the indicated metric for the third year of the current WMP cycle.	Numeric≥0, or blank

#### Table 9 fields exclusive to the Quarterly Template Workbook are as follows:

REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.
ACTUAL VALUE	Value for the indicated metric for the subject reporting period	Numeric≥0, or blank

### 4.3.12 Table 10: Recent Use of PSPS and Other PSPS Metrics

The electrical corporation must report on PSPS-related metrics in Wildfire Mitigation Data Table 10.

The electrical corporation reports on its actual PSPS use and related outage events which occurred within the subject reporting period using Table 10 of the Quarterly Template Workbook. Five PSPS metric types are broken down across specified PSPS-related outcome metrics, with wind warning status also considered where indicated.

The electrical corporation reports projections for a subset of PSPS metrics using the Annual-WMP Template Workbook. The electrical corporation's PSPS metric projections must be based on its anticipated usage of PSPS as an interim strategy and must be aligned with the strategies described in related sections of the electrical corporation's WMP. The required subset of PSPS metrics the electrical corporation must report using Table 10 of the Annual-WMP Template Workbook are as follows:

- Row 210000000, Frequency of PSPS events (total);
- Row 210000001, Scope of PSPS events (total);
- Row 210000002, Duration of PSPS events (total); and
- Row 2100000011, # of customers impacted by PSPS.

The electrical corporation must not add rows or otherwise report projections for any additional PSPS metrics beyond those included in Table 10 of the Annual-WMP Template Workbook.

All fields are required unless otherwise specified in the below schema tables.

The Table 10 fields common to both the Quarterly and Annual-WMP Template Workbooks are as follows:

Field Name	Field Description	Field Value Constraints
COMMENTS	Provide any necessary comments. This field is optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission	Text
	Requirements	

UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer

#### Table 10 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year of the beginning of the current WMP cycle	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the current WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 2 VALUE	Projected annual value for the indicated metric for the second year of the current WMP cycle. The Year 3 version of the Annual-WMP Template Workbook does not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 3 VALUE	Projected annual value for the indicated metric for the third year of the current WMP cycle.	Numeric≥0, or blank

#### Table 10 fields exclusive to the Quarterly Template Workbook are as follows:

REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.
ACTUAL VALUE	Value for the indicated metric for the subject reporting period	Numeric≥0, or blank
	period	DIATIK

# 4.3.13 Table 11: Mitigation Initiative Financials

The electrical corporation must provide a summary of the actual and projected costs of initiative activities in Wildfire Mitigation Data Table 11. The electrical corporation reports actual expenditures using the Annual-EOY Template Workbook and projected expenditures using the Annual-WMP Template Workbook.

For each initiative, the electrical corporation must categorize expenditures by type, as either capital expenditure (CAPEX) or operative expenditure (OPEX). Expenditure totals must be reported by year and in thousands of dollars. Expenditure amounts must also be broken out by total territory and HFTD. The Territory expenditure values for each initiative must include

the entire electrical corporation's service territory, *including HFTD*. The HFTD expenditure field represents a subset of the Territory field.

All fields are required unless otherwise specified in the below schema tables.

The Table 11 fields common to both the Annual-EOY and Annual-WMP Template Workbooks are as follows:

Field Name	Field Description	Field Value Constraints
UTILITY INITIATIVE TRACKING ID	The "Utility Initiative Tracking ID" is the unique tracking ID for a given initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all data submissions for the initiative's entire lifecycle. If multiple tracking IDs are indicated for one record, a	Text
PRIMARY DRIVER TARGETED	semicolon must be used as a delimiter. Specific risk component / outcome metric which is expected to be impacted by the initiative	Text
SECONDARY DRIVER TARGETED	Specific risk component / outcome metric which is expected to be impacted by the initiative	Text
YEAR INITIATED	Specific risk components / outcome metrics which are expected to be impacted by the mitigation initiative	Text
IF EXISTING: MOST RECENT PROCEEDING THAT HAS REVIEWED PROGRAM	See field name.	Text
IF NEW: MEMORANDUM ACCOUNT	See field name.	Text
CURRENT COMPLIANCE STATUS - IN / EXCEEDING COMPLIANCE WITH REGULATIONS	Meeting / exceeding compliance with regulations	Text
ASSOCIATED RULE(S) - IF MULTIPLE, SEPARATE BY SEMI-COLON - ";"	Rulings associated with the initiative	Text
IF SPEND NOT DISAGGREGATED BY CATEGORY, NOTE SPEND CATEGORY OR MARK GENERAL OPERATIONS	See field name.	Text
COMMENTS	Provide any necessary comments. This field is optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission Requirements	Text

UTILITY ID	Standardized ID of the electrical corporation; values are as follows:	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer

#### Table 10 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year of the beginning of the current WMP cycle	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the current WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 2 VALUE	Projected annual value for the indicated metric for the second year of the current WMP cycle. The Year 3 version of the Annual-WMP Template Workbook does not contain this column.	Numeric ≥ 0, or blank
PROJECTED CYCLE YEAR 3 VALUE	Projected annual value for the indicated metric for the third year of the current WMP cycle.	Numeric≥0, or blank

#### Table 10 fields exclusive to the Annual-EOY Template Workbook are as follows:

ACTUAL VALUE	Value for the indicated metric for the subject reporting	Numeric≥0, or
	period	blank

# 4.3.14 Table 12: Midyear and End-of-Year Targets

The electrical corporation must report midyear and end-of-year initiative targets in Wildfire Mitigation Data Table 12. The electrical corporation must report end-of-year (Q4) targets for all initiatives reported in Table 1. The electrical corporation must report midyear (Q2 and Q3) targets for only those initiatives where "MIDYEAR TARGET (YES / NO)" field value in Table 1 is "yes".

