OFFICE OF ENERGY INFRASTRUCTURE SAFETY

DATA GUIDELINES

Version 4.01

MARCH~~FEBRUARY~~ 21~~28~~, 2025

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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 Data Guidelines v4.0
- 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 https://energysafety.ca.gov/who-we-are/department-organization/electrical-infrastructure-directorate/data-analytics-division/.

1.1.1 GIS Version History

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

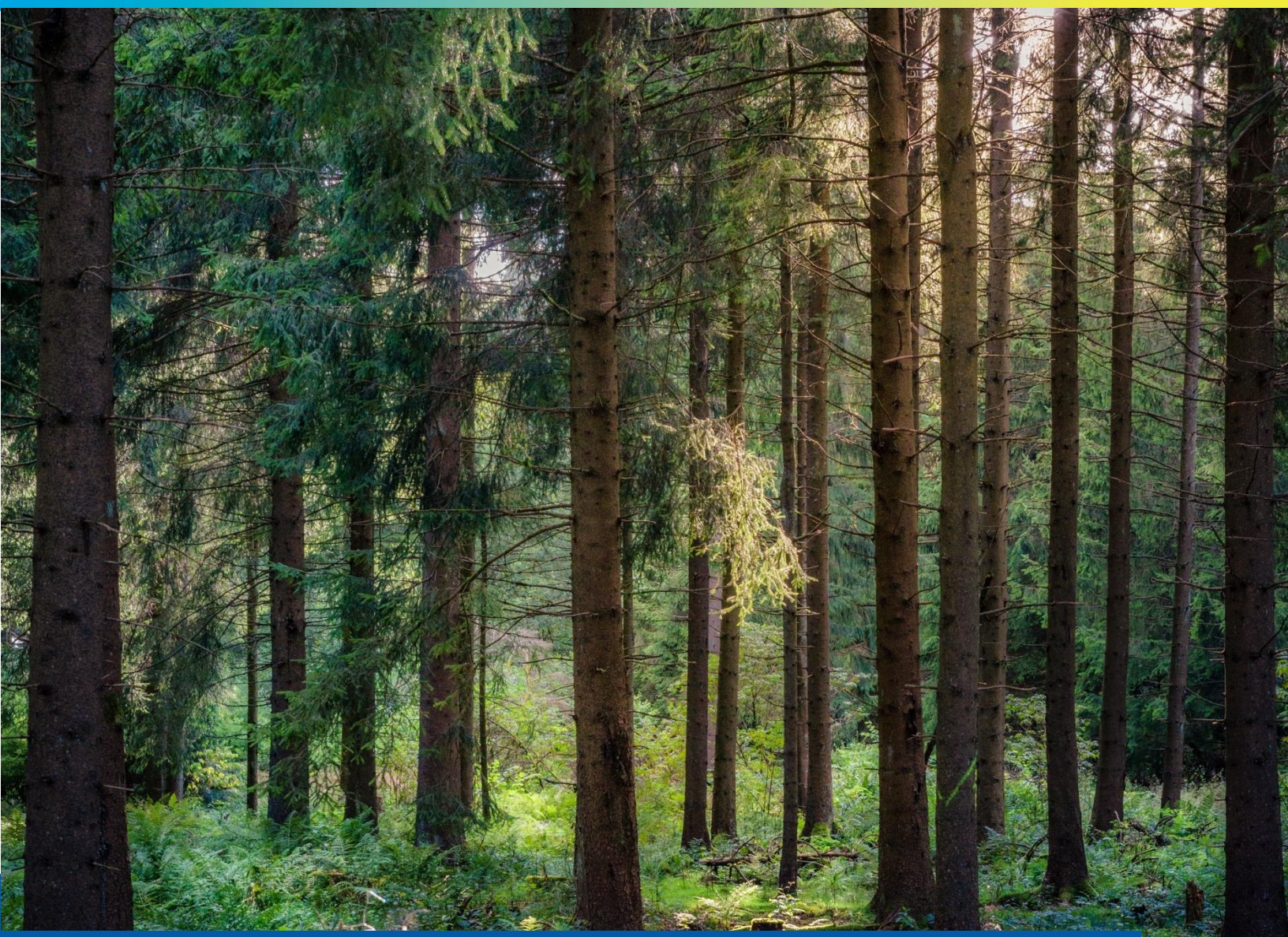
- Energy Safety GIS Data Reporting Standard Guidelines 2.2.1
- Energy Safety GIS Data Reporting Standard v2.2
- Energy Safety GIS Data Reporting Standard v2.1
- Energy Safety GIS Data Reporting Standard v2.0
- Energy Safety GIS Data Reporting Standard v1.0

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
- 2021 Wildfire Mitigation Plans Guidance Documents
- RES WSD-002 Final Guidance Resolution on 2020 Wildfire Mitigation Plans
- Guidance Decision on 2019 Wildfire Mitigation Plans

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



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 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.

Table 1. Quarterly Data Submission Schedule

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 Period	Submission Date: Annual-EOY Tabular Wildfire Mitigation Data
Q1-Q4	February 1

The electrical corporation must submit 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, projections, and risk data	3 days prior to Base WMP or WMP Update submission

The electrical corporation must submit Annual-WMP data 3 days prior to submission of the corresponding Base WMP or 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[1] and according to the file naming conventions specified below.

Table 4. Data Submission Locations & Naming

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 Data Submissions	[Electrical Corporation Abbreviation]_YYYY_Q#_SpatialDataStatusReport.xlsx
Confidentiality Declaration	E-Filing Docket YYYY Data Submissions	[Electrical Corporation Abbreviation] _YYYY_Q#_ConfidentialityDeclaration.[File Ext]
Tabular Wildfire Mitigation Quarterly Data	E-Filing Docket YYYY Data Submissions	[Electrical Corporation Abbreviation]_YYYY_Q#_R#.xlsx
Tabular Wildfire Mitigation Annual-EOY Data	E-Filing Docket YYYY Data Submissions	[Electrical Corporation Abbreviation]_YYYY_EOY_R#.xlsx
Tabular Wildfire Mitigation Annual-WMP Data	E-Filing Docket YYYY Data Submissions	[Electrical Corporation Abbreviation]_YYYY-WMP_R#.xlsx

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.

[1] 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 data@energysafety.ca.gov 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[2]. 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.

[2] 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.[3] Requests for confidential designation must meet Energy Safety's regulatory requirements.[4]

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. Approval date of the related petition to amend (if applicable)
- GIS Data only
    1. Related feature or table name
    2. 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.

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

[3] 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.
[4] See 14 CCR § 29200.

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 to its Annual-WMP data if the electrical corporation's Base WMP or WMP Update is approved without changes to any of the reported targets, projections, or risk data.

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.

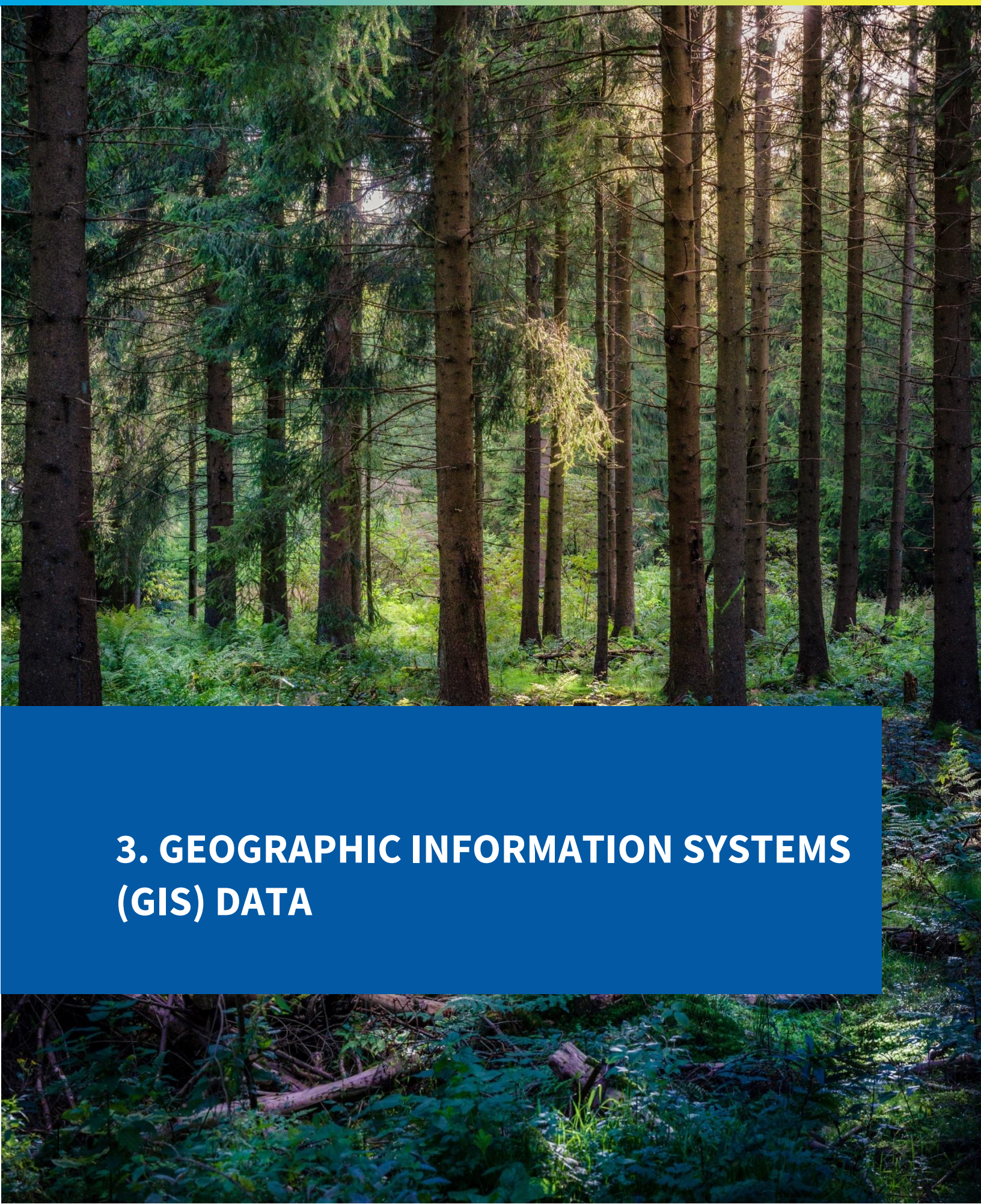
For spatial data sets that include forward looking records, the planning horizon must include the quarter following the reporting period.

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 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 Update.



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 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.

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.

3.6.1.1 Primary 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. 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. 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: • 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 initial 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 "Other, see comment".
AssetOHUG	Is the asset overhead or underground? Possible values: • 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 initial 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. 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 secondary 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 secondary 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 secondary distribution **lines** (rather than on support structures 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: • Transmission • Sub-Transmission 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: • 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.
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 initial 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 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 **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 transmission **lines** (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.
SupportAssetID	Unique ID for asset to which camera is attached. Foreign key to the feature where that asset is found. This field is required.
Asset Feature	Identifies the feature class where the support asset ID should be found. Possible values: • • Substation • Support Structure • Switchgear • Transformer Site This field is required IF SupportAssetID is populated.
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	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: https://ia.cpuc.ca.gov/firemap. This field is required.

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 Name	Field Description
AssetID	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.
FromStructureID	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.
ToStructureID	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.
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.
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	ID of substation associated with asset. Foreign key to the Substation 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.

AssetLocation	Is the asset overhead or underground? Possible values: • Overhead • Underground • Surface (Padmount) This field is required.
ConnectionDeviceType	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.
ConnectionDeviceTypeComment	Connection device type not listed in the options above. This field is required IF ConnectionDeviceType is "Other, see comment".
ConnectionDeviceSubtype	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.
ConnectionDeviceSubtypeComment	Connection device subtype not listed in the options above. This field is required IF ConnectionDeviceSubtype 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.
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 connection device. 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.
InstallationDate	Date the asset was installed. This field OR Installation Year 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.
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: https://ia.cpuc.ca.gov/firemap. 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: • Residential • Non-residential 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	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: https://ia.cpuc.ca.gov/firemap. This field is required.

