OFFICE OF ENERGY INFRASTRUCTURE SAFETY

DATA GUIDELINES

Version 3.0

DECEMBER 14, 2022

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1. INTRODUCTION

In this document, the Office of Energy Infrastructure Safety (Energy Safety) presents the Data Guidelines that set forth the required standards, schemas, and guidance on data preparation, submittal, and schedule for submission of Quarterly Data Report (QDR), Geographic Information Systems (GIS) data, and tabular Wildfire Mitigation Data to Energy Safety in support of its oversight and enforcement of electrical corporations' compliance with wildfire safety[1]. Standardized data submissions from electrical corporations will provide Energy Safety with important asset and risk data that will be used to monitor and evaluate utility safety, wildfire risk reduction, and compliance activities.

Consistent, high quality, standardized data are fundamental to Energy Safety's ability to effectively evaluate and monitor the planning and implementation of electrical corporations' wildfire safety and Wildfire Mitigation Plans (WMPs). As such, electrical corporations must bring their data submissions into full compliance with Energy Safety's requirements. In addition, Energy Safety expects electrical corporations to aggressively enhance and mature their overall data management capabilities as those are foundational to their ability to understand risk, implement wildfire mitigation initiatives ("initiatives")[2], and conduct safe operations.

The data standards described in this document are effective as of the reporting periods indicated in the table below and shall apply to the following electrical corporations:

- Bear Valley Electric Service
- Horizon West Transmission
- Liberty Utilities
- LS Power Grid California
- Pacific Gas and Electric
- PacifiCorp
- San Diego Gas and Electric
- Southern California Edison
- Trans Bay Cable[3]

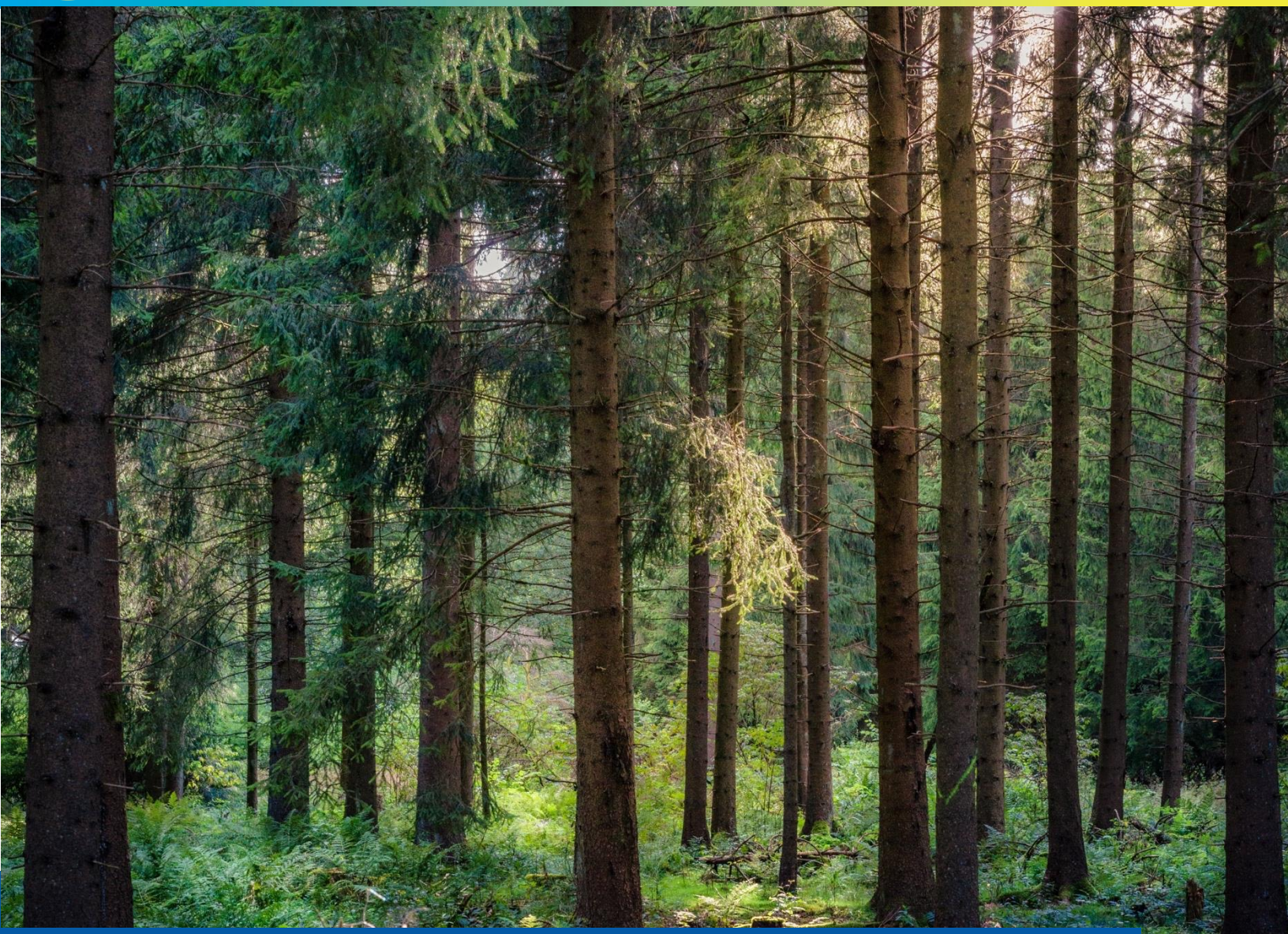
Data Standard	Reporting Period Effective
Wildfire Mitigation Data (Section 4)	Q4 2022
Geographic Information System Data (Section 3)	Q1 2023