All fields are required except as specified above or as otherwise specified in the below schema tables.

The Table 12 fields in the Annual-WMP Template Workbooks are as follows:

Field Name	Field Description	Field Value Constraints
METRIC NUMBER	Metric number, following the standard format described in Section 4.3.4 of these Guidelines.	Integer
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
SUBMISSION DATE	Date of submission formatted as MM/DD/YYYY.	Date
WMP INITIATIVE CATEGORY	The WMP Initiative Category under which the subject WMP Initiative is organized. See <i>Appendix C. Initiative Classification</i> for acceptable field values.	Restricted to values indicated in Field Description
WMP INITIATIVE	The name of the subject WMP Initiative, as defined by Energy Safety. See <i>Appendix C. Initiative</i> <i>Classification</i> for acceptable field values. If this value is "Other," provide the initiative name in INITIATIVE NAME IF OTHER.	Restricted to values indicated in Field Description
WMP INITIATIVE NAME IF OTHER	If WMP INITIATIVE is "Other," provide the Initiative name as it is reported in the electrical corporation's WMP.	
UTILITY INITIATIVE TRACKING ID	The "Utility Initiative Tracking ID" is the unique tracking ID for a given initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all data submissions for the initiative's entire lifecycle.	Text
TARGET TYPE	<ul><li>Qualitative</li><li>Quantitative</li></ul>	Text
UNIT(S)	Units used to measure and report initiative targets and actuals	Text
METHOD OF VERIFICATION	<ul> <li>If Qualitative: A description of an auditable commitment (e.g., something that can be assessed for compliance) to achieve the objective. Must include a proposed means of verifying said achievement (e.g., a copy of updated protocols and a summary of actions taken in support of the qualitative target).</li> <li>If Quantitative: Populate as "Quantitative"</li> </ul>	Text
COMMENTS	Additional comments by the electrical corporation	Text

REPORTING YEAR	Year for the subject reporting period	Integer
CYCLE YEAR 1	First year of the subject WMP cycle	Integer
YTD TARGET - Y1 Q2	End of Q2 YTD target initiative activity progress for	If qualitative: Text
	first year of WMP cycle. Year 2 and Year 3 versions	If quantitative:
	of the Annual-WMP Template Workbook do not	Numeric≥0
	contain this column.	
YTD TARGET - Y1 Q3	End of Q3 YTD target initiative activity progress for	If qualitative: Text
	first year of WMP cycle. Year 2 and Year 3 versions	If quantitative:
	of the Annual-WMP Template Workbook do not	Numeric≥0
	contain this column.	
YTD TARGET - Y1 Q4	End of Q4 YTD target initiative activity progress for	If qualitative:
	first year of WMP cycle. Year 2 and Year 3 versions	Text
	of the Annual-WMP Template Workbook do not	If quantitative:
	contain this column.	Numeric≥0
YTD TARGET - Y2 Q2	End of Q2 YTD target initiative activity progress for	If qualitative: Text
	second year of WMP cycle. Year 3 version of the	If quantitative:
	Annual-WMP Template Workbook does not contain	Numeric≥0
	this column.	
YTD TARGET - Y2 Q3	End of Q3 YTD target initiative activity progress for	If qualitative: Text
	second year of WMP cycle. Year 3 version of the	If quantitative:
	Annual-WMP Template Workbook does not contain	Numeric≥0
	this column.	
YTD TARGET - Y2 Q4	End of Q4 YTD target initiative activity progress for	If qualitative:
	second year of WMP cycle. Year 3 version of the	Text
	Annual-WMP Template Workbook does not contain	If quantitative:
	this column.	Numeric≥0
YTD TARGET - Y3 Q2	End of Q2 YTD target initiative activity progress for	If qualitative: Text
	third year of WMP cycle.	If quantitative:
		Numeric≥0
YTD TARGET - Y3 Q3	End of Q3 YTD target initiative activity progress for	If qualitative: Text
	third year of WMP cycle.	If quantitative:
		Numeric≥0
YTD TARGET - Y3 Q4	End of Q4 YTD target initiative activity progress for	If qualitative:
	third year of WMP cycle.	Text
		If quantitative:
		Numeric≥0

# 4.3.15 Table 13: Open Work Orders / Notifications

The electric corporation must report all open work orders resulting from inspections that prescribe asset management activities and their associated dates, priority levels, equipment types, and reasons for inspection in Wildfire Mitigation Data Table 13. Each record must identify whether the work order occurred in an HFTD Tier or Non-HFTD, and the applicable line type. Table 13 does not prepopulate HFTD Tiers or line type designations, as these will be determined by the attributes of each listed work order record.