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: • Yes • No • N/A 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	Type of fuse device. Possible values: • Bridged • Current limiting • Expulsion • Fused elbow • Other, see comment This field is required.
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: https://ia.cpuc.ca.gov/firemap. 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 • 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.
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: https://ia.cpuc.ca.gov/firemap. 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: • BVES • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC 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: https://ia.cpuc.ca.gov/firemap. 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: • BVES • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC 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 • 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.
SupportStructureType	Type of support structure. Possible values: • Pole • Tower • Other, see comment 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: • Wood • Metal • Composite • Wrapped wood • Concrete • Other, see comment 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 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: https://ia.cpuc.ca.gov/firemap. 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: • BVES • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field 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.
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 • 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.
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: • Overhead • Underground • Surface (Padmount) 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 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: • Manual Disconnect • Recloser • Other, see comment This field is required.
SwitchgearTypeComment	Type of switch not identified in "Type" options or more specific info about 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 specific. 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: https://ia.cpuc.ca.gov/firemap. 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: • BVES • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
AssetLocation	Where is/are the transformer(s) located? Possible values: • Overhead • Underground • Surface (Padmount) This field is required.
InaBank	Does a single point represent multiple assets that exist in a bank arrangement? Possible values: • Yes • No This field is required.
QuantityinBank	How many transformers exist in a bank arrangement (if applicable)? This field is required if InaBank is "Yes".
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: https://ia.cpuc.ca.gov/firemap. This field is required.

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 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	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.
TransformerRating	Nominal electrical load capacity in kilovolt amps (kVAs). 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 • PG&E • 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	Where is the weather station installed? Possible values: • Ground • Pole This field is required.

HasAnemometer	Does this weather station include an anemometer? Possible values: • Yes • 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 https://raws.nifc.gov/standards-guidelines. 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: https://ia.cpuc.ca.gov/firemap. This field is required.

3.6.3 Initiative (Feature Dataset)

In general, for all initiatives, if the units for the reported WMP mitigation activity ("activity") targets and progress do not match the geometry of the feature (e.g., grid hardening target 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 activity. If the electrical corporation reports the same activity in more than one feature, it must identify the duplicate activities in metadata, and the activity 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 will not take corrective action until after the next data submission, the electrical corporation must still populate the "PhotoBeforeID" and "VmiID" or "AiID" fields prior to submission.

3.6.3.1.2 Asset Inspection Line (Feature Class)

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 • PG&E • SCE • SDG&E • TBC This field is required.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMATID fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
ActivityClass	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.
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	Identifies the feature class where the Segment 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 line is focused on conductor.
InspectionLocationOrAddress	Address or location description for the inspection location. This field is optional.

WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
InspectionProgramName	Inspection program name for the inspection activity. This must match the program name as specified in the electrical corporation's WMP. This may be the same as "WMP Activity". 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.
UnitsRepresented	The number of initiative target units represented by the line, if not equal to the line's length. Blank (null) values will be interpreted as the line representing its length. This field is required IF the line represents a different number of units than its length.
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: • 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 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: https://ia.cpuc.ca.gov/firemap. 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".

3.7.3.1.3 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: • BVES • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID AND UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
ActivityClass	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 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 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.
InspectionLocationOrAddress	Address or location description for the inspection location. This field is optional.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
InspectionProgramName	Inspection program name for the inspection activity. This must match the program name as specified in the electrical corporation's WMP. This may be the same as "WMP Activity". 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.
UnitsRepresented	The number of initiative target units represented by the point if more than 1. For example, the electrical corporation may represent multiple assets inspected at a single location with one point. The electrical corporation 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.
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: • 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 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: https://ia.cpuc.ca.gov/firemap. This field is required.

3.6.3.1.4 Asset Inspection Polygon (Feature Class)

Field Name	Field Description
AiID	Unique ID or job ID of an asset inspection activity. Primary key for the Asset 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.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.

ActivityClass	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 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 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 on conductor.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.

InspectionProgramName	Inspection program name for the inspection activity. This must match the program name as specified in the electrical corporation's WMP. This may be the same as "WMP Activity". 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.
UnitsRepresented	The number of initiative target units represented by the polygon, if not equal to the polygon's area. Blank (null) values will be interpreted as the polygon representing its area. This field is required IF the polygon represents a different number of units than its area.
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: • 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: https://ia.cpuc.ca.gov/firemap. 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 GIS 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 activity may comprise more than one of these types of work.

The electrical corporation must report activities involving only inspection in the appropriate Asset Inspection feature and not in a Grid Hardening feature.

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.

3.6.3.2.2 Grid Hardening Line (Feature Class)

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.
AssetOHUG	Is the asset overhead or underground? Possible values: • Overhead • Underground 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.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, 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 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 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 activity represented by the point is focused on conductor.
GridHardeningLocationOrAddress	Address or location description for the grid hardening location. This field is optional.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
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 line, if not equal to the line's length. Blank (null) values will be interpreted as the line representing its length. This field is required IF the line represents a different number of units than its length.
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 GhStatus 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 GhStatus is "Complete".
LineDeenergized	Do lines need to be de-energized to perform the work? Possible values: • Yes • No This field is required.
PerformedBy	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: https://ia.cpuc.ca.gov/firemap. 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: • 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.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, 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 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 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 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 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 activity represented by the point is focused on conductor.
GridHardeningLocationOrAddress	Address or location description for the grid hardening location. This field is optional.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
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 electrical corporation may represent multiple assets replaced at a single location with one point. Blank (null) and "1" values will be interpreted as representing a single unit. This field is required IF the point represents more than 1 target unit.
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 GhStatus 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 GhStatus is "Complete".

LineDeenergized	Do lines need to be de-energized to perform the work? Possible values: • Yes • No This field is required.
PerformedBy	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 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: https://ia.cpuc.ca.gov/firemap. This field is required.

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.

3.6.3.3.2 Initiative Audit Line

Field Name	Field Description
IaID	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 activity that was audited. This is the foreign key to the initiative features (AiID, GhID, OiID, VmiID, VmpID). This field is required.
UMATID	Utility Mitigation Activity Tracking ID of the activity 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 audit 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
IaID	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 activity that was audited. This is the foreign key to the initiative features (AiID, GhID, OiID, VmiID, VmpID). This field is required.
UMATID	Utility Mitigation Activity Tracking ID of the activity 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 audit 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
IaID	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 activity that was audited. This is the foreign key to the initiative features (AiID, GhID, OiID, VmiID, VmpID). This field is required.
UMATID	Utility Mitigation Activity Tracking ID of the activity 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 audit 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.

3.6.3.4.2 Other Initiative Line (Feature Class)

Field Name	Field Description
OiID	Unique ID or job ID of an activity performed under 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.

UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
LocationOrAddress	Address or location description for the activity. This field is optional.
WMPCategory	The name of the WMP mitigation category, as defined by Energy Safety, under which the initiative is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values. This field is required.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
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.
UnitsRepresented	The number of initiative target units represented by the line, if not equal to the line's length. Blank (null) values will be interpreted as the line representing its length. This field is required IF the line represents a different number of units than its length.
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 OiStatus 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 OiStatus 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: https://ia.cpuc.ca.gov/firemap. 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
OiID	Unique ID or job ID of an activity performed under an Other Initiative. 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 This field is required.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
LocationOrAddress	Address or location description for the activity. This field is optional.
WMPCategory	The name of the WMP mitigation category, as defined by Energy Safety, under which the initiative is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values. This field is required.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
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.
UnitsRepresented	The number of initiative target units represented by the point if more than 1. For example, the electrical corporation may represent multiple assets replaced at a single location with one point. Blank (null) and "1" values will be interpreted as representing a single unit. This field is required IF the point represents more than 1 target unit.

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 OiStatus 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 OiStatus 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: https://ia.cpuc.ca.gov/firemap. This field is required.

3.6.3.4.4 Other Initiative Polygon (Feature Class)

Field Name	Field Description
OiID	Unique ID or job ID of an activity performed under an Other Initiative. 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.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
LocationOrAddress	Address or location description for the activity. This field is optional.
WMPCategory	The name of the WMP mitigation category, as defined by Energy Safety, under which the initiative is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values. This field is required.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.

WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
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.
UnitsRepresented	The number of initiative target units represented by the polygon, if not equal to the polygon's area. Blank (null) values will be interpreted as the polygon representing its area. This field is required IF the polygon represents a different number of units than its area.
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 OiStatus 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 OiStatus 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: https://ia.cpuc.ca.gov/firemap. 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 provides 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 must report only inspection activities in these feature classes. If there is a single activity that includes both inspecting and performing vegetation management, the electrical corporation must report that activity using the appropriate Vegetation Management Project feature.

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.

3.6.3.5.2 Vegetation Inspection Line (Feature Class)

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.

UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
ActivityClass	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.
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	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 line is focused on conductor (e.g., radial clearance).
InspectionLocationOrAddress	Address or location description for the inspection location. This field is optional.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
InspectionProgramName	Inspection program name for the inspection activity. This must match the program name as specified in the electrical corporation's WMP. This may be the same as "WMP Activity". This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.

InspectionStatus	The status of the vegetation inspection project. Possible values: • Planned • In progress • Complete This field is required.
UnitsRepresented	The number of initiative target units represented by the line, if not equal to the line's length. Blank (null) values will be interpreted as the line representing its length. This field is required IF the line represents a different number of units than its length.
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 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 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	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: https://ia.cpuc.ca.gov/firemap. 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
VmiID	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.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
ActivityClass	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 support 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 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 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., 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 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 the inspection activity represented by the point is focused on 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.
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 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, Strlitzia, 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 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 IsTree is not "No".
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.

ActivityDescription	Description of the activity.
InspectionProgramName	Inspection program name for the inspection activity. This must match the program name as specified in the electrical corporation's WMP. This may be the same as "WMP Activity". This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
InspectionStatus	The status of the vegetation inspection project. 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 electrical corporation may represent multiple assets replaced at a single location with one point. Blank (null) and "1" values will be interpreted as representing a single unit. This field is required IF the point represents more than 1 target unit.
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 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 inspection. Trees over 6" DBH and outside a 4' radius of the conductor must be reported. 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	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 the management 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. Possible values: • Tier 3 • Tier 2 • Non-HFTD HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap. This field is required.

3.6.3.5.4 Vegetation Inspection Polygon (Feature Class)

Field Name	Field Description

VmiID	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.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
Activity Class	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.
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 on 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.
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.
InspectionLocationOrAddress	Address or location description for the inspection location. This field is optional.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
InspectionProgramName	Inspection program name for the inspection activity. This must match the program name as specified in the electrical corporation's WMP. This may be the same as "WMP Activity". This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
InspectionStatus	The status of the vegetation inspection project. Possible values: • Planned • In progress • Complete This field is required.
UnitsRepresented	The number of initiative target units represented by the polygon, if not equal to the polygon's area. Blank (null) values will be interpreted as the polygon representing its area. This field is required IF the polygon represents a different number of units than its area.
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 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 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	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 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".

3.6.3.6 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 provides 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 management project data in any geospatial geometry, they must start recording vegetation management project 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 must report activities involving only inspection in the appropriate Vegetation Inspection feature and not in a Vegetation Management Project feature.

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.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
ActivityClass	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: • Regulatory • Discretionary This field is required.
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 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.
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: • Yes • No This field is required.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
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".
UnitsRepresented	The number of initiative target units represented by the line, if not equal to the line's length. Blank (null) values will be interpreted as the line representing its length. This field is required IF the line represents a different number of units than its length.
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, the electrical corporation may approximate EndDate as the 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	How is brush or slash generated by the vegetation management project being managed or treated? Possible values: • None • 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 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" 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 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: https://ia.cpuc.ca.gov/firemap. 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.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity’s entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation’s WMP(s). This field should remain static even if WMP category, WMP initiative, or WMP Section numbers change. This field is required.
ActivityClass	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: • Regulatory • Discretionary This field is required.
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: • Transmission Line • Primary Distribution Line • Secondary Distribution Line This field is required IF SegmentID or CircuitID is populated.
ProjectLocationOrAddress	Address or location description for vegetation project location. This field is optional.
IsTree	Does the point represent a tree or other vegetation location? Possible values: • Yes • No This field is required.
TreeID	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: *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 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	Generalized growth rate of the subject tree species. Possible values: • Slow growing • Moderately growing • Fast growing This field is required IF IsTree is not "No".
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: • Yes • No This field is required.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.
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".
UnitsRepresented	The number of initiative target units represented by the point if more than 1. For example, the electrical corporation may represent multiple assets replaced at a single location with one point. Blank (null) and "1" values will be interpreted as representing a single unit. This field is required IF the point represents more than 1 target unit.
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: • 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	How is brush or slash generated by the vegetation management project being managed or treated? Possible values: • None • 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 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" 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. Possible values: • Tier 3 • Tier 2 • Non-HFTD HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap. 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.
UMATID	This is the Utility Mitigation Activity Tracking ID, a unique tracking ID for a given activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. This field must correspond with the Utility Mitigation Activity Tracking ID referenced where the activity is discussed in the electrical corporation's WMP(s). This field should remain static even if WMP category, WMP initiative, 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? Clearances to greater than required distance are considered discretionary. Possible values: • Regulatory • Discretionary This field is required.