Energy Safety expects to routinely review and refine its data requirements in executing its mission of reducing risk of catastrophic wildfire ignitions from electrical facilities and equipment through a data-driven approach. Therefore, these Data Guidelines will continue to evolve as data quality and capabilities grow.

[1] As described in Public Utilities Code section 326 and pursuant to Chapter 6 (commencing with Section 8385) of Division 4.1.

[2] Activities that were described as "initiatives" in previous WMP Guidelines are described in the current (2023-2025) WMP Guidelines as "mitigations." These Data Guidelines and associated data schemas retain the use of "initiatives" for clarity and consistency. All use of the word "initiatives" in this document refers to activities now described in Section 8, "Wildfire Mitigations," of the 2023-2025 WMP Technical Guidelines.

[3] Not all electrical corporations will be subject to the same GIS data reporting requirements. Energy Safety will separately issue guidance to LS Power Grid California, Horizon West Transmission, and Trans Bay Cable detailing the extent of their GIS data submission requirements.



2. SUBMISSION STANDARDS

2.1 Submission Schedule

GIS and tabular wildfire mitigation data are submitted to Energy Safety on a quarterly basis. Following the completion of a calendar quarter, electrical corporations will be provided a calendar month to submit the required data on the first of the following month.[4] For example, submissions for first quarter data will be due annually on May 1. The table below lists the data submission deadline for each quarter.

Table 1. Data Submission Schedule

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

The GIS data contains some feature classes that may not need to be submitted as frequently as others. Specifically, electrical corporations are not required to submit spatial data that have not changed from one quarter to the next quarter. 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 to the reporting quarter,” in the status report.

[4] If the filing due date falls on a weekend or a holiday, then electrical corporations will be required to submit the data on the first business day after the due date.

2.2 Submission Schema Version

Energy Safety may amend the data schema pursuant to Government Code section 15475.6. Electrical corporations' regular data submissions 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.

2.3 Submission Instructions, Locations, and File Naming

Electrical corporations subject to these Guidelines submit required data to the locations and according to the file naming conventions specified below. Dates included in a file name must reference the date of submission.

Table 2. 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[5] YYYY-QDR	[Electrical Corporation Abbreviation]_YYYY_Q#_SpatialDataStatusReport.xlsx
Confidentiality Declaration	E-Filing Docket YYYY-QDR	[Electrical Corporation Abbreviation] _YYYY_Q#_ConfidentialityDeclaration.[File Ext]
Tabular Wildfire Mitigation Data Tables 1 - 15	E-Filing Docket [YYYY-QDR]	[Electrical Corporation Abbreviation]_YYYY_Q#_Tables1-15_R#.xlsx

2.3.1 GIS Data Submission

2.3.1.1 Geodatabase (GDB)

Prior to submission, electrical corporations must scan their GDBs for viruses and compress GDBs into a zipped folder. Do not nest additional unnecessary folders within the zipped folder. Electrical corporations must submit zipped GDBs to Energy Safety's SharePoint secure file transfer portal. Each electrical corporation has been designated a secure folder on Energy

[5] All related E-Filing dockets can be found under the E-Filing case "Electrical: Data"

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. Electrical corporations must email notice that their data are uploaded to data@energysafety.ca.gov.

2.3.1.2 Photos Submitted with Spatial Data

If an electrical corporation has photos to submit along with spatial data, it must compile all photos into zipped folders. The electrical corporation may use as many folders as is practical for upload based on file sizes[6]. If an electrical corporation is submitting a large number of photos, it is preferred that the photos be separated by category, and if needed, by subcategory. If practical, an electrical corporation may submit all photos in a single folder. Folders may optionally include subfolders for file organization, e.g., to separate initiative photos from risk event photos. 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 guidance.