Table 13 data reporting must be consistent with the electrical corporation's reporting and discussion of work orders in its related Base WMP or WMP Update.

All fields are required unless otherwise specified in the below schema table.

The Table 13 fields in the Quarterly Template Workbook are as follows:

Field Name	Field Description	Field Type
METRIC NUMBER	Metric number, following the standard format described in	Integer
	Section 4.3.4 of these Guidelines.	
WORK ORDER NUMBER	See field name.	Text
EQUIPMENT TYPE	See field name.	Text
HFTD TIER	The CPUC high-fire threat district (HFTD) area. For this data, anything outside Tiers 2 and 3 must be categorized as "Non- HFTD." Do not record any Zone 1 or Tier 1 values. Possible values: • Non-HFTD • HFTD Tier 2 • HFTD Tier 3 HFTD data can be downloaded from: <u>https://ia.cpuc.ca.gov/firemap</u> • Distribution • Transmission	Restricted to values indicated in Field Description Restricted to values indicated in
DATE THE WORK ORDER WAS	See field name.	Field Description Date
ORIGINALLY OPENED		
DUE DATE OF THE ORIGINAL WORK ORDER	See field name.	Date
GO 95 RULE 18 PRIORITY LEVEL OF THE ORIGINAL WORK ORDER	Priority level of the work order as outlined in General Order 95 (G0 95) rule 18. https://ia.cpuc.ca.gov/gos/go95/go_95_rule_18.htm	Text
OPTIONAL UTILITY-SPECIFIC REPAIR PRIORITY	The electrical corporation may have a more granular level reporting standard than GO 95 rule 18. If a more detailed category level is used internally, the electrical corporation may enter those categories here. This field is optional.	Text
DATE(S) THE WORK ORDER WAS REINSPECTED OR MODIFIED (IF APPLICABLE)	See field name.	Date
DUE DATE OF THE WORK ORDER AFTER IT WAS REINSPECTED OR MODIFIED (IF APPLICABLE)	See field name.	Date

PRIORITY OF THE WORK ORDER AFTER IT WAS REINSPECTED OR MODIFIED (IF APPLICABLE)	See field name.	Text
REASON FOR REINSPECTION (IF APPLICABLE)	See field name.	Text
COMMENTS	Provide any necessary comments. This field is optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission Requirements	Text
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer
REPORTING QUARTER	Quarter for the subject reporting period	Integer between 1 and 4.

# 4.3.16 Table 14: HFTD Area Risk Summary

The electric corporation must report the calculated value of each specified risk component by HFTD designation (Non-HFTD, Tier 2, and Tier 3) and line type in Wildfire Mitigation Data Table 14 using the Annual-WMP Template Workbook.

The electrical corporation must add a column to the right of the last Energy Safety-defined column in Table 14 of the Annual-WMP Template Workbook for each electrical corporation-defined risk component identified in its WMP and populate the additional column(s) for all Table 14 records.

All fields are required unless otherwise specified in the below schema table.

The Table 14 fields in the Annual-WMP Template Workbook are as follows:

Field Name	Field Description	Field Type
OVERALL UTILITY RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
WILDFIRE RISK	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	Numerie

OUTAGE PROGRAM RISK	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
WILDFIRE LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
WILDFIRE CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
IGNITION LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
EQUIPMENT CAUSED	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
LIKELIHOOD OF IGNITION	definition and calculation requirements	
CONTACT FROM VEGETATION	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
LIKELIHOOD OF IGNITION	definition and calculation requirements	
CONTACT FROM OBJECT	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
LIKELIHOOD OF IGNITION	definition and calculation requirements	
BURN LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
WILDFIRE CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
WILDFIRE HAZARD INTENSITY	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
WILDFIRE EXPOSURE	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
POTENTIAL	definition and calculation requirements	
PSPS RISK	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
PSPS LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
PSPS CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
PSPS EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
PSPS VULNERABILITY	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
PEDS RISK	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
PEDS LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
PEDS CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
PEDS EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
PEDS VULNERABILITY	See Chapter III, Section 5.2 of the WMP Guidelines for	Numeric
	definition and calculation requirements	
COMMENTS	Provide any necessary comments.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission	Text
	Requirements	

UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	Restricted to values indicated in Field Description
REPORTING YEAR	Year for the subject reporting period	Integer
(Utility to add additional risk component fields as necessary)	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric

# 4.3.17 Table 15: Top Risk Circuit Scores

The electric corporation must report the calculated value of each risk component for circuits, segments, or spans that significantly contribute to risk in Wildfire Mitigation Data Table 15 using the Annual-WMP Template Workbook. In accordance with the WMP Guidelines, a circuit, segment, or span significantly contributes to risk if it:

- 1. Individually contributes more than 1 percent of the total overall utility risk; or
- 2. Is in the top 5 percent of highest risk circuits/segments/spans when all circuits/segments/spans are ranked individually from highest to lowest risk.

The electrical corporation may use either circuits, segments, or spans, whichever is more appropriate considering the granularity of its risk model(s).