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 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.
WMPInitiative	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. WMP Initiative Classification* for acceptable field values.
WMPActivity	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety. This field is required.
ActivityDescription	Description of the activity.

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".
UnitsRepresented	The number of initiative target units represented by the polygon, if not equal to the polygon's area. Blank (null) values will be interpreted as the polygon representing its area. This field is required IF the polygon represents a different number of units than its area.
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	How is brush or slash generated by the vegetation management project being managed or treated? Possible values: • None • 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 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 "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 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".
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 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" 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 activity 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 activities. Possible values: • Before • After • N/A Use “N/A” for photos which are not before/after. This field is required.
InitiativeID	Unique ID of the related activity. This is the foreign key to the initiative features (AiID, GhID, OiID, VmiID, VmpID, IaId). 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.

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 territory polygon must be submitted with areas removed to account for embedded 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 must submit the latest version with their subsequent quarterly data submission. 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 • PG&E • 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 fall 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 if 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: https://ia.cpuc.ca.gov/firemap. 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.[5]

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.

[5] 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: *Acacia, Agave, Ailanthus, Albizia, Arctostaphylos, Callistemon, Casuarina, Catalpa, Ceanothus, Citrus, Corymbia, Eucalyptus, Lagerstroemia, Ligustrum, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Pyrus, Strelitzia, Syzygium, Salix, 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. 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 • Liberty • LS Power • 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 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 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: • 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.
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: https://ia.cpuc.ca.gov/firemap. 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[6]. 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 • TBC 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.

[6]Fire weather zone GIS polygon data is available at https://www.weather.gov/gis/FireZones

NumberRedFlagWarningDays	Number of Red Flag Warning days. This field is required.

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: • BVES • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
MeterType	Broad Classification of customer type. Possible Values: • Residential • Non-residential This field is required.
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: https://ia.cpuc.ca.gov/firemap. 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: • BVES • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC 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: https://ia.cpuc.ca.gov/firemap. 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 stable IDs for circuit segments.
CircuitID	Unique ID of the circuit that was de-energized. Foreign key to the asset line features if 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: • Transmission Line • Primary Distribution Line • Secondary Distribution Line This field is required.
SubstationID	Unique ID of the substation/feeder feeding the circuit that was de-energized during the 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 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 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.

3.6.5.6 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 per instance of damage.

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.
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 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.” 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”.
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 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".

3.6.5.6.2 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 • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
FuelBedPhotoID	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. Photos must be geotagged JPEG or PNG files. Use the following naming format: UtilityName_InspectorInitial_PspsDamageFuelBed_YYYYMMDD_Photo#. For example, "Utility_AB_PspsDamageFuelBed_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_PspsDamageFuelBed_20220826_1.png"). This field OR DamagedAssetPhotoID is required.
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.

AssetRisk	Was a higher probability of asset failure a driving risk factor in the PSPS decision? Possible values: • Yes • No This field is required.
DeadFuelRisk	Was a high presence of dead fuel a driving risk factor in the PSPS decision? Possible values: • Yes • No This field is required.
LiveFuelRisk	Was a high presence of live fuel a driving risk factor in the PSPS decision? Possible values: • Yes • No This field is required.
RedFlagWarningRisk	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.
OtherRisk	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.
OtherRiskReason	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,” etc. This field is required IF OtherRisk is “Yes”.

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 • LS Power • PacifiCorp • PG&E • 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.
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 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 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 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 • PG&E • 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	Description of damage. Possible values: • Broken pole • Damaged pole • Broken tower • Damaged tower • Broken crossarm • Damaged crossarm • Broken/damaged down guy • Broken/damaged anchor • Other, see comment This field is required.
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, or other vegetation implicated in causing the ignition. 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.

See Appendix B of this document for the definition of a reportable 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: • Yes • No 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.

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	The suspected initiating event of the ignition. Possible values: • Dig-in • Object contact • Vegetation contact • Equipment failure • Wire-to-wire contact • Contamination • Protective device operation • Vandalism/theft • Lightning • Unknown • Other, see comment “Object contact” only to be used for objects other than vegetation, do not use for vegetation contact. This field is required.
SuspectedInitiatingCauseComment	Suspected ignition initiating event that is not listed in the options above. This field is required IF SuspectedInitiatingCause is “Other, see comment”.
ObjectContact	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: • Animal contact • Balloon contact • Land vehicle contact • Aircraft vehicle contact • 3rd party facility • Other, see comment This field is required IF SuspectedInitiatingCause 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 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 bamboo but may optionally be filled out for other vegetation. This field is required IF SuspectedInitiatingCause is "Vegetation contact" AND the vegetation that made contact was a palm or bamboo species.
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 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.
OtherCcompanies	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	The type of equipment involved in the ignition event. Possible values: • Overhead • Pad-mounted • Subsurface This field is required.

Determination	The entity relied upon to make the determination that was used to fill in the value of the SuspectedInitiatingCause field above. Possible values: • Utility personnel • Fire agency • Other, see comment This field is required.
DeterminationComment	Determination entity not listed in the options above. This field is required IF Determination is “Other, see comment”.
FacilityContacted	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: 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 SuspectedInitiatingCause 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 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: • Connection Device • Fuse • Lightning Arrester • Support Structure • Switchgear • Transformer Site 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 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. Possible values: • Transmission Line • Primary Distribution Line • Secondary Distribution Line 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 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	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”.
OriginLandUse	Status of land at origin of ignition. Possible values: • Rural • Urban Urban is defined as more than 1,000 people per square mile using U.S. Census data at the tract level or smaller units. All other areas will be considered rural. This field is required.

MaterialAtOrigin	Fuel material for the ignition origin, Possible values: • Vegetation • Structure • Other, see comment This field is required.
MaterialAtOriginComment	Origin material not listed in the options above. This field is required IF MaterialAtOrigin is “Other, see comment”.
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”.
FireSize	Size, in acres unless otherwise indicated, of fire resulting from the ignition. Possible values: • Structure-only • <3 meters of linear travel • <0.25 • 0.26-9.99 • 10-99 • 100-299 • 300-999 • 1,000-4,999 • 5,000+ • Unknown This field is required.
SuppressedBy	Entity responsible for suppressing ignition. Possible values: • Customer • Fire agency • Self-extinguished • Utility • Unknown 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	Whether the fire authority having jurisdiction investigated the ignition and the status of the investigation. Possible values: • Yes, complete • Yes, pending • No This field is required.
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	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: • Tier 3 • Tier 2 • Non-HFTD HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap. This field is required.
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	Identifies the line class of the outage. Possible values: • Transmission • Distribution Sub-transmission should be described as "Transmission". 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 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 This field is required.
BasicCauseComment	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	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: • Animal contact • Balloon contact • Land vehicle contact • Aircraft vehicle contact • 3rd party contact • Other, see comment This field is required IF BasicCause is “Object contact”.
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	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.
ExpulsionFuseOperation	Did an expulsion fuse operate during the outage? Possible values: • Yes • No This field is required.
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. *Note: The electrical corporation may use a different definition of "momentary" – if so, specify in the "OutageIntervalAlternativeDefinition" field.* This field is required.
CustomersOutSustained	Total number of unique customers that experienced an outage lasting longer than 5 minutes. *Note: The electrical corporation may use a different definition of "momentary" – if so, specify in the "OutageIntervalAlternativeDefinition" field.* 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	Indication of whether the subject outage was momentary (i.e., 5 minutes or less) or sustained (i.e., longer than 5 minutes). Possible values: • Momentary • Sustained *Note: The electrical corporation may use a different definition of "momentary" – if so, specify in the "OutageIntervalAlternativeDefinition" field.* This field is required.
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 • Disabled • 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: • Circuit breaker • Fuse • Recloser • Switch • Other, see comment 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	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: • Tier 3 • Tier 2 • Non-HFTD HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap. This field is required.
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	Did the outage occur (begin) during a red flag warning? Possible Values: • Yes • No This field is required.

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: • BVES • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
OutageStatus	Was there an outage associated with the event? Possible values: • Yes • No This field is required.
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: • Connection Device • Fuse • Lightning Arrester • Support Structure • Switchgear • Transformer Site 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 • Vegetation contact • Equipment failure • Wire-to-wire contact • Contamination • Vandalism/theft • Lightning • Unknown • 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	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: • 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”.

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 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 drop • Splice/clamp/connector • Switch • Tie wire • Transformer • Voltage regulator • 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	Material of the conductor that failed in the wire down event. 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 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	Was the conductor energized while in contact with a grounded object during the event? If the wire down event did not result in contact with a grounded object, then enter "N/A" for this field. Possible values: • Yes • No • N/A This field is required.

IgnitionStatus	Was there an ignition associated with the wire down event? Possible values: • Yes • No This field is required.
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	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: • Tier 3 • Tier 2 • Non-HFTD HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap. 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: • BVES • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
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:
    - **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, annually according to the calendar year (Annual-EOY), and annually according to submission of a WMP (Annual-WMP). The electrical corporation must use the designated template workbook for each 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 must not 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 XYYZZZZZZZ, 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 mitigation activities ("activities") as a row in Wildfire Mitigation Data Table 1. These are the activities that accomplish the electrical corporation's WMP mitigation initiatives ("initiatives"), as defined in the WMP Guidelines. The electrical corporation reports its actual progress for each activity using Table 1 of the Quarterly Template Workbook and its targets and projections for each activity 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 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

ACTIVITY CLASSIFICATION	• Program - an ongoing, foundational function or operation (i.e., detailed asset inspections) • Project - a finite effort with a start and end date, typically an enhancement to the grid (i.e., installing a microgrid, undergrounding a circuit segment, etc.) • Pilot - typically limited in scope, experimental, and exploratory studies of new equipment, technology, etc. for consideration of broader deployment	Restricted to values indicated in Field Description
PROJECT START DATE	Related to ACTIVITY CLASSIFICATION field if selection is "Project".	Date
PROJECT END DATE	Related to ACTIVITY CLASSIFICATION field if selection is "Project".	Date
WMP ACTIVITY NAME	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety.	Text
ACTIVITY DESCRIPTION	500-character text field.	Text
ACTIVITY OBJECTIVE	A statement of the activity's intent that is limited to 500 characters (i.e., what does the electrical corporation plan to accomplish with this activity). The statement must be of sufficient detail to permit the assessment of the electrical corporation's ability to achieve this objective.	Text
WMP CATEGORY	The WMP mitigation category under which the related initiative and activity are organized. See *Appendix C. Initiative Classification* for acceptable field values.	Restricted to values indicated in Field Description
WMP INITIATIVE	The name of the WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. Initiative Classification* 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 related mitigation initiative name as it is reported in the electrical corporation's WMP.	Text
WMP SECTION	The WMP section number under which WMP INITIATIVE or WMP INITIATIVE NAME IF OTHER is discussed. See *Appendix C. Initiative Classification* for field values.	Numeric Text
UTILITY MITIGATION ACTIVITY TRACKING ID	The unique tracking ID for a given WMP mitigation activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle.	Text