2.3.1.3 Spatial Data Status Report

Every quarter, electrical corporations must submit a status report prepared using the current version of the template. The template is available on Energy Safety's website and is an excel workbook titled "OEIS QDR Spatial Data Status Report – v3". The status report is a high-level overview of the contents of the geodatabase being submitted and offers a standardized way for electrical corporations to document what features in the template geodatabase were not used and why (see section 3.10 for more information). Electrical corporations 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

Electrical corporations may choose to submit additional supporting documentation such as explanations of abbreviations or other field values in geodatabases that require explanation where such information would be difficult or impractical to include in metadata. Supporting documentation must be submitted through the E-filing system.

[6] Energy safety's SharePoint site should allow uploads as large as 250GB per file, but from a practical standpoint, smaller sizes are recommended. There is no restriction on file size put forth in these Guidelines, but approximately 10GB is the suggested upper limit on file size.

2.4 Revisions to Previously Submitted Data

Revisions to previously submitted data must be provided to Energy Safety at the next quarterly submission date.

Except as described in Section 2.4.1 below, any time a data submission includes corrections or 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
  - Description
  - Explanation for each revision
  - Related change order request date (if applicable)
- GIS Data only
  - Related feature or table name
  - Record ID (This only applies if the change is a revision or deletion of a previously submitted record, as opposed to a new record that was mistakenly omitted from a prior data submission.)
- Wildfire Mitigation Data Tables only
  - 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, the resubmission shall not be considered a revision.

2.4.1 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.

2.4.2 Change Order Process

Section 2.4 does not exempt electrical corporations from 2023-2025 Wildfire Mitigation Plan Process & Evaluation Guidelines[7] change order request requirements.

[7] 2023-2025 WMP Process and Evaluation Guidelines, adopted 12/06/2022

2.5 Timeframe of Data

Quarterly 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, event data submitted on May 1 must include all risk events that occurred within the first quarter, including all known event details. 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.

2.5.1 GIS Data Timeframe

Electrical corporations do not need to include spatial features where the data has not changed since the prior reporting period in its current spatial data submission.

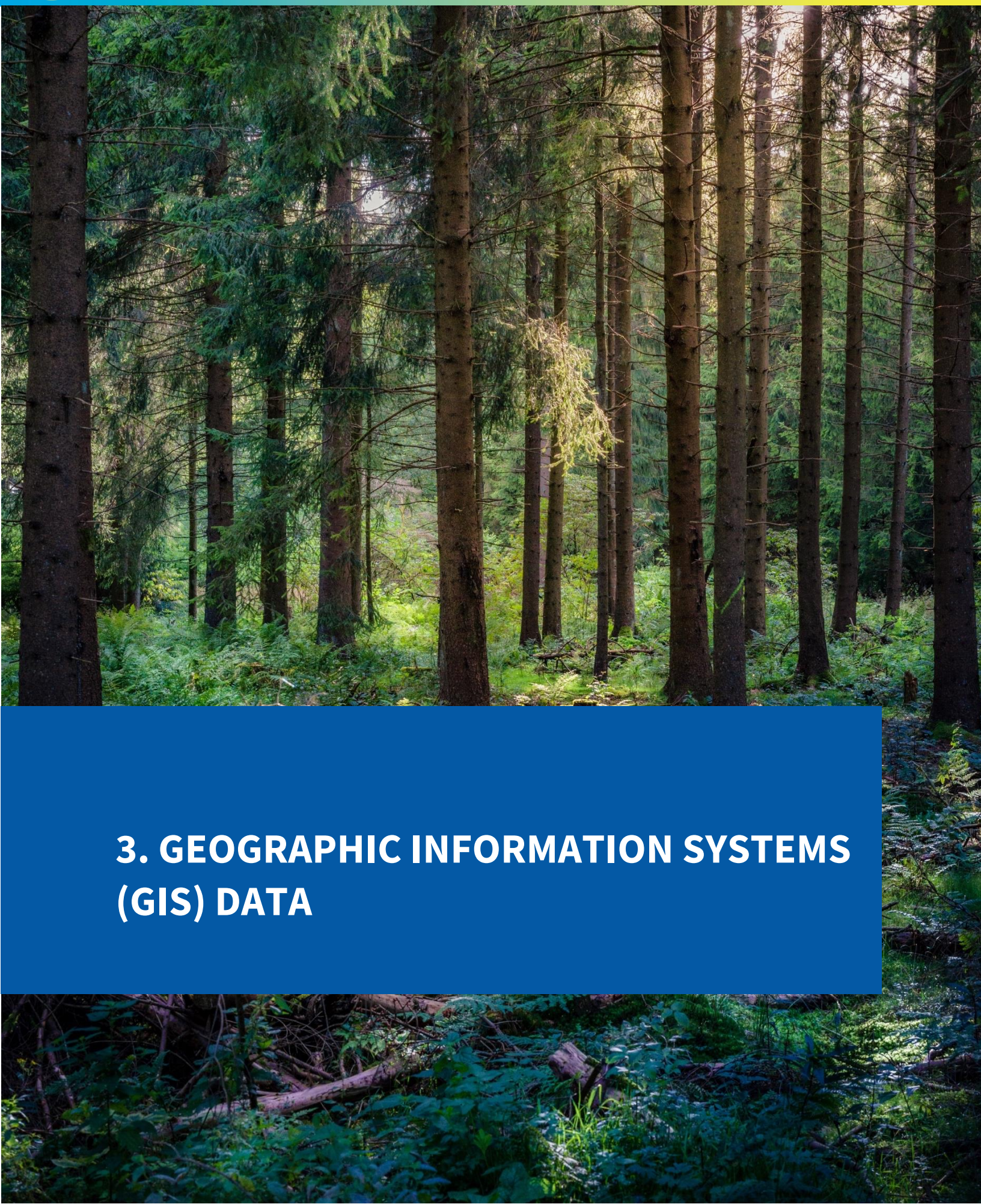
For spatial data sets that include forward looking records, the planning horizon must include the quarter following the reporting period.