The electrical corporation must add a column to the right of the last Energy Safety-defined column in Table 15 of the Annual-WMP Template Workbook for each electrical corporation-defined risk component identified in its WMP and populate the additional column(s) for all Table 15 records.

All fields are required unless otherwise specified in the below schema table.

Field Name	Field Description	Field Type
METRIC NUMBER	Metric number, following the standard format described in Section 4.3.4 of these Guidelines.	Integer
TOP-RISK CIRCUIT / SEGMENT /	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Text
SPAN ID	and calculation requirements	

The Table 15 fields in the Annual-WMP Template Workbook are as follows:

RISK GRANULARITY	Circuit	Restricted to
	Segment	values
	• Span	indicated in
		Field
		Description
LINE TYPE	Distribution	Restricted to
	Transmission	values
		indicated in
		Field
		Description
CIRCUIT / SEGMENT / SPAN LENGTH (MI)	Circuit, segment, or span length in miles.	Numeric ≥ 0
INCLUSION REASON	>1% contribution	Restricted to
	• Top 5% highest risk	values
	• Both >1% and Top 5%	indicated in
	·	Field
		Description
HFTD TIER	The CPUC high-fire threat district (HFTD) area. For this data,	Restricted to
	anything outside Tiers 2 and 3 must be categorized as "Non-	values
	HFTD." Do not record any Zone 1 or Tier 1 values. Possible	indicated in
	values:	Field
	Non-HFTD	Description
	HFTD Tier 2	Description
	HFTD Tier 3	
	HFTD data can be downloaded from:	
	https://ia.cpuc.ca.gov/firemap	
OVERALL UTILITY RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	Humene
WILDFIRE RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
WIEDI IKE KISK	and calculation requirements	Numeric
OUTAGE PROGRAM RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
OUTAGE FROGRAM RISK	and calculation requirements	Numeric
WILDFIRE LIKELIHOOD	-	Numeric
WIEDFIRE LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	Numera
WILDFIRE CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
IGNITION LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
EQUIPMENT CAUSED LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
OF IGNITION	and calculation requirements	
CONTACT FROM VEGETATION	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
LIKELIHOOD OF IGNITION	and calculation requirements	
CONTACT FROM OBJECT	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
LIKELIHOOD OF IGNITION	and calculation requirements	
BURN LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	

WILDFIRE CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
WILDFIRE HAZARD INTENSITY	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
WILDFIRE EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
PSPS RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
PSPS LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
PSPS CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
PSPS EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
PSPS VULNERABILITY	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
PEDS RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
PEDS LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
PEDS CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
-	and calculation requirements	
PEDS EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
PEDS VULNERABILITY	See Chapter III, Section 5.2 of the WMP Guidelines for definition	Numeric
	and calculation requirements	
COMMENTS	Provide any necessary comments. This field is optional.	Text
BLANK MEANING	See Empty Fields under Section 4.2 Data Submission	Text
	Requirements	
UTILITY ID	Requirements	Restricted to
UTILITY ID	Standardized ID of the electrical corporation; values are as	Restricted to values
UTILITY ID	Standardized ID of the electrical corporation; values are as follows:	
UTILITY ID	Standardized ID of the electrical corporation; values are as follows:	values indicated in
UTILITY ID	Standardized ID of the electrical corporation; values are as follows:	values indicated in Field
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power	values indicated in
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp	values indicated in Field
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E	values indicated in Field
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE	values indicated in Field
UTILITY ID	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E	values indicated in Field
	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E TBC	values indicated in Field Description
UTILITY ID REPORTING YEAR (Utility to add additional risk	Standardized ID of the electrical corporation; values are as follows: BV HWT Liberty LS Power PacifiCorp PG&E SCE SDG&E	values indicated in Field



# **APPENDICES**



## **Appendix A. Abbreviation Definitions**

AAAC	All-aluminum alloy conductor
AAC	All-aluminum conductor
ACAR	Aluminum conductor aluminum reinforced
ACSR	Aluminum conductor steel reinforced
ACSS	Aluminum conductor steel supported
Actl	Actual
AHJ	Authority having jurisdiction
Ai	Asset inspection
AKA	Also known as
APN	Assessor parcel number
CPUC	California Public Utilities Commission
Cu	Copper
DD	2-digit day
Env	Environmental
EOC	Emergency operations center
ERD	Entity-relationship diagram
FK	Foreign key
FRA	Federal responsibility area
FWW	Fire weather watch
GDB	Geodatabase
Gh	Grid hardening
GIS	Geographic Information System
GNSS	Global Navigational Satellite System
HFTD	High-fire threat district
hh	2-digit hour
HWW	High wind warning
kV	Kilovolt
kVA	Kilovolt amp
LRA	Local responsibility area
MM	2-digit month
mm	2-digit minute
MVA	Megavolt-ampere
MWS	Major woody stem
N/A	Not applicable
NWS	National Weather Service
Oplc	Other power line connection
PK	Primary key
PRC	Public Resources Code
PSPS	Public safety power shutoff

Q	Quarter (calendar quarter)
QAL	Quarterly advice letter
QDR	Quarterly data report
RFW	Red flag warning
SCADA	Supervisory control and data acquisition
SRA	State responsibility area
SS	2-digit second
VM	Vegetation management
Vmi	Vegetation management inspection
Vmp	Vegetation management project
WGS	World Geodetic System
WKID	Well-known ID
WMP	Wildfire Mitigation Plan
WSD	Wildfire Safety Division
YTD	Year to date

### **Appendix B. Glossary**

The definitions provided in this Appendix apply to these Guidelines. Where terms used in these Guidelines are defined in the applicable WMP Guidelines, the definitions provided in the WMP Guidelines apply.