WMP ACTIVITY CODE	Coded Unique ID of the activity. Must be unique for each activity for each electrical corporation for each year. Follows the format "[UTILITY ID]_[WMP CATEGORY]_[WMP INITIATIVE]_[UTILITY MITIGATION ACTIVITY 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 UTILITY ID is PG&E, WMP CATEGORY is Vegetation Management & Inspections, WMP INITIATIVE is Substation vegetation management, UTILITY MITIGATION ACTIVITY TRACKING ID is 001 and the reporting year is 2021.	Text
WMP PAGE NUMBER	Page of the related WMP where the activity is detailed. For the Annual-WMP data submission that is concurrent with the initial submission of a Base WMP, "related" means the Base WMP as submitted by the electrical corporation. For the Annual-WMP data submission that is concurrent with a WMP Update or for the Quarterly data submissions, "related" means the most recently approved WMP. If the initiative is detailed on multiple pages, indicate the first page.	Integer
RISK TARGET REDUCTION	Risk components targeted for reduction by implementing the activity: • Equipment ignition likelihood • Contact from vegetation ignition likelihood • Contact by object ignition • Wildfire spread • Wildfire hazard • Wildfire exposure potential • Wildfire vulnerability • PSPS likelihood • PSPS exposure potential • 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 the activity has a quantitative target, then report the units for the target. For example, if the activity 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. End of year targets must not change unless a petition to amend has been approved by Energy Safety.	Numeric ≥ 0
PROJECTED QUANTITATIVE PROGRESS Q1	YTD Quantitative projected progress by end of Q1: Jan 1 - Mar 31	Numeric ≥ 0
PROJECTED QUANTITATIVE PROGRESS Q1-2	YTD quantitative projected progress by end of Q2: Jan 1 - June 30. Q1 projected progress + Q2 projected progress	Numeric ≥ 0
PROJECTED QUANTITATIVE PROGRESS Q1-3	YTD quantitative projected progress by end of Q3: Jan 1 - Sep 30. Q1 projected progress + Q2 projected progress + Q3 projected progress	Numeric ≥ 0
PROJECTED QUANTITATIVE PROGRESS Q1-4	YTD quantitative projected progress by end of Q4: Jan 1 - Dec 31.	Numeric ≥ 0
ANNUAL QUALITATIVE TARGET	If the activity has a qualitative target, then detail the target. For example, if the activity is building a centralized data lake, then the target may be "Developing a centralized data lake by end of year."	Text

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	Activity status designations progress over time from Planned to In Progress to Completed, as the electrical corporation submits its wildfire mitigation data. Activity status must not revert to an upstream status designation. Acceptable values are as follows: • Planned • In Progress • Completed • Delayed • Cancelled	Restricted to values indicated in Field Description
CORRECTIVE ACTIONS IF DELAYED	If projected progress vs actual progress indicates a delay in the electrical corporation's implementation of the 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.	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 1of the related Base WMP.	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the related 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 related 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 related 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 period	Numeric ≥ 0, or 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 actuals and the Annual-WMP Template workbook to report projections for 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 both the Quarterly Template Workbook and the Annual-WMP Template Workbook. All fields are required.

The Table 3 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 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 WMP mitigation 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

Table 3 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year 1 of the related Base WMP.	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the related 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 related 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 related WMP cycle.	Numeric ≥ 0, or blank

Table 3 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

4.3.6 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
RISK EVENT DRIVER TRACKED	Whether this category of risk events is tracked for ignition driver. Possible values: • Yes • No	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 5 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year 1 of the related Base WMP.	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the related 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 related 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 related 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 period	Numeric ≥ 0, or 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**
IGNITION DRIVER TRACKED	Whether this category of ignitions is tracked for ignition driver. Possible values: • Yes • No	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 1 of the related Base WMP.	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the related 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 related 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 related 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 period	Numeric ≥ 0, or 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 1 of the related Base WMP.	Integer

PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the related 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 related 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 related 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 period	Numeric ≥ 0, or 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 not 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 1 of the related Base WMP.	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the related 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 related 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 related 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 1 of the related Base WMP.	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the related 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 related 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 related 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 2100000000, *Frequency of PSPS events (total)*;
- Row 2100000001, *Scope of PSPS events (total)*;
- Row 2100000002, *Duration of PSPS events (total)*; and
- Row 21000000131, *# 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 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 10 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year 1 of the related Base WMP.	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the related 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 related 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 related 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

4.3.13 Table 11: Mitigation Initiative Financials

The electrical corporation must report the actual and projected costs of initiatives in Wildfire Mitigation Data Table 11. For those activities defined by Energy Safety, the electrical corporation must provide Table 11 reporting at the activity level. For all other activities, the electrical corporation must provide Table 11 reporting at the initiative level. The electrical corporation reports actual expenditures using the Annual-EOY Template Workbook and projected expenditures using the Annual-WMP Template Workbook.

For each initiative or activity, the electrical corporation must categorize expenditures by type, as either capital expenditure (CAPEX) or operational 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 MITIGATION ACTIVITY TRACKING IDS	The unique tracking ID for a given WMP mitigation activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity's entire lifecycle. List all Mitigation Activity Tracking IDs associated with the initiative as specified in the template, using a semicolon as a delimiter.	Text
PRIMARY DRIVER TARGETED	Specific risk component / outcome metric which is expected to be impacted by the initiative	Text
SECONDARY DRIVERS TARGETED	Additional risk components / outcome metrics which are expected to be impacted by the initiative	Text
YEAR INITIATED	The year the related Initiative was initiated.	Text
MOST RECENT PROCEEDING	If this is an existing program, list the most recent proceeding that has reviewed this program. If this program is new, leave this column blank.	Text
MEMORANDUM ACCOUNT	If this is a new program, list the memorandum account. If this is an existing program, leave this column blank.	Text
CURRENT COMPLIANCE STATUS	Meeting/exceeding compliance with regulations. Possible values: • In Compliance • Exceeding Compliance • Not In Compliance	Restricted to values indicated in Field Description
ASSOCIATED RULES	Rulings associated with the initiative. If multiple, separate by semicolon.	Text
OTHER SPEND CATEGORY	If spending not otherwise disaggregated by category, note spend category or mark general operations.	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

Table 11 fields exclusive to the Annual-WMP Template Workbook are as follows:

WMP CYCLE START YEAR	Year 1 of the related Base WMP.	Integer
PROJECTED CYCLE YEAR 1 VALUE	Projected annual value for the indicated metric for the first year of the related 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 related 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 related WMP cycle.	Numeric ≥ 0, or blank

Table 11 fields exclusive to the Annual-EOY Template Workbook are as follows:

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

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

The electrical corporation must report midyear and end-of-year WMP mitigation activity targets in Wildfire Mitigation Data Table 12. The electrical corporation must report end-of-year (Q4) targets for all activities 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 ACTIVITY NAME	The name for the WMP mitigation activity. This will be defined either by the electrical corporation or Energy Safety, according to Appendix A of the WMP Guidelines. See *Appendix C. WMP Initiative Classification* for acceptable field values of activities defined by Energy Safety.	Text
WMP CATEGORY	The WMP mitigation category under which the related initiative and activity are organized. See *Appendix C. Initiative Classification* for acceptable field values.	Restricted to values indicated in Field Description
WMP INITIATIVE	The name of the related WMP mitigation initiative, as defined by Energy Safety, under which the activity is organized. See *Appendix C. Initiative Classification* 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 MITIGATION ACTIVITY TRACKING ID	The unique tracking ID for a given WMP mitigation activity. This ID must match the UTILITY MITIGATION ACTIVITY TRACKING ID and UMAT fields for the same activity in all data submissions for the activity’s entire lifecycle.	Text
TARGET TYPE	• Qualitative • Quantitative	Text
UNIT(S)	Units used to measure and report targets and actuals	Text

METHOD OF VERIFICATION	• 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). • If Quantitative: Populate as "Quantitative"	Text
COMMENTS	Additional comments by the electrical corporation on the activity. This field is optional.	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 activity progress for first year of WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	If qualitative: Text If quantitative: Numeric ≥ 0
YTD TARGET - Y1 Q3	End of Q3 YTD target activity progress for first year of WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	If qualitative: Text If quantitative: Numeric ≥ 0
YTD TARGET - Y1 Q4	End of Q4 YTD target activity progress for first year of WMP cycle. Year 2 and Year 3 versions of the Annual-WMP Template Workbook do not contain this column.	If qualitative: Text If quantitative: Numeric ≥ 0
YTD TARGET - Y2 Q2	End of Q2 YTD target activity progress for second year of WMP cycle. Year 3 version of the Annual-WMP Template Workbook does not contain this column.	If qualitative: Text If quantitative: Numeric ≥ 0
YTD TARGET - Y2 Q3	End of Q3 YTD target activity progress for second year of WMP cycle. Year 3 version of the Annual-WMP Template Workbook does not contain this column.	If qualitative: Text If quantitative: Numeric ≥ 0
YTD TARGET - Y2 Q4	End of Q4 YTD target activity progress for second year of WMP cycle. Year 3 version of the Annual-WMP Template Workbook does not contain this column.	If qualitative: Text If quantitative: Numeric ≥ 0
YTD TARGET - Y3 Q2	End of Q2 YTD target activity progress for third year of WMP cycle.	If qualitative: Text If quantitative: Numeric ≥ 0
YTD TARGET - Y3 Q3	End of Q3 YTD target activity progress for third year of WMP cycle.	If qualitative: Text If quantitative: Numeric ≥ 0
YTD TARGET - Y3 Q4	End of Q4 YTD target activity progress for third year of WMP cycle.	If qualitative: 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 Section 4.3.4 of these Guidelines.	Integer
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: https://ia.cpuc.ca.gov/firemap	Restricted to values indicated in Field Description
LINE TYPE	• Distribution • Transmission	Restricted to values indicated in Field Description
DATE OPENED	Date the work order was opened	Date
DUE DATE	Due date of the original work order	Date
GO 95 RULE 18 PRIORITY	Priority level of the original 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
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 REINSPECTED OR MODIFIED	Date the work order was reinspected or modified, if applicable	Date

DUE DATE AFTER REINSPECTED OR MODIFIED	Due date of the work order after it was reinspected or modified, if applicable	Date
GO 95 RULE 18 PRIORITY AFTER REINSPECTED OR MODIFIED	Priority level of the work order after it was reinspected or modified, as outlined in General Order 95 (G0 95) rule 18, if applicable. https://ia.cpuc.ca.gov/gos/go95/go_95_rule_18.htm	Text
REASON FOR REINSPECTION	Reason for reinspection, if applicable	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 definition and calculation requirements	Numeric

OUTAGE PROGRAM RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
WILDFIRE LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
IGNITION LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
EQUIPMENT CAUSED LIKELIHOOD OF IGNITION	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
CONTACT FROM VEGETATION LIKELIHOOD OF IGNITION	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
CONTACT FROM OBJECT LIKELIHOOD OF IGNITION	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
BURN LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
WILDFIRE CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
WILDFIRE HAZARD INTENSITY	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
WILDFIRE EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS VULNERABILITY	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS VULNERABILITY	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
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
(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.