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 Wildfire Mitigation Data Tables Timeframe

For the tabular wildfire mitigation data that includes forward looking records, the planning horizon must be as indicated in the Wildfire Mitigation Data Schema guidance under section 4.2 of these Guidelines.



3. GEOGRAPHIC INFORMATION SYSTEMS (GIS) DATA

3.1 Overview

The purpose of the Geographic Information Systems (GIS) data is for both the electrical corporations and Energy Safety to have a holistic understanding of the electrical corporation infrastructure, annual targets as reported in its WMP, and quarterly planning and progress for each initiative. These data enable Energy Safety to evaluate the electrical corporation's WMP and compliance.

Energy Safety provides a template geodatabase to implement the required GIS data schema. Electrical corporations must use this template geodatabase for their GIS data submissions.

3.1.1 Version History

These GIS data guidelines comprise version 3.0 of the Energy Safety GIS Data Reporting Standard. 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

Documentation and related materials for current and previous versions of the GIS data can be found on the Energy Safety website, https://energysafety.ca.gov/who-we-are/department-organization/electrical-infrastructure-directorate/data-analytics-division/.

3.2 Overall Data File Requirements

Electrical corporations must meet the following requirements when submitting GIS data to Energy Safety:

1. Submit data as feature classes and tables in a single GDB.
2. Name the GDB according to guidance 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 specified in this document.
5. Customize metadata as needed to follow the requirements in this document.
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).

Electrical corporations must ensure location accuracy in their GIS data submissions, specifically with regards to the following:

- All records must have reasonably correct locations.[8]
- All records must include location geometry.
- 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 at state borders that are observing conditions within California would be included in the data submission.

Upon receipt, Energy Safety will review data submissions for quality and completeness. Repeated issues with data quality will be considered in future WMP reviews and compliance assessments by Energy Safety.

3.3 Addressing Missing Data

3.3.1 Entirely Empty Feature Classes and Tables

For each GIS data submission to Energy Safety, electrical corporations must make a reasonable effort to submit as much of the required data in the GDB as possible. In some cases, this may result in feature classes and tables with fields partially filled out. There may also be feature classes and tables in which no fields can be filled out at all. In such a case, electrical corporations must delete any empty feature classes and tables prior to submission to Energy Safety, and only submit feature classes and tables that have data.

3.3.2 Empty Cells

When there is no data for a cell, and "Unknown," "-99," or "N/A" are not applicable values, electrical corporations must leave the cell null or calculated as null if it is not already null. Electrical corporations must not place empty spaces or other placeholders into fields when no data are available.

[8] For example, pole-mounted asset data points being a few feet offset from power lines would often not be an issue, but something like outage points in the middle of the Pacific Ocean would be an issue.

3.4 Geodatabase Structure

Energy Safety provides a required template GDB that reflects the current data standard. This template includes empty feature classes and tables for all required data. The GDB includes a series of feature datasets with each one containing thematically similar feature classes. The GDB also contains tables associated with the feature classes using primary and foreign keys as specified.

3.4.1 Feature Class and Table Naming Conventions

The required template GDB includes the format for feature data set, feature class, and table names. Electrical corporations 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.

3.5 Metadata

Electrical corporations 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. Electrical corporations are 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 to 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.

3.6 Spatial Data Status Report

3.6.1 Introduction

The status report is intended to provide Energy Safety and other stakeholders transparent insight into submitted data and continued progress towards full compliance with Energy Safety spatial data reporting requirements.

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

3.6.2 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
- Metadata included
- Metadata Absence Explanation
- Data Procurement Actions
- Estimated Delivery

Electrical corporations 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 three possible reasons data might not be submitted are detailed in the table below.