Where terms used in these Guidelines are not defined in this Appendix nor defined in the WMP Guidelines and are defined in the Government Code, Public Utilities Code, or California Public Resources Code, such terms have the meanings ascribed to them in those codes.

Where terms are not defined through the methods specified in this Appendix, such terms carry their ordinarily accepted meanings.

*Attribute*: Nonspatial information about a geographic feature in a GIS, usually stored in a table and linked to the feature by a unique identifier. For example, attributes of a river might include its name, length, and sediment load at a gauging station.

**Attribute Domain**: In a geodatabase, a mechanism for enforcing data integrity. Attribute domains define what values are allowed in a field in a feature class or nonspatial attribute table. If the features or nonspatial objects have been grouped into subtypes, different attribute domains can be assigned to each of the subtypes.

**Attribute Table**: A database or tabular file containing information about a set of geographic features, usually arranged so that each row represents a feature, and each column represents one feature attribute. In a GIS, attribute tables are often joined or related to spatial data layers, and the attribute values they contain can be used to find, query, and symbolize features.

*Feature Class*: Feature classes are homogeneous collections of common features stored in a Geodatabase, each having the same spatial representation, such as points, lines, or polygons, and a common set of attributes, stored in the attribute table.

*Feature Dataset*: In a Geodatabase, a collection of feature classes stored together, often organized around a common theme. All the feature classes in a feature dataset must share the same spatial reference; that is, they must have the same coordinate system. Feature classes with different geometry types may be stored in a feature dataset.

*Field*: A column in a table that stores the values for a single record attribute.

*Foreign Key*: An attribute or set of attributes in one table that match the primary key attributes in another table. Foreign keys and primary keys are used to join tables in a database.

**Geodatabase**: The geodatabase is the native data structure for ArcGIS software and is the primary data format used for editing and data management in that environment. At its most basic level, a geodatabase is a collection of feature classes and tables of various types held in a common file system folder, a Microsoft Access database, or a multiuser relational database management system such as Oracle, Microsoft SQL Server, PostgreSQL, Informix, or IBM DB2.

Geodatabases may optionally have an additional internal level of organization called Feature Datasets.

**GIS**: Stands for geographic information system: a system designed to capture, store, manipulate, analyze, manage, and present all types of geographic location data, allowing the user to question, analyze, and interpret data to understand relationships, patterns, and trends. GIS information is stored in layers of spatial data in a format that can be stored, manipulated, analyzed, and mapped.

*High Wind Warning Only (HWW Only)*: Used in the Wildfire Mitigation Data Tables template workbooks to indicate that a High Wind Warning was the only wind status in effect at a given time and location.

*High Wind Warning and Red Flag Warning (HWW & RFW)*: Used in the Wildfire Mitigation Data Tables template workbooks to indicate that a High Wind Warning *and* a Red Flag Warning were both in effect at a given time and location.

*Metadata*: Information about a dataset that makes the data easier to find, identify, or understand.

**Primary Key**: An attribute or set of attributes in a database that uniquely identifies each record. A primary key allows no duplicate values and cannot be null.

**Projected Coordinate System**: A reference system used to locate x, y, and z positions of point, line, and area features in two or three dimensions. A projected coordinate system is defined by a geographic coordinate system, a map projection, any parameters needed by the map projection, and a linear unit of measure.

**Red Flag Warning Only (RFW Only)**: Used in the Wildfire Mitigation Data Tables template workbooks to indicate that a Red Flag Warning was the only wind status in effect at a given time and location.

**Reportable Ignition:** An event that meets the criteria for a reportable event subject to firerelated reporting requirements as set forth in CPUC Decision 14-02-015, Appendix C, page C-3: https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M087/K892/87892306.PDF

**Schema**: The structure or design of a database or database object, such as a table, view, index, stored procedure, or trigger. In a relational database, the schema defines the tables, the fields in each table, the relationships between fields and tables, and the grouping of objects within the database. Schemas are generally documented in a data dictionary. A database schema provides a logical classification of database objects.

**Shapefile**: The shapefile format is a popular geospatial vector data format for geographic information system (GIS) software. The shapefile format can spatially describe vector features: points, lines, and polygons, representing, for example, water wells, rivers, and lakes. (Source: <u>California Open Data Portal</u>)

## **Appendix C. WMP Initiative Classification**

This Appendix applies the Definitions of Initiatives by Category provided in Appendix A of the WMP Guidelines for the purposes of populating data submission fields related to WMP Initiative Category and WMP Initiative classifications.