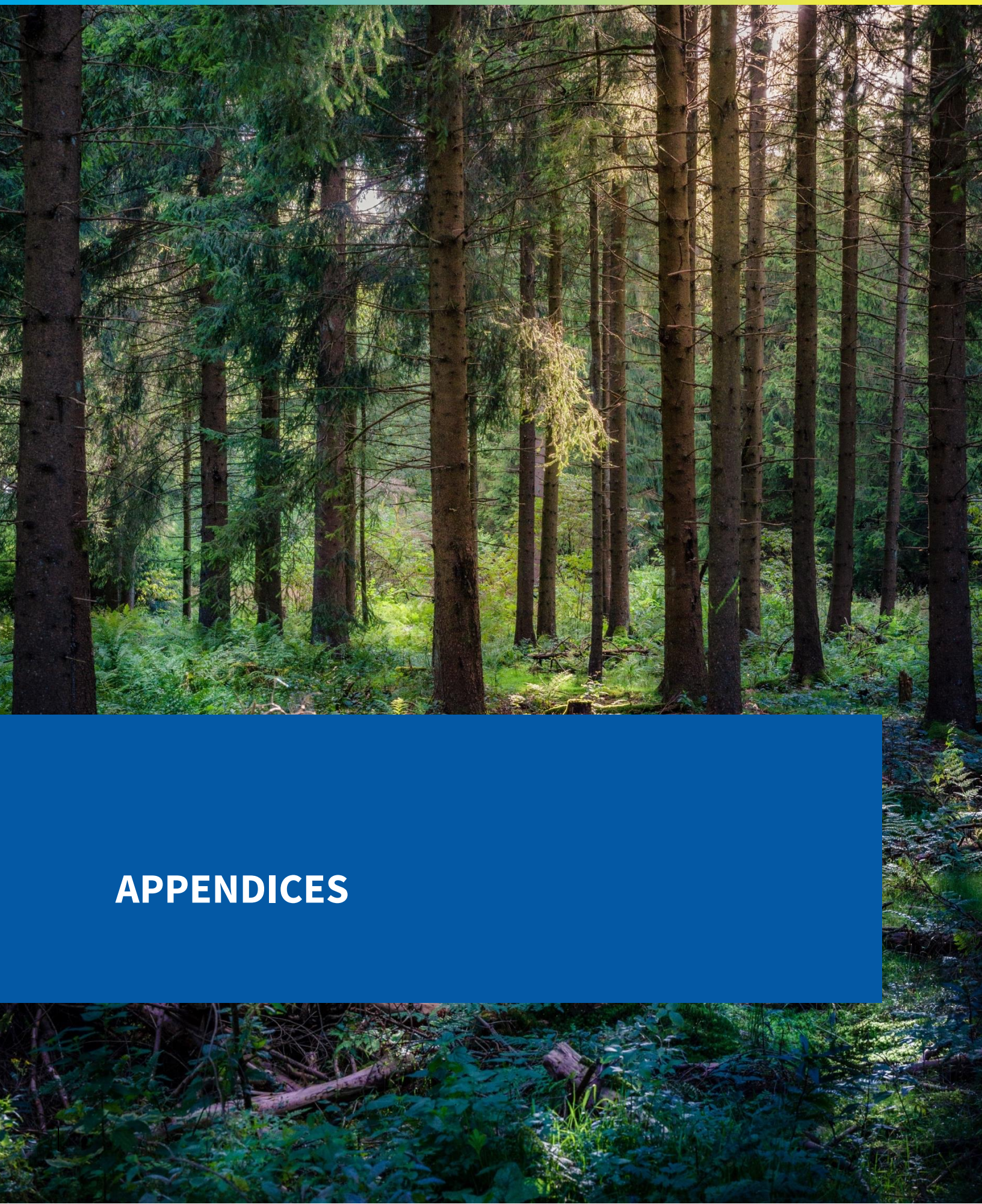
All fields are required unless otherwise specified in the below schema table.

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

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 / SPAN ID	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Text

RISK GRANULARITY	• Circuit • Segment • Span	Restricted to values indicated in Field Description
LINE TYPE	• Distribution • Transmission	Restricted to values indicated in Field Description
CIRCUIT / SEGMENT / SPAN LENGTH (MI)	Circuit, segment, or span length in miles.	Numeric ≥ 0
INCLUSION REASON	• >1% contribution • Top 5% highest risk • Both >1% and Top 5%	Restricted to values indicated in Field Description
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: https://ia.cpuc.ca.gov/firemap	Restricted to values indicated in Field Description
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 definition and calculation requirements	Numeric
OUTAGE PROGRAM RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
WILDFIRE LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
IGNITION LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
EQUIPMENT CAUSED LIKELIHOOD OF IGNITION	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
CONTACT FROM VEGETATION LIKELIHOOD OF IGNITION	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
CONTACT FROM OBJECT LIKELIHOOD OF IGNITION	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
BURN LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
WILDFIRE CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric

WILDFIRE HAZARD INTENSITY	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
WILDFIRE EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PSPS VULNERABILITY	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS RISK	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS LIKELIHOOD	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS CONSEQUENCE	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS EXPOSURE POTENTIAL	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
PEDS VULNERABILITY	See Chapter III, Section 5.2 of the WMP Guidelines for definition and calculation requirements	Numeric
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
(Utility to add additional risk component fields as necessary)	WMP Guidelines Chapter III, Section 5.5.2 for definition and calculation requirements.	Numeric



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
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 fire potential index (as defined by the electrical corporation in its WMP) overhead circuit mile days: Sum of overhead circuit miles of utility grid subject to high fire potential index (FPI, as defined by the utility in its WMP) each day within a given time period, calculated as the number of overhead circuit miles that are under a high FPI multiplied by the number of days those miles are under said FPI. For example, if 100 overhead circuit miles are under a high FPI for 1 day, and 10 of those miles are under a high FPI for an additional day, then the total FPI OH circuit mile days would be 110.

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.

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 overhead circuit mile days: Sum of overhead circuit miles of utility grid subject to concurrent RFW and HWW each day within a given time period, calculated as the number of overhead circuit miles that are under an RFW and HWW multiplied by the number of days those circuit miles are under said RFW and HWW. For example, if 100 overhead circuit miles are under both RFW and HWW for 1 day, and 10 of those miles are under both RFW and HWW for an additional day, then the total RFW and HWW OH circuit mile days would be 110.

High Wind Warning overhead circuit mile days: Sum of overhead circuit miles of utility grid subject to a high wind warning (HWW, as defined by the National Weather Service) each day within a given time period, calculated as the number of overhead circuit miles under a HWW multiplied by the number of days those miles are under said HWW. For example, if 100 overhead circuit miles are under an HWW for 1 day, and 10 of those miles were under HWW for an additional day, then the total HWW OH circuit mile days would be 110.

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.

Red flag warning overhead circuit mile days: Sum of overhead circuit miles of utility grid subject to red flag warning (RFW) each day within a given time period, calculated as the number of overhead circuit miles that are under the RFW multiplied by the number of days those circuit miles are under said RFW. For example, if 100 overhead circuit miles are under RFW for 1 day, and 10 of those miles are under RFW for an additional day, then the total RFW OH circuit mile days would be 110.

Reportable Ignition: An event that meets the criteria for a reportable event subject to fire-related 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: California Open Data Portal)

Appendix C. WMP Initiative Classification

This Appendix provides WMP category, initiative, and activity names and hierarchical structure, as defined in Appendix A of the WMP Guidelines, for the purpose of populating data submission fields specifying WMP category, initiative, and activity classifications.

WMP Initiatives by Category

Category	Section #	Initiative
Risk Methodology and Assessment	5	Risk Methodology and Assessment
Wildfire Mitigation Strategy	6	Wildfire Mitigation Strategy Development
Grid Design, Operations, and Maintenance	8.2	Grid Design and System Hardening
Grid Design, Operations, and Maintenance	8.3	Asset Inspections
Grid Design, Operations, and Maintenance	8.4	Equipment Maintenance and Repair
Grid Design, Operations, and Maintenance	8.5	Quality Assurance and Quality Control (Asset Management)
Grid Design, Operations, and Maintenance	8.6	Work Orders (Asset Management)
Grid Design, Operations, and Maintenance	8.7	Grid Operations and Procedures
Grid Design, Operations, and Maintenance	8.8	Workforce Planning (Asset Management)
Vegetation Management and Inspections	9.2	Vegetation Management Inspections
Vegetation Management and Inspections	9.3	Pruning and Removal
Vegetation Management and Inspections	9.4	Pole Clearing
Vegetation Management and Inspections	9.5	Wood and Slash Management
Vegetation Management and Inspections	9.6	Defensible Space
Vegetation Management and Inspections	9.7	Integrated Vegetation Management

Category	Section #	Initiative
Vegetation Management and Inspections	9.8	Partnerships
Vegetation Management and Inspections	9.9	Activities Based on Weather Conditions
Vegetation Management and Inspections	9.10	Post-Fire Service Restoration
Vegetation Management and Inspections	9.11	Quality Assurance and Quality Control (Vegetation Management)
Vegetation Management and Inspections	9.12	Work Orders (Vegetation Management)
Vegetation Management and Inspections	9.13	Workforce Planning (Vegetation Management)
Situational Awareness and Forecasting	10.2	Environmental Monitoring Systems
Situational Awareness and Forecasting	10.3	Grid Monitoring Systems
Situational Awareness and Forecasting	10.4	Ignition Detection Systems
Situational Awareness and Forecasting	10.5	Weather Forecasting
Situational Awareness and Forecasting	10.6	Fire Potential Index
Emergency Preparedness, Collaboration and Public Awareness	11.2	Emergency Preparedness and Recovery Plan
Emergency Preparedness, Collaboration and Public Awareness	11.3	External Collaboration and Coordination
Emergency Preparedness, Collaboration and Public Awareness	11.4	Public Communication, Outreach, and Education Awareness
Emergency Preparedness, Collaboration and Public Awareness	11.5	Customer Support in Wildfire and PSPS Emergencies
Enterprise Systems	12	Enterprise Systems Development

WMP Activities by Initiative

For WMP mitigation activities defined by Energy Safety, Appendix A of the WMP Guidelines defines the naming and hierarchical structure provided below.

Initiative	Section #	Activity
Grid Design and System Hardening	8.2.1	Covered conductor installation
Grid Design and System Hardening	8.2.2	Undergrounding of electric lines and/or equipment
Grid Design and System Hardening	8.2.3	Distribution pole replacements and reinforcements
Grid Design and System Hardening	8.2.4	Transmission pole/tower replacements and reinforcements
Grid Design and System Hardening	8.2.5	Traditional overhead hardening
Grid Design and System Hardening	8.2.6	Emerging grid hardening technology installations and pilots
Grid Design and System Hardening	8.2.7	Microgrids
Grid Design and System Hardening	8.2.8	Installation of system automation equipment
Grid Design and System Hardening	8.2.9	Line removals (in HFTD)
Grid Design and System Hardening	8.2.10	Other grid topology improvements to minimize risk of ignitions
Grid Design and System Hardening	8.2.11	Other grid topology improvements to mitigate or reduce PSPS events
Grid Design and System Hardening	8.2.12	Other technologies and systems not listed above
Grid Operations and Procedures	8.7.1	Equipment Settings to Reduce Wildfire Risk
Grid Operations and Procedures	8.7.2	Grid Response Procedures and Notifications
Grid Operations and Procedures	8.7.3	Personnel Work Procedures and Training in Conditions of Elevated Fire Risk