Reason	Explanation / Examples
No change since last submission	There have been no changes to the electrical corporation's internal data since the last QDR spatial data submission (Energy Safety will continue to use previously submitted data). This reason only applies to 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)

3.6.2.1 Availability Explanation

For any feature class the electrical corporation was "Not able to provide", the electrical corporation must provide an "Availability Explanation" in that column. At a minimum, explain why data are unavailable. Enter other relevant commentary as needed. Electrical corporations do not need to provide an explanation 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.

3.6.2.2 Metadata

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

3.6.2.3 Data Procurement Actions and Estimated Delivery

For any feature class the electrical corporation was "Not able to provide", the electrical corporation must explain what actions the electrical corporation has taken and plans to take to collect and report currently unavailable data in the Data Procurement Actions" column and when data are expected to be available in the "Estimated Delivery" column. Electrical corporations do not need to provide these explanations 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.

3.6.3 Detail Sheet

The detail sheet lists the field names, field descriptions, and specifications for each field in each feature and table. The following columns are included to provide a status and related information **for each field**:

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

If no data were submitted in a feature or table, electrical corporations do not need to add any information on the detail sheet for that feature or table. Noting that the feature class was not submitted, and why, on the overview sheet, is sufficient. Similarly, if an entire feature or table is considered confidential, this must be noted on the overview sheet. The "Provided in current submission" and "Confidential" columns must be completed for all fields in each feature class or table that was submitted. 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.

3.6.3.1 Provided in Current Submission

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 "Partially." If all values are "-99," "Unknown," or null, enter "No."

3.6.3.2 Availability Explanation

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

3.6.3.3 Data Procurement Actions

Enter information in this column for unavailable and partially available data at the field level. Explain what actions the electrical corporation has taken and plans to take to collect and report currently unavailable or partially available data.

3.6.3.4 Estimated Delivery

Enter information in this column for unavailable and partially available data at the field level. State when such data can be submitted to Energy Safety. Explain time delays or other timing issues as needed.

3.6.3.5 Confidential

Enter "Yes" or "No" to indicate whether the provided data is being claimed by the electrical corporation as confidential.

Note: An application for confidential status must be submitted concurrently with the files containing the data to be protected. This applies to documents submitted through the standard E-File system and 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.

3.7 Data Schema

3.7.1 Asset Point (Feature Dataset)

3.7.1.1 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.
SuppportStructureID	Unique ID for support structure to which camera is attached. Foreign key to the Support Structure feature. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • 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 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.

3.7.1.2 Connection Device (Feature Class)

Electrical corporations must report splices and devices that perform the same function as a splice (i.e., joining two segments of conductor) in this feature class. Electrical corporations do 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. A segment may be anything more granular than a circuit, including a single span. 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
AssetOHUG	Is the asset overhead or underground? Possible values: • Overhead • Underground • Unknown This field is required.

ConnectionDeviceType	What type of connection device is the asset? Possible values: • Splice • Connector • Clamp • Unknown • Other, see comment **Note: electrical corporations do 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 • Unknown • 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"). Leave blank if unknown. 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"). Leave blank if unknown. This field is required.
CircuitName	Name of circuit associated with asset. Leave blank or enter "N/A" 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. Fully spell out the manufacturer name. Enter "Unknown" if this cannot be determined. This field is required.
ModelNumber	Model number of the asset. Enter "Unknown" if this cannot be determined. This field is required.
LastInspectionDate	Date of the last inspection. Leave blank if unknown. This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field OR Installation Year OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. This field OR InstallationDate OR EstimatedAge is required.

EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. 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. If unknown, enter "-99." 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.

3.7.1.3 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: • BV • 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. A segment may be anything more granular than a circuit, including a single span. 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 blank or enter "N/A" 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 • Unknown 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. Enter "Unknown" if this cannot be determined. This field is required.
ModelNumber	Model number of the asset. Enter "Unknown" if this cannot be determined. This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. This field OR InstallationDate OR EstimatedAge is required.
EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. 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.

3.7.1.4 Fuse (Feature Class)

IMPORTANT: Only overhead fuse locations are to be included 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: • BV • 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. A segment may be anything more granular than a circuit, including a single span. 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"). Leave blank if unknown. 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"). Leave blank if unknown. This field is required.
CircuitName	Name of circuit associated with asset. Leave blank or enter "N/A" 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. Leave blank if unknown. This field is required.
LastMaintenanceDate	Date of the last maintenance. Leave blank if unknown. This field is required.

ExemptionStatus	Is the asset exempt per California Public Resources Code (PRC) 4292? 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 • Unknown • 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 • Unknown • 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.

3.7.1.5 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: • BV • 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. A segment may be anything more granular than a circuit, including a single span. 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"). Leave blank if unknown. 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"). Leave blank if unknown. This field is required.
CircuitName	Name of circuit associated with asset. Leave blank or enter "N/A" 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. Fully spell out the manufacturer name. Enter "Unknown" if this cannot be determined. This field is required.
ModelNumber	Model number of the asset. Enter "Unknown" if this cannot be determined. This field is required.
LastInspectionDate	Date of the last inspection. Leave blank if unknown. This field is required.
LastMaintenanceDate	Date of the last maintenance. Leave blank if unknown. This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. This field OR InstallationDate OR EstimatedAge is required.

EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. 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. If unknown, enter "-99." This field is required.
ExemptionStatus	Is the asset exempt per California Public Resources Code (PRC) 4292? 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 • Unknown • 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.

3.7.1.6 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: • BV • 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"). Enter "-99" if N/A. 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"). Enter "-99" if N/A. 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. Leave blank if unknown. This field is required.
InstallationDate	Date the first asset of the substation was installed. Leave blank if unknown. This field OR InstallationYear is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. 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.

3.7.1.7 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.
PoleNumber	Pole ID or number visible on the physical asset. This field is required.

UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • 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? 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 • Unknown • N/A The "N/A" option is only applicable outside of state responsibility area. This field is required.
LastInspectionDate	Date of the last inspection. Leave blank if unknown. This field is required.
LastMaintenanceDate	Date of the last maintenance. Leave blank if unknown. This field is required.
LastIntrusiveDate	Date of the last intrusive. Leave blank if unknown. This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field is required. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. This field OR InstallationDate OR EstimatedAge is required.
EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. 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. If unknown, enter "-99." 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 line 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 • Unknown This field is required.
OverallUtilityRisk	Overall risk calculated for the structure as required in WMP guidelines section 4. Note that electrical corporations are 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 electrical corporation performs its risk ranking on support structures (note that an 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 electrical corporations are 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 electrical corporation performs its risk ranking on support structures (note that an 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 electrical corporations are 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 electrical corporation performs its risk ranking on support structures (note that an 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.

3.7.1.8 Support Structure Detail (Table)

This table is provided to allow relationships between support structures and multiple circuits to be documented. Segment IDs are preferred, but electrical corporations may use circuit ID to identify line features associated with support structures if they do not have stable unique IDs for circuit segments. Electrical corporations 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: • BV • 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. A segment may be anything more granular than a circuit, including a single span. 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.

3.7.1.9 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: • BV • 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. A segment may be anything more granular than a circuit, including a single span. 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 blank or enter "N/A" 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.
AssetOHUG	Is the asset overhead or underground? Possible values: • Overhead • Underground • Unknown This field is required.
AssociatedNominalVoltagekV	Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if N/A. This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if N/A. This field is required.
Manufacturer	Name of the manufacturer of the equipment. Do not use acronyms or abbreviations for this field. Fully spell out the manufacturer name. Enter "Unknown" if this cannot be determined. This field is required.
ModelNumber	Model number of the asset. Enter "Unknown" if this cannot be determined. This field is required.
LastInspectionDate	Date of the last inspection. Leave blank if unknown. This field is required.
LastMaintenanceDate	Date of the last maintenance. Leave blank if unknown. This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. This field OR InstallationDate OR EstimatedAge is required.

EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. 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. If unknown, enter "-99." This field is required.
ExemptionStatus	Is the asset exempt per California Public Resources Code (PRC) 4292? 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 • Unknown • 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 • Unknown 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.

3.7.1.10 Transformer Site (Feature Class)

Electrical corporations 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.
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: • BV • 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) • Unknown This field is required.
InaBank	Does a single point represent multiple assets that exist in a bank arrangement? Possible values: • Yes • No • Unknown This field is required.
QuantityinBank	How many transformers exist in a bank arrangement (if applicable)? Enter "-99" if unknown. 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.

3.7.1.11 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, electrical corporations must use only one record; for locations with a bank of transformers represented by a single point, electrical corporations 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: • BV • 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 HighSideSegmentID AND LowSideSegmentID is required.
CircuitName	Name of circuit associated with asset. Leave blank or enter “N/A” 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. Enter “-99” if N/A. This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter “-99” if N/A. This field is required.
Manufacturer	Name of the manufacturer of the transformer. Do not use acronyms or abbreviations for this field. Fully spell out the manufacturer name. Enter “Unknown” if this cannot be determined. This field is required.

ModelNumber	Model number of the asset. Enter “Unknown” if this cannot be determined. This field is required.
LastInspectionDate	Date of the last inspection. Leave blank if unknown. This field is required.
LastMaintenanceDate	Date of the last maintenance. Leave blank if unknown. This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter “-99” if unknown. This field OR InstallationDate OR EstimatedAge is required.
EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A “N/A” may be used only where “Installation Date” or “Installation Year” is populated. 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. If unknown, enter “-99.” 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 • Unknown • 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.