WMP INITIATIVE CATEGORY	WMP SECTION	WMP INITIATIVE
Emergency		
Preparedness and		
Community Outreach	11.2	Emergency preparedness and recovery plan
	11.3	External collaboration and coordination
	11.4	Public communication, outreach, and education
	11.5	Customer support in wildfire and PSPS emergencies
Enterprise Systems	12	Summary of Enterprise Systems
Grid Design, Operations, and Maintenance	8.2.1	Covered conductor installation
Wantenance	8.2.1	
	8.2.2	Undergrounding of electric lines and/or equipment
	8.2.3	Distribution pole replacements and reinforcements
	8.2.4	Transmission pole/tower replacements and reinforcements
	8.2.5	Traditional overhead hardening
	8.2.6	Emerging grid hardening technology installations and pilots
	8.2.7	Microgrids
	8.2.8	Installation of system automation equipment
	8.2.9	Line removals (in HFTD)
	8.2.10	Other grid topology improvements to minimize risk of ignitions
	8.2.11	Other grid topology improvements to mitigate or reduce PSPS events
	8.2.12	Other technologies and systems not listed above
	8.3	Asset inspections
	8.4	Equipment maintenance and repair

	8.5	Quality assurance / quality control (asset management)
-	0.5	
	8.6	Work orders (asset management)
-		
	8.7.1	Equipment Settings to Reduce Wildfire Risk
-	8.7.2	Grid Response Procedures and Notifications
		Personnel Work Procedures and Training in Conditions of Elevated
-	8.7.3	Fire Risk
	8.7.4	Workforce Planning (asset management)
Risk Methodology and	_	
Assessment	5	Risk Methodology and Assessment
Situational Awareness	10.2	
and Forecasting	10.2	Environmental monitoring systems
	10.3	Grid monitoring systems
-	10.5	Grid monitoring systems
	10.4	Ignition detection systems
-	1011	
	10.5	Weather forecasting
-		
	10.6	Fire potential index
Vegetation		
Management and		
Inspection	9.2	Vegetation management inspections
-	9.3	Pruning and Removal
-	9.4	Pole clearing
	9.5	Wood and slash management
	9.6	Defensible space
	9.7	Integrated vegetation management
	9.8	Activities based on weather conditions
	9.9	Post-fire service restoration
ļ	9.10	Quality assurance / quality control (vegetation management)
ļ	9.11	Work orders (vegetation management)
	9.12	Workforce Planning (vegetation management)
Wildfire Mitigation	6	Nilding Nationalism Charter and Development
Strategy Development	6	Wildfire Mitigation Strategy Development

## **Appendix D. Required Templates**

The electrical corporation is required to use the submission templates indicated below. All required templates are available on Energy Safety's Data Analytics webpage, located at:

https://energysafety.ca.gov/who-we-are/department-organization/electrical-infrastructure-directorate/data-analytics-division/