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/

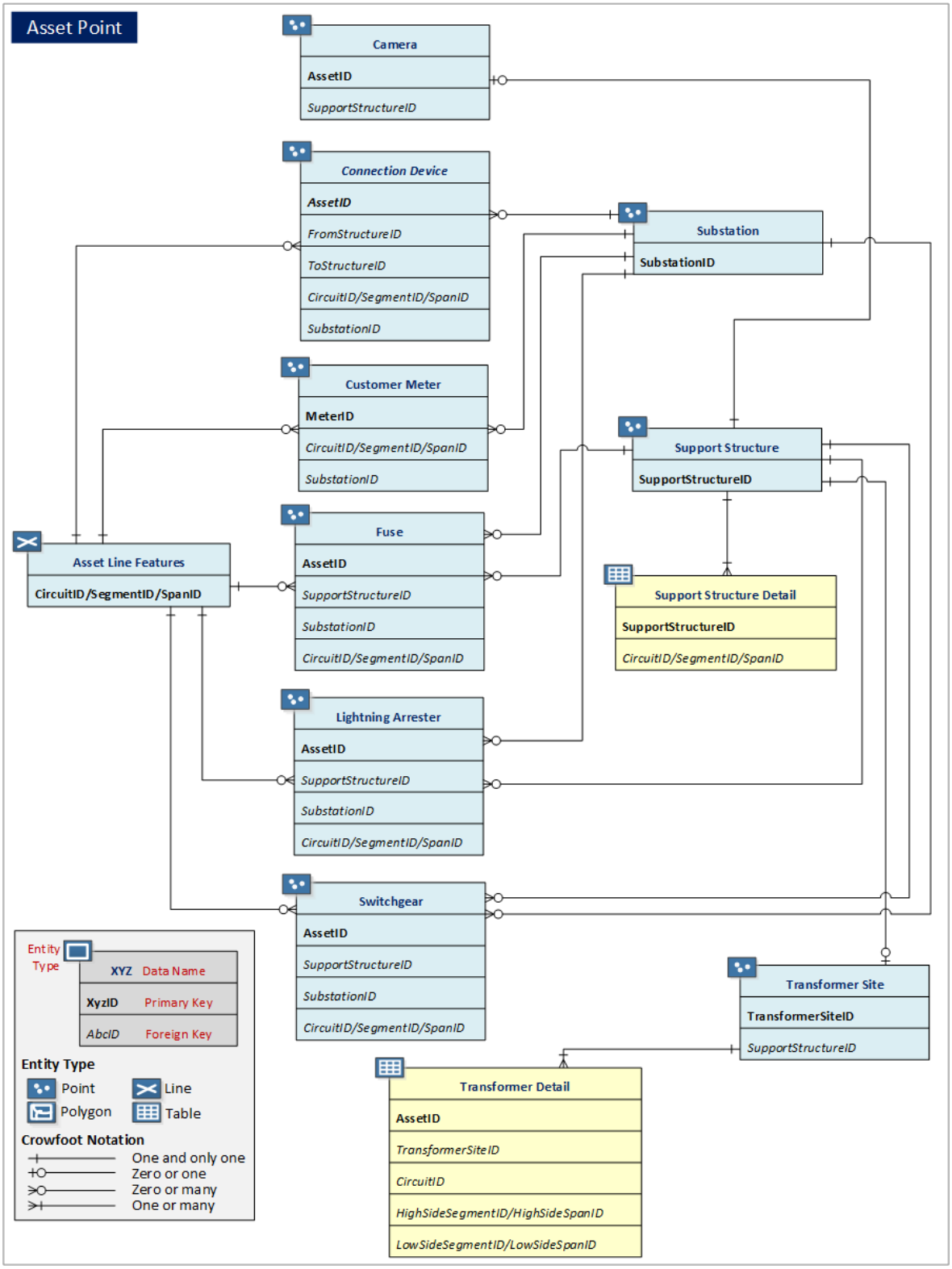
GIS Data Submissions

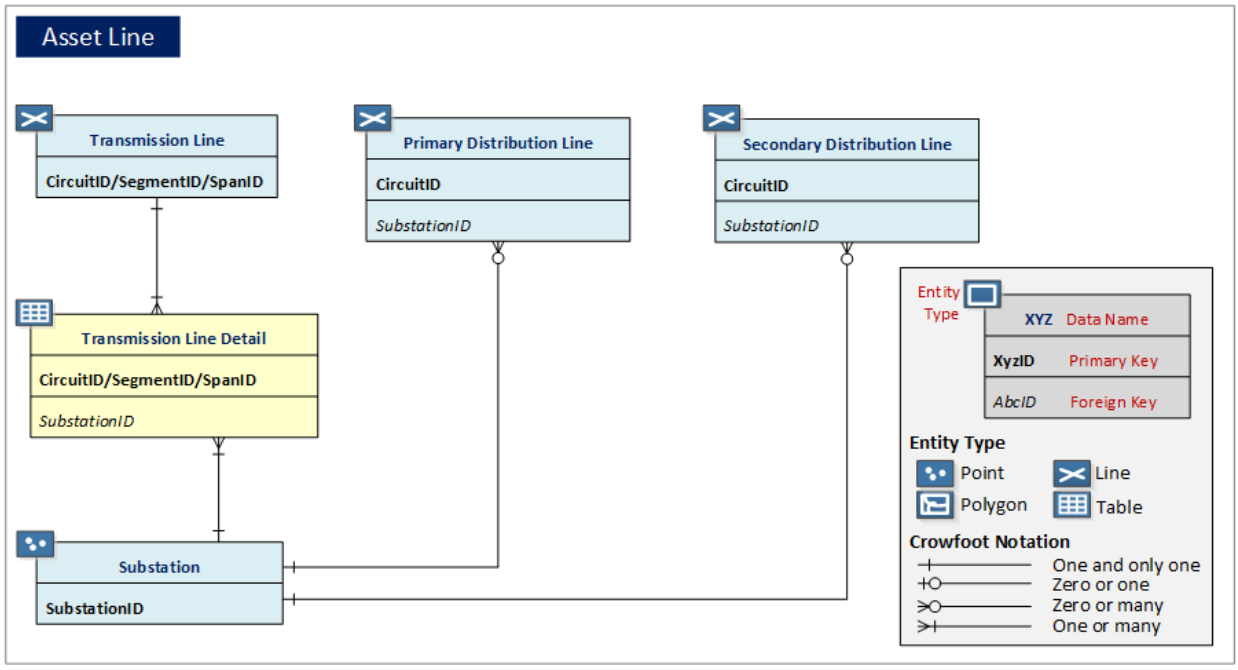
- Template Geodatabase (GDB)

Tabular Wildfire Mitigation Data Submissions

- Energy Safety Wildfire Mitigation Data Template Workbooks, as detailed in Section 4.3.1, above.