3.7.1.12 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. This field OR InstallationDate OR EstimatedAge is required.
EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. This field OR InstallationDate OR InstallationYear is required.
LastMaintenanceDate	Date of last maintenance. Leave blank if unknown. This field is required.
Placement	Where is the weather station installed? Possible values: • Ground • Pole • Unknown This field is required.
HasAnemometer	Does this weather station include an anemometer? Possible values: • Yes • No • Unknown 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 • Unknown 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 • Unknown This field is required.
NFDRSCompliant	Does the weather station meet National Fire Danger Rating System (NFDRS) standards? Possible values: • Yes • No If this is unknown, use "No". This field is required. Current standards can be found at https://raws.nifc.gov/standards-guidelines
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.

3.7.2 Asset Line (Feature Dataset)

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

3.7.2.1 Transmission Line (Feature Class)

IMPORTANT: If an electrical corporation classifies some lines as "sub-transmission" those lines must be included in this feature class, and the electrical corporation's definition of "sub-transmission" must be explained in 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: • BV • 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. Enter "N/A" 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 • Unknown This field is required.
NominalVoltagekV	Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-99" if N/A. This field is required.
OperatingVoltagekV	Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-99" if N/A. 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. Leave blank if unknown. This field is required.
LastMaintenanceDate	Date of the last maintenance. Leave blank if unknown. This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. This field OR InstallationDate OR EstimatedAge is required.

EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. 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. If unknown, enter "-99." This field is required.
AmpacityRating	Nominal ampacity rating of the conductor in amperes. This field is required.
Greased	Is the conductor greased to prevent water intrusion? Possible values: • Yes • No • Unknown This field is required.
OverallUtilityRisk	Overall risk calculated for the segment as required in WMP guidelines section 4. Note that electrical corporations are 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 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 electrical corporations are 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 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 electrical corporations are 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 electrical corporation performs its risk ranking on transmission **lines** (rather than on support structures only).

3.7.2.2 Transmission Line Detail (Table)

Create as many records for each circuit or segment as required to record the substations associated with it.

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 CircuitID is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • 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.

3.7.2.3 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: • BV • 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 blank or enter "N/A" 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 • Unknown This field is required.
NominalVoltagekV	Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-99" if N/A. This field is required.
OperatingVoltagekV	Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-99" if N/A. This field is required.
SubstationName	Name of substation associated with asset. 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. Leave blank if unknown. This field is required.
LastMaintenanceDate	Date of the last maintenance. Leave blank if unknown. This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. This field OR InstallationDate OR EstimatedAge is required.
EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. 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. If unknown, enter "-99." This field is required.
AmpacityRating	Nominal ampacity rating of the conductor in amperes. This field is required.
Greased	Is the conductor greased to prevent water intrusion? Possible values: • Yes • No • Unknown This field is required.
OverallUtilityRisk	Overall risk calculated for the segment as required in WMP guidelines section 4. Note that electrical corporations are 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 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 electrical corporations are 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 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 electrical corporations are 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 electrical corporation performs its risk ranking on primary distribution lines (rather than on support structures only).

3.7.2.4 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: • BV • 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 blank or enter "N/A" 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 • Unknown 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"). Leave blank if unknown. 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"). Leave blank if unknown. This field is required.
SubstationName	Name of substation associated with asset. 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. Leave blank if unknown. This field is required.
LastMaintenanceDate	Date of the last maintenance. Leave blank if unknown. This field is required.
InstallationDate	Date the asset was installed. Leave blank if unknown. This field OR InstallationYear OR EstimatedAge is required.
InstallationYear	Year of asset installation. Use four digits. Enter "-99" if unknown. This field OR InstallationDate OR EstimatedAge is required.

EstimatedAge	The age of the asset in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. 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. If unknown, enter "-99." This field is required.
AmpacityRating	Nominal ampacity rating of the conductor in amperes. This field is required.
Greased	Is the conductor greased to prevent water intrusion? Possible values: • Yes • No • Unknown This field is required.
OverallUtilityRisk	Overall risk calculated for the segment as required in WMP guidelines section 4. Note that electrical corporations are 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 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 electrical corporations are 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 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 electrical corporations are 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 electrical corporation performs its risk ranking on secondary distribution **lines** (rather than on support structures only).

3.7.3 PSPS Event (Feature Dataset)

3.7.3.1 Overview for PSPS Events

Electrical corporations must report certain information after a Public Safety Power Shutoff (PSPS) event, pursuant to current California Public Utilities Commission (CPUC) requirements on PSPS event and damage data[9]. Although consolidating reporting requirements is ideal to eliminate duplicative efforts and for efficient use of resources, Energy Safety recognizes that there may be PSPS data elements in its GIS data reporting requirements that take longer than the CPUC's 10-day reporting deadline to collect, review, and deliver. Additionally, there are elements in Energy Safety's requirements that are more detailed than any reporting requirements for data in the CPUC's 10-day post-event reports.

Electrical corporations 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.