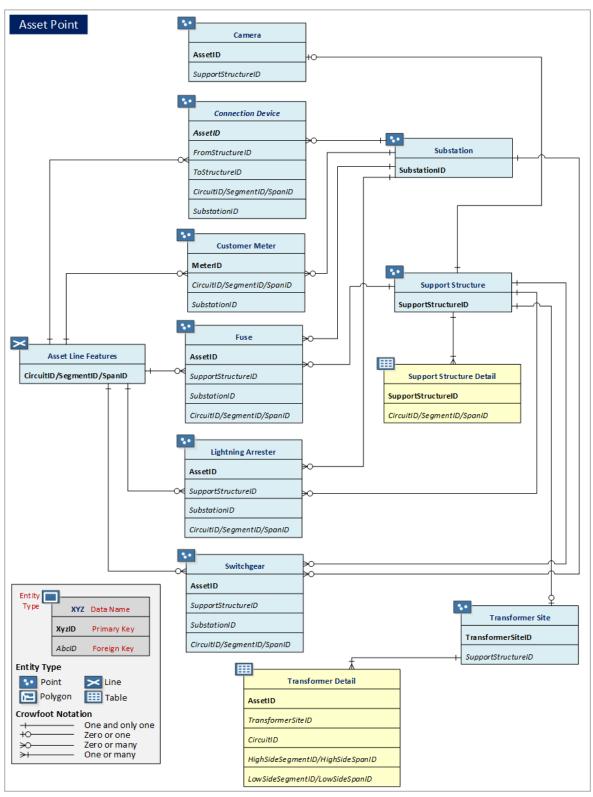
#### **GIS Data Submissions**

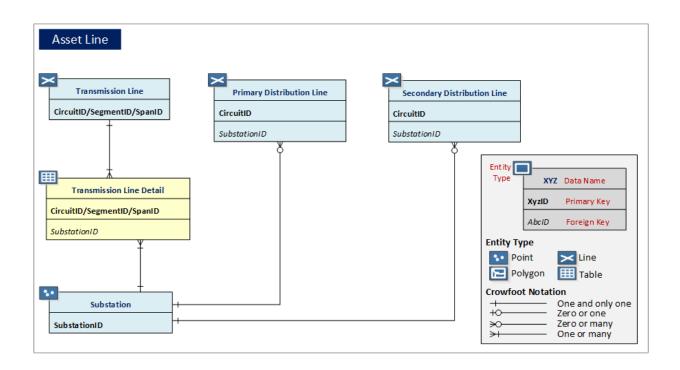
• <u>Template Geodatabase (GDB)</u>

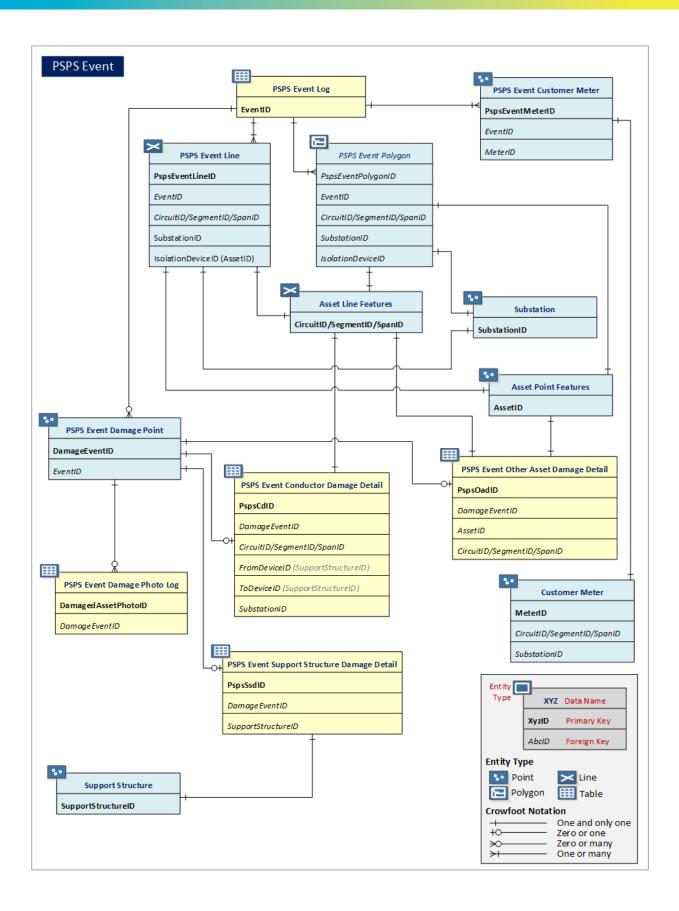
#### **Tabular Wildfire Mitigation Data Submissions**

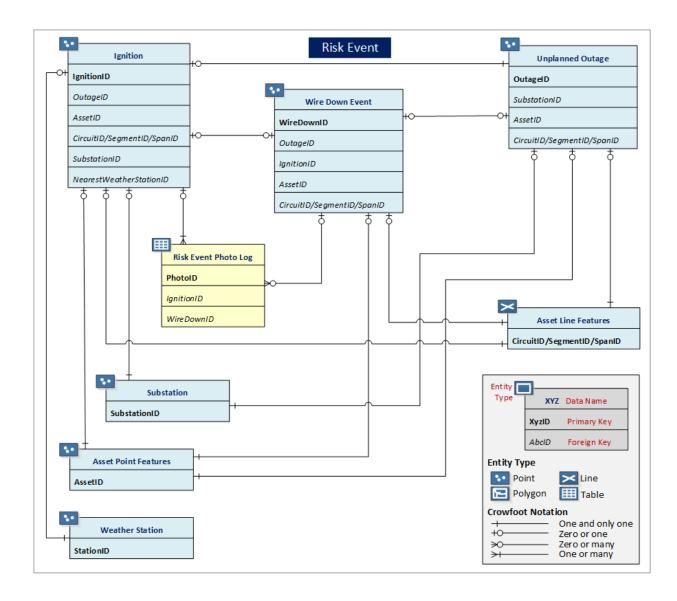
• <u>Energy Safety Wildfire Mitigation Data Template Workbooks</u>, as detailed in Section 4.3.1, above.

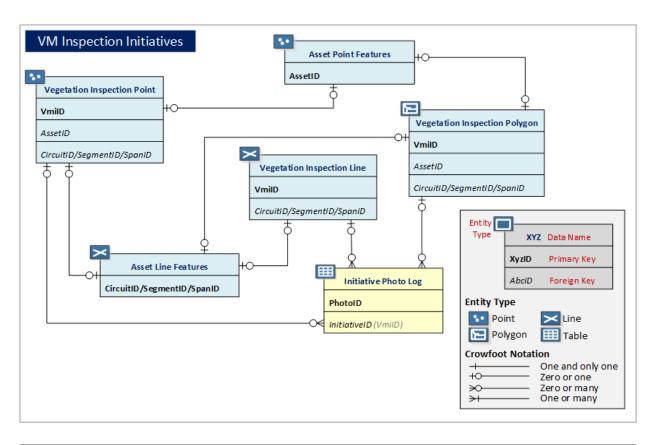
## Appendix E. Spatial Data Entity Relationship Diagrams