Appendix E. Spatial Data Entity Relationship Diagrams

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Primary Distribution Line
CircuitID
SubstationID
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SubstationID
Substation
SubstationID
Entity Type
XYZ Data Name
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AbcID Foreign Key
Entity Type
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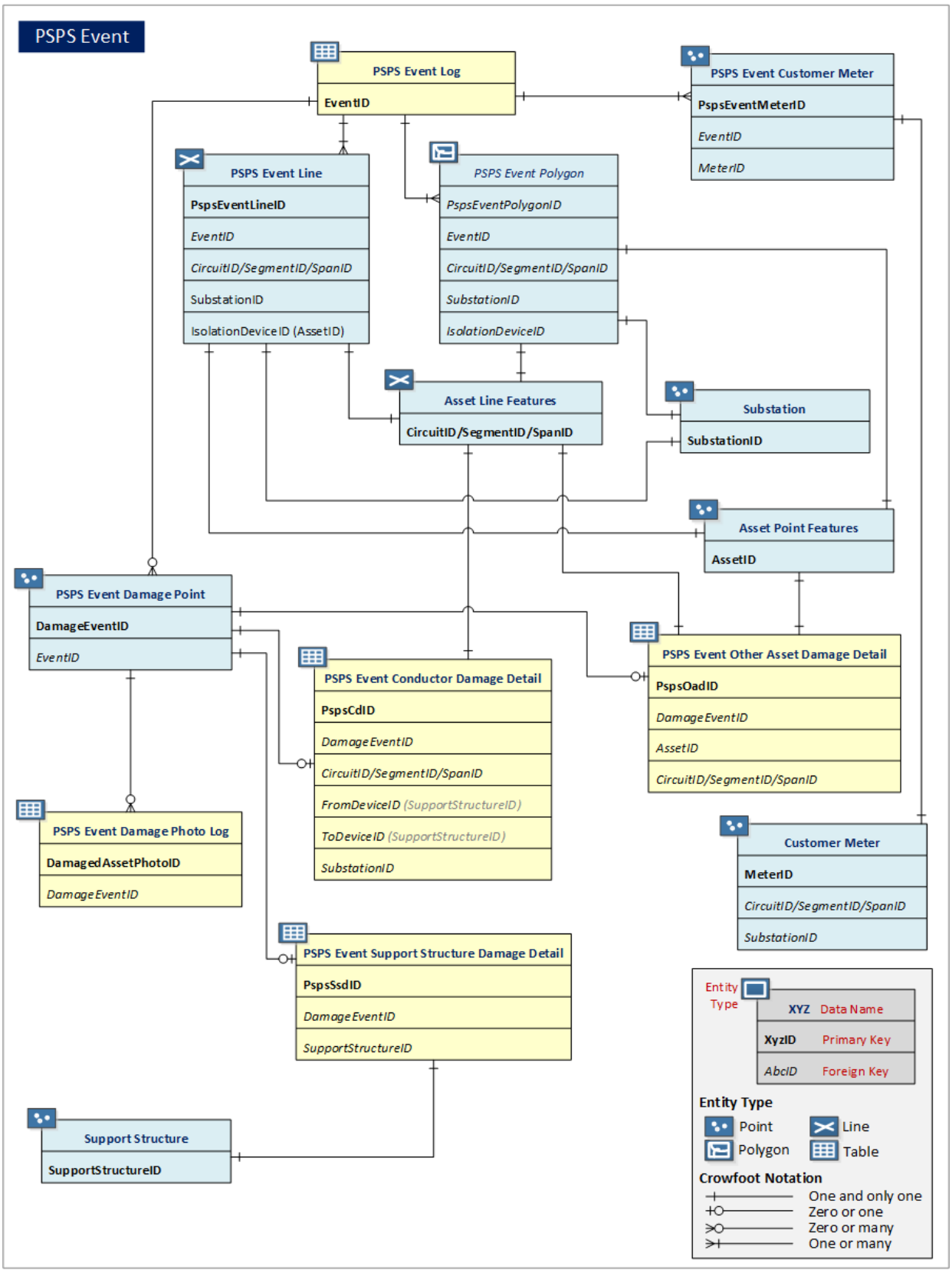
Line
Polygon
Table
Crowfoot Notation
One and only one
Zero or one
Zero or many
One or many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EventID
PSPS Event Customer Meter
PspsEventMeterID
EventID
MeterID
PSPS Event Line
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EventID
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SubstationID
IsolationDeviceID (AssetID)
PSPS Event Polygon
PspsEventPolygonID
EventID
CircuitID/SegmentID/SpanID
SubstationID
IsolationDeviceID
Asset Line Features
CircuitID/SegmentID/SpanID
Substation
SubstationID
Asset Point Features
AssetID
PSPS Event Damage Point
DamageEventID
EventID
PSPS Event Conductor Damage Detail
PspsCdID
DamageEventID
CircuitID/SegmentID/SpanID
FromDeviceID (SupportStructureID)
ToDeviceID (SupportStructureID)
SubstationID
PSPS Event Other Asset Damage Detail
PspsOadID
DamageEventID
AssetID
CircuitID/SegmentID/SpanID
PSPS Event Damage Photo Log
DamagedAssetPhotoID
DamageEventID
Customer Meter
MeterID
CircuitID/SegmentID/SpanID
SubstationID
PSPS Event Support Structure Damage Detail
PspsSsdID
DamageEventID
SupportStructureID
Support Structure
SupportStructureID
Entity Type
XYZ Data Name
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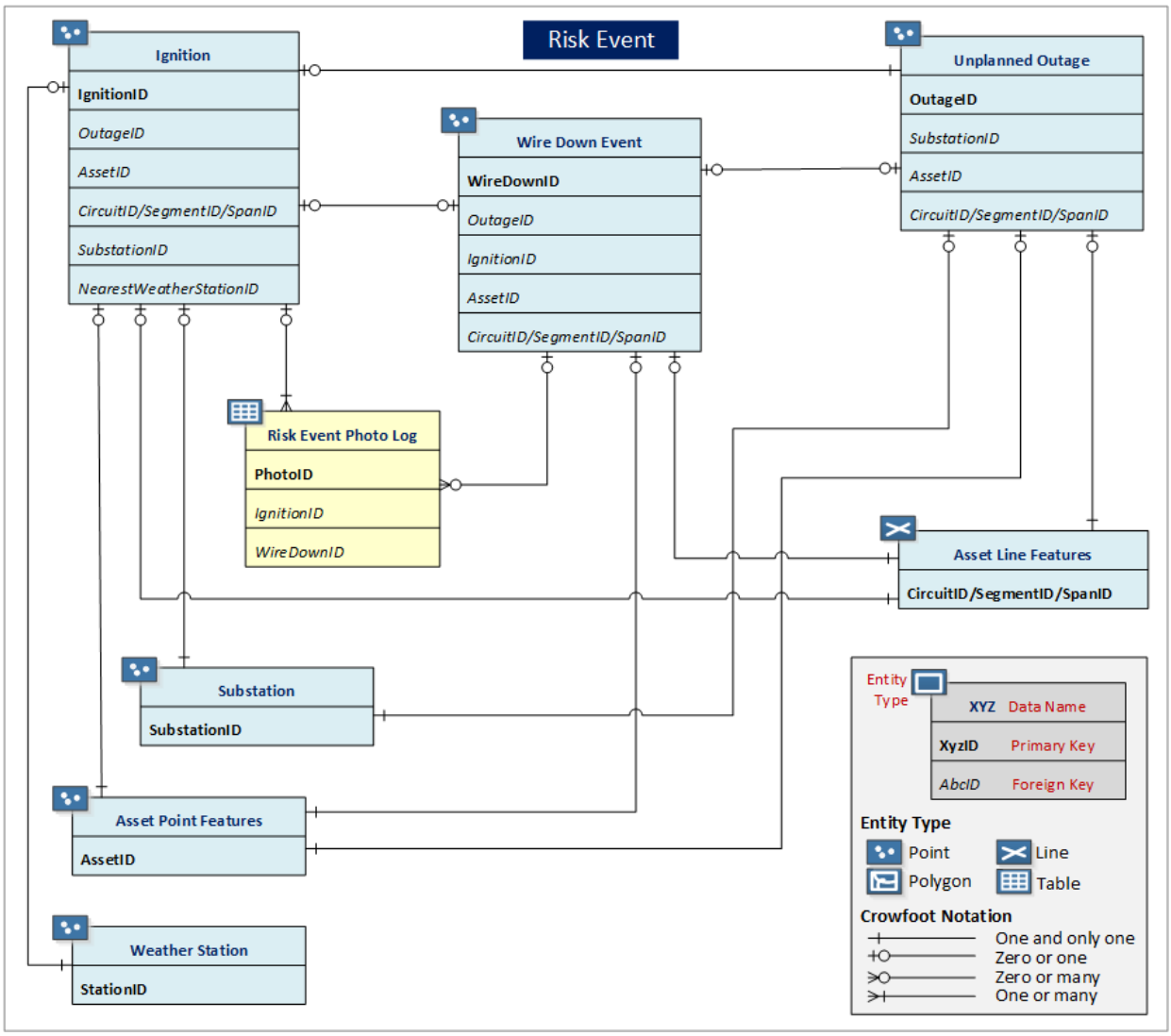
Entity Type
Point
Line
Polygon
Table
Crowfoot Notation
One and only one
Zero or one
Zero or many
One or many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Wire Down Event
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SubstationID
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Entity Type
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Entity Type
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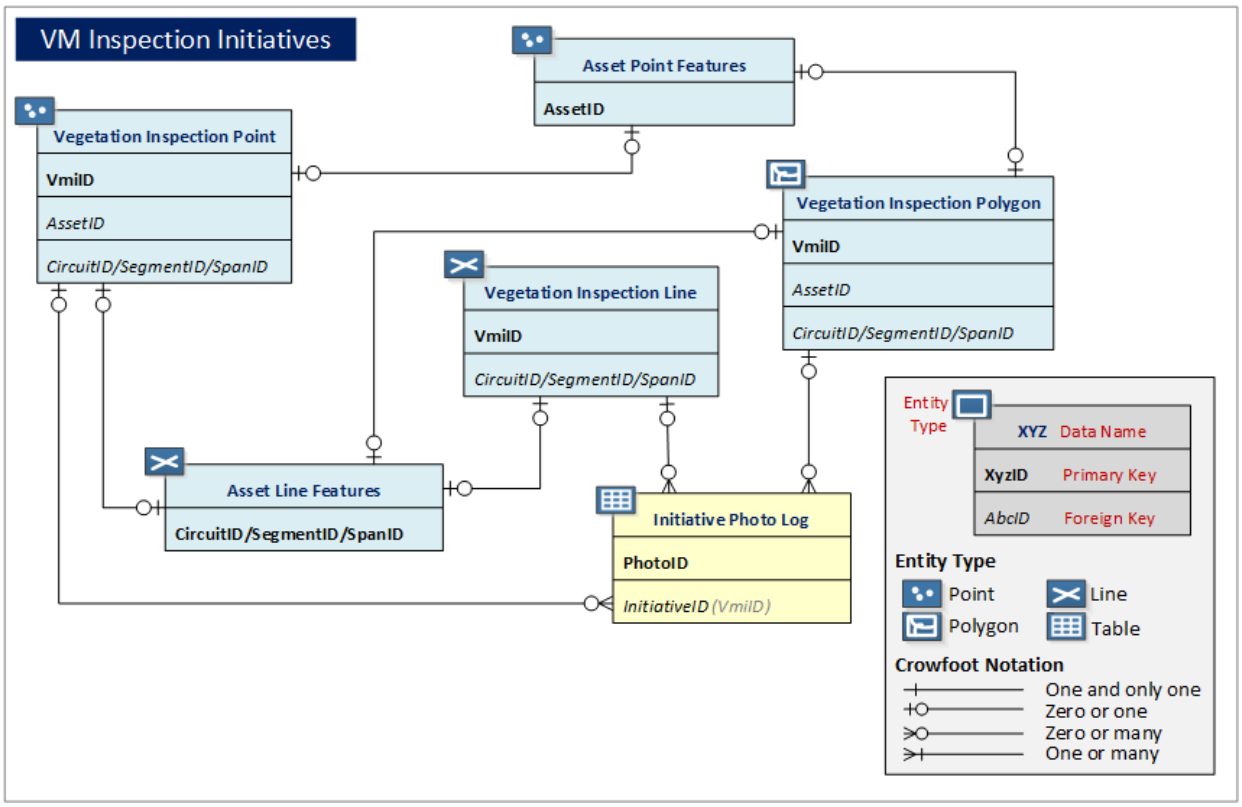
Line
Polygon
Table
Crowfoot Notation
One and only one
Zero or one
Zero or many
One or many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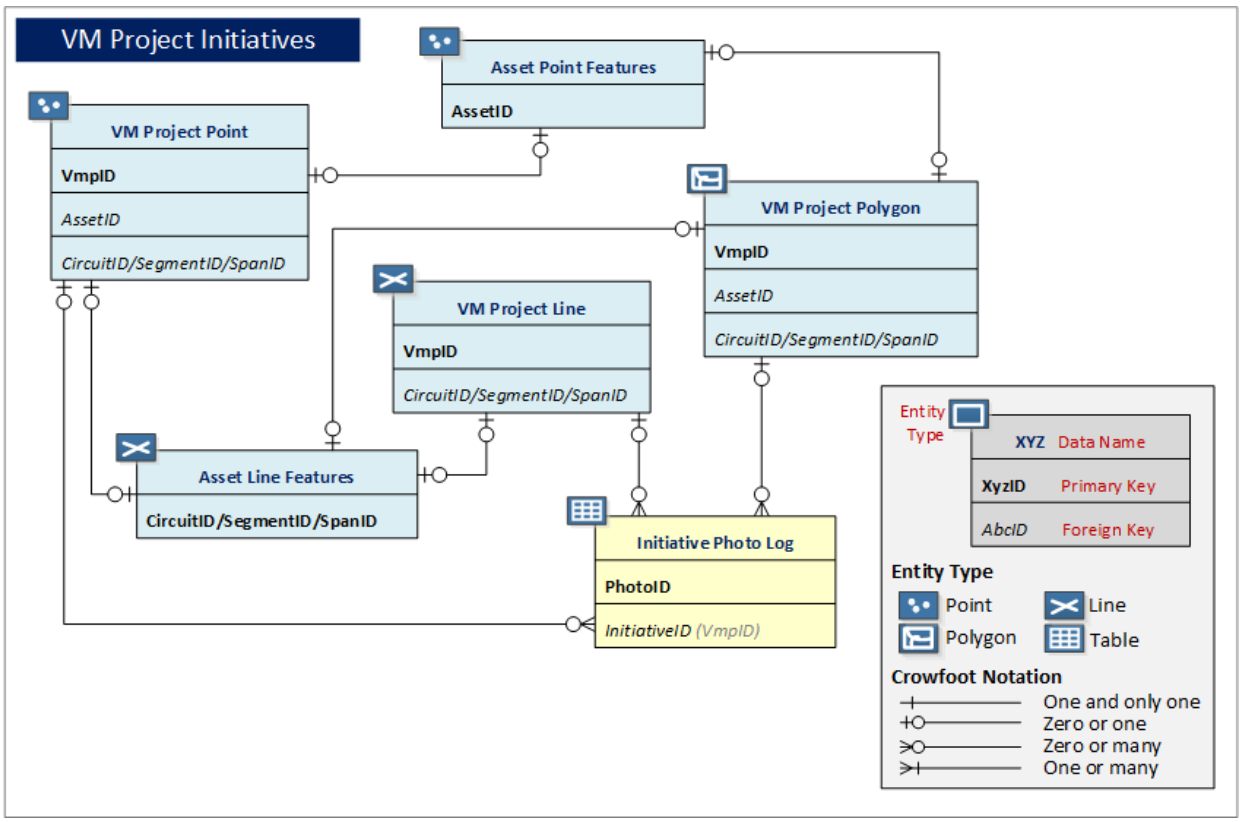
AssetID
CircuitID/SegmentID/SpanID
Vegetation Inspection Polygon
VmiID
AssetID
CircuitID/SegmentID/SpanID
Vegetation Inspection Line
VmiID
CircuitID/SegmentID/SpanID
Asset Line Features
CircuitID/SegmentID/SpanID
Initiative Photo Log
PhotoID
InitiativeID (VmiID)
Entity Type
XYZ Data Name
XyzID Primary Key
AbcID Foreign Key
Entity Type
Point
Line
Polygon
Table
Crowfoot Notation
One and only one
Zero or one
Zero or many
One or many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Asset Point Features
AssetID
VM Project Point
VmpID
AssetID
CircuitID/SegmentID/SpanID
VM Project Polygon
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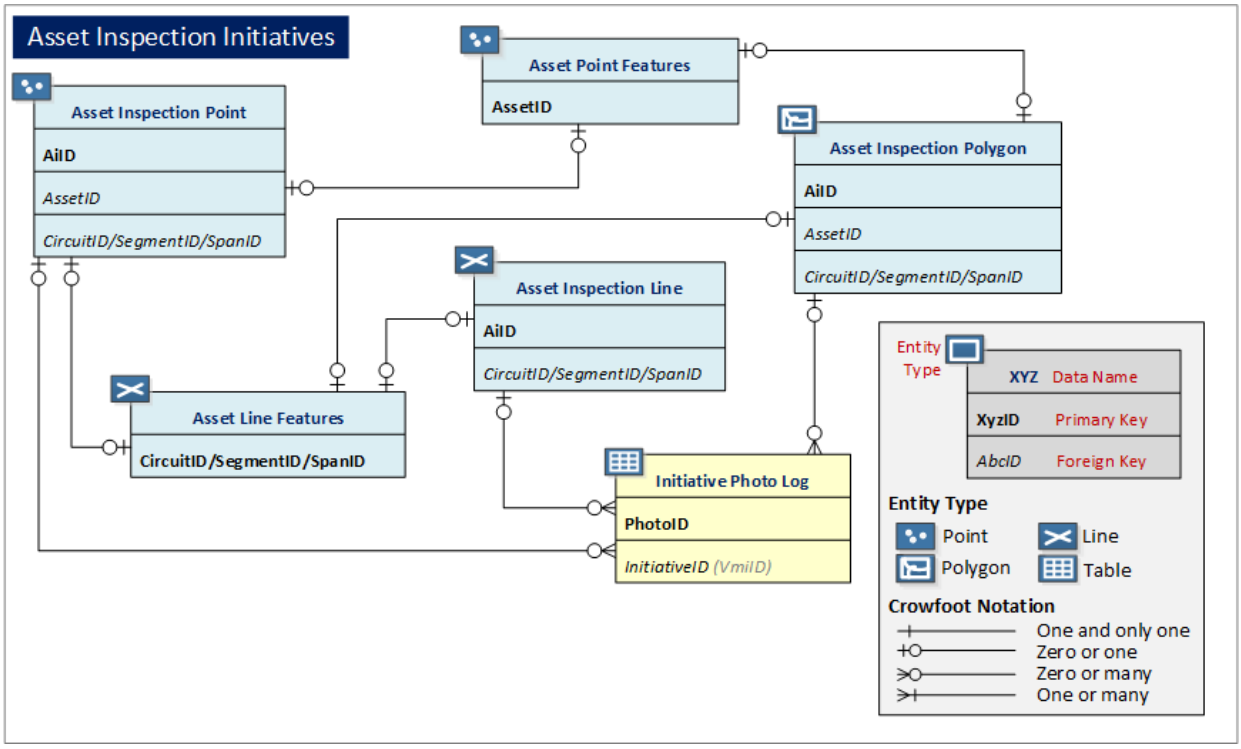
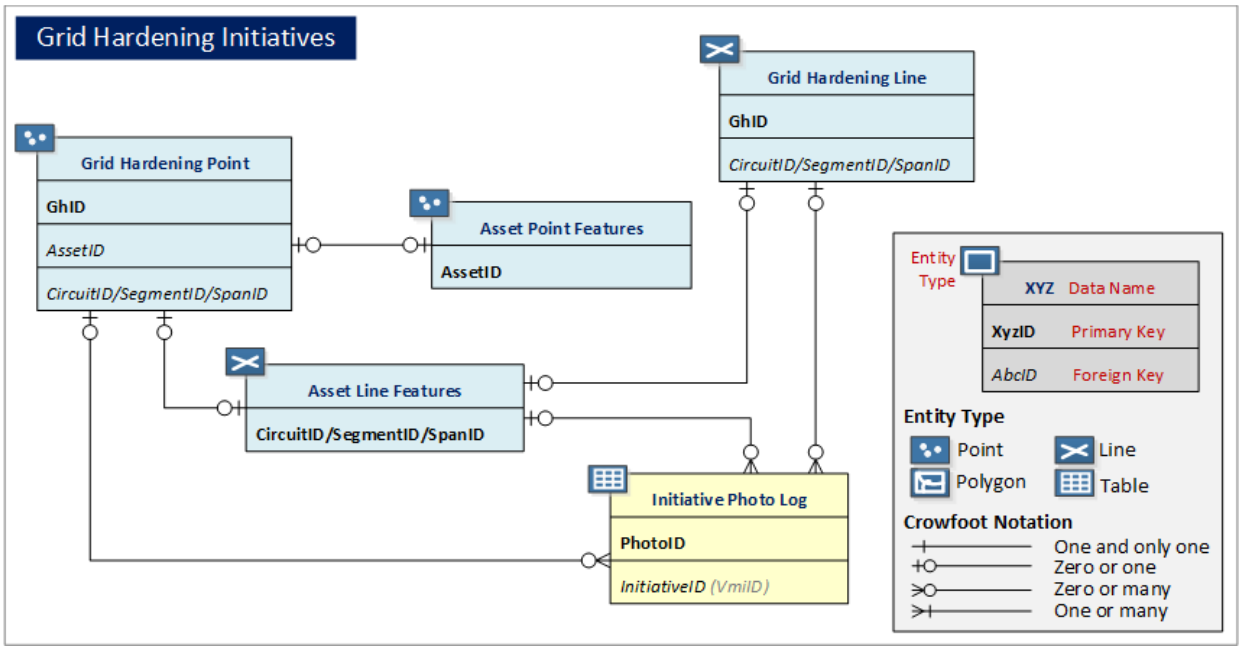
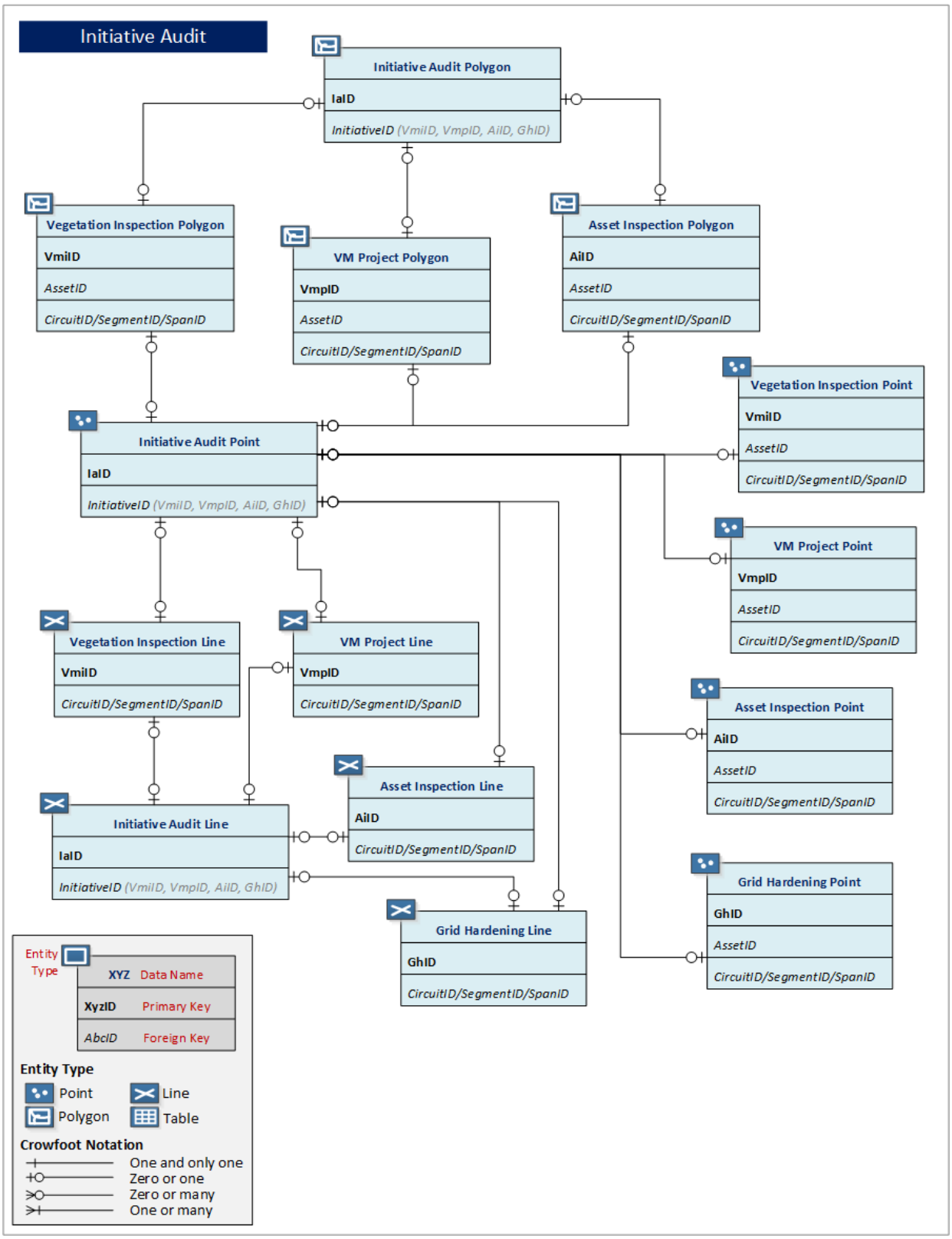
VM Project Line
VmpID
CircuitID/SegmentID/SpanID
Asset Line Features
CircuitID/SegmentID/SpanID
Initiative Photo Log
PhotoID
InitiativeID (VmpID)
Entity Type
XYZ Data Name
XyzID Primary Key
AbcID Foreign Key
Entity Type
Point
Line
Polygon
Table
Crowfoot Notation
One and only one
Zero or one
Zero or many
One or many


Asset Inspection Initiatives
Asset Point Features
AssetID
Asset Inspection Point
AiID
AssetID
CircuitID/SegmentID/SpanID
Asset Inspection Polygon
AiID
AssetID
CircuitID/SegmentID/SpanID
Asset Inspection Line
AiID
CircuitID/SegmentID/SpanID
Asset Line Features
CircuitID/SegmentID/SpanID
Initiative Photo Log
PhotoID
InitiativeID (VmiID)
Entity Type
XYZ Data Name
XyzID Primary Key
AbcID Foreign Key
Entity Type
Point
Line
Polygon
Table
Crowfoot Notation
One and only one
Zero or one
Zero or many
One or many


Grid Hardening Initiatives
Grid Hardening Point
GhID
AssetID
CircuitID/SegmentID/SpanID
Asset Point Features
AssetID
Grid Hardening Line
GhID
CircuitID/SegmentID/SpanID
Asset Line Features
CircuitID/SegmentID/SpanID
Initiative Photo Log
PhotoID
InitiativeID (VmiID)
Entity Type
XYZ Data Name
XyzID Primary Key
AbcID Foreign Key
Entity Type
Point
Line
Polygon
Table
Crowfoot Notation
One and only one
Zero or one
Zero or many
One or many


Initiative Audit
Initiative Audit Polygon
IaID
InitiativeID (VmiID, VmpID, AiID, GhID)
Vegetation Inspection Polygon
VmiID
AssetID
CircuitID/SegmentID/SpanID
VM Project Polygon
VmpID
AssetID
CircuitID/SegmentID/SpanID
Asset Inspection Polygon
AiID
AssetID
CircuitID/SegmentID/SpanID
Vegetation Inspection Point
VmiID
AssetID
CircuitID/SegmentID/SpanID
Initiative Audit Point
IaID
InitiativeID (VmiID, VmpID, AiID, GhID)
VM Project Point
VmpID
AssetID
CircuitID/SegmentID/SpanID
Vegetation Inspection Line
VmiID
CircuitID/SegmentID/SpanID
VM Project Line
VmpID
CircuitID/SegmentID/SpanID
Asset Inspection Point
AiID
AssetID
CircuitID/SegmentID/SpanID
Asset Inspection Line
AiID
CircuitID/SegmentID/SpanID
Initiative Audit Line
IaID
InitiativeID (VmiID, VmpID, AiID, GhID)
Grid Hardening Point
GhID
AssetID
CircuitID/SegmentID/SpanID
Grid Hardening Line
GhID
CircuitID/SegmentID/SpanID
Entity Type
XYZ Data Name
XyzID Primary Key
AbcID Foreign Key
Entity Type
Point
Line
Polygon
Table
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Zero or many
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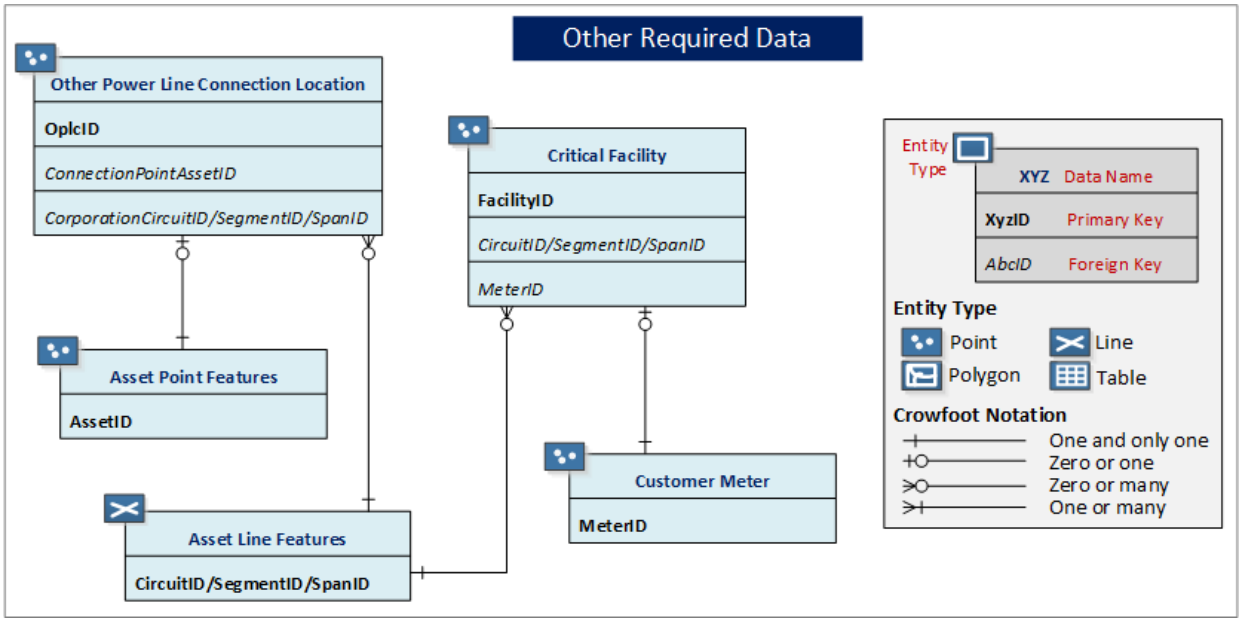
Other Required Data
Other Power Line Connection Location
OplcID
ConnectionPointAssetID
CorporationCircuitID/SegmentID/SpanID
Asset Point Features
AssetID
Asset Line Features
CircuitID/SegmentID/SpanID
Critical Facility
FacilityID
CircuitID/SegmentID/SpanID
MeterID
Customer Meter
MeterID
Entity Type
XYZ Data Name
XyzID Primary Key
AbcID Foreign Key
Entity Type
Point
Line
Polygon
Table
Crowfoot Notation
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Zero or one
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