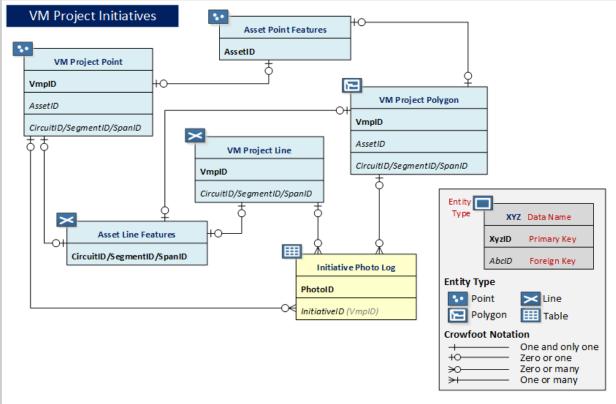


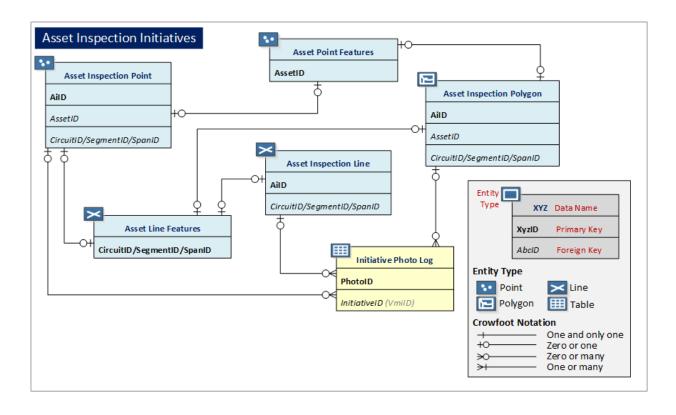


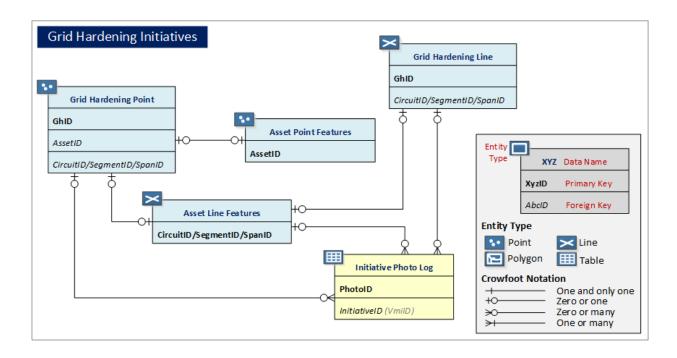


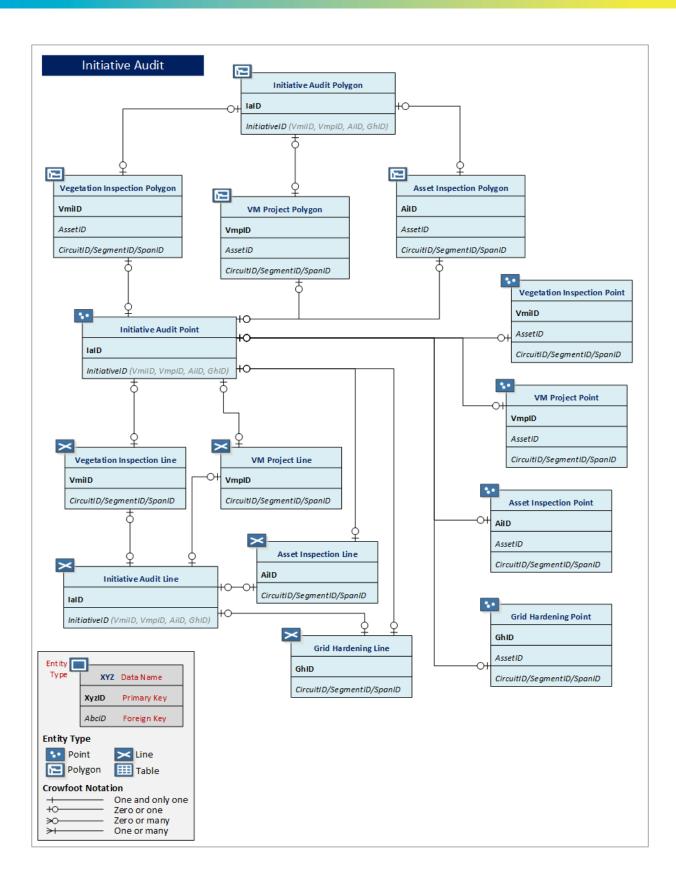


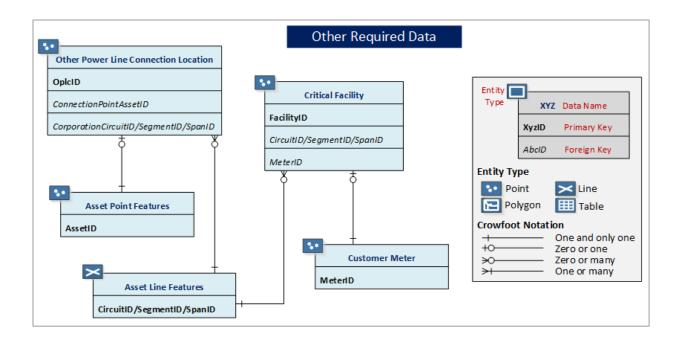












# DATA DRIVEN FORWARD-THINKING INNOVATIVE SAFETY FOCUSED



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