3.7.3.2 PSPS Event Log (Table)

Field Name	Field Description
EventID	A unique standardized ID for the unique event. Primary key enabling connection to PSPS event feature. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
EOCActivationDateTime	Date and time 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.

[9] See Resolution ESRB-8, Commission Decision (D.)19-05-042, and D.20-05-051.

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”.

3.7.3.3 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: • BV • 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 D.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.

3.7.3.4 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 segmemnts 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 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: • BV • 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 – may have 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 IsolationDevie 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 D.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 features the total PSPS impact on critical infrastructure. This field is required.

3.7.3.5 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: • BV • 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 • Unknown 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.

3.7.3.6 PSPS Event Damage

3.7.3.6.1 PSPS Event Damage Point (Feature Class)

Photos are required to accompany this feature class. At least one photo is to be taken of the asset damage, and at least one photo is to be taken 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 Table 2 and Section 2.3.1.2 of these Guidelines for further guidance.

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: • BV • 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.

3.7.3.6.2 PSPS Event Conductor Damage Detail (Table)

Using a one-to-many relationship, electrical corporations 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, electrical corporations must use only one related table record. If there are multiple instances of damage in the same location represented by a single point, electrical corporations 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: • BV • 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”). Leave blank if unknown. 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”). Leave blank if unknown. 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. Write “Unknown” or “N/A” as appropriate. 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 • Unknown 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 • Unknown This field is required.

VmInspectionDate	Date of vegetation inspection. Leave blank if unknown. This field is required IF Cause is "Vegetation contact".
VegetationGenus	Genus of vegetation. This field may be left blank 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: *Ailanthus, Albizia, Acacia, Agave, Arctostaphylos, Calistemon, Casuarina, Catalpa, Ceanothus, Citrus, Eucalyptus, Lagerstroemia, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Salix, Tamarisk.* This field may be filled out as "sp." or left blank for the above genera and may be left blank 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 optional UNLESS 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). Maximum value: 300. 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). Maximum value: 180. 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".

3.7.3.6.3 PSPS Event Support Structure Damage Detail (Related Table)

Using a one-to-many relationship, electrical corporations 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, electrical corporations must use only one related table record. If there are multiple instances of damage in the same location represented by a single point, electrical corporations must use one related table record per instance of damage. Electrical corporations 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: • BV • 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 • Unknown 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”). Leave blank if unknown. 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"). Leave blank if unknown. This field is required.
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 • Unknown 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. Leave blank if unknown. This field is required IF Cause is "Vegetation contact".
VegetationGenus	Genus of vegetation. This field may be left blank 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: *Ailanthus, Albizia, Acacia, Agave, Arctostaphylos, Calistemon, Casuarina, Catalpa, Ceanothus, Citrus, Eucalyptus, Lagerstroemia, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Salix, Tamarisk.* This field may be filled out as "sp." or left blank for the above genera and may be left blank 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 optional UNLESS 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). Maximum value: 300. 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). Maximum value: 180. 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".

3.7.3.6.4 PSPS Event Other Asset Damage Detail (Related Table)

Using a one-to-many relationship, electrical corporations 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, electrical corporations must use only one related table record. If there are multiple instances of damage in the same location represented by a single point, electrical corporations must use one related table record per instance of other asset damage. Electrical corporations 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: • BV • 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.
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.
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.
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 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 • Unknown 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”). Leave blank if unknown. 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”). Leave blank if unknown. 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. If some sort of model or part code/name is not available, at least record the manufacturer name. Write "Unknown" if no manufacturer info can be determined based on information available in the field. “Unknown” values should be reviewed by other electrical corporation staff after data collection and filled in from existing databases or other sources if possible. This field is required.
ExemptionStatus	Is the asset exempt per California Public Resources Code (PRC) 4292? 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 • Unknown • 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 • Unknown This field is required.
VmInspectionDate	Date of vegetation inspection. Leave blank if unknown. This field is required IF Cause is “Vegetation contact”.
VegetationGenus	Genus of vegetation. This field may be left blank 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: *Ailanthus, Albizia, Acacia, Agave, Arctostaphylos, Calistemon, Casuarina, Catalpa, Ceanothus, Citrus, Eucalyptus, Lagerstroemia, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Salix, Tamarisk.* This field may be filled out as “sp.” or left blank for the above genera and may be left blank 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). Maximum value: 300. 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. Maximum value: 180. 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".

3.7.3.6.5 PSPS Event Damage Photo Log (Related 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: UtilityG&E_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: • BV • 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.

3.7.4 Risk Event (Feature Dataset)

3.7.4.1 Overview for Wire Down Events, Outages, and Ignitions

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.

3.7.4.2 Wire Down Event (Feature Class)

Electrical corporations 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, electrical corporations 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: • BV • 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 any asset recorded as a point in data submitted to Energy Safety was damaged.

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. Leave blank if unknown. 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 • Unknown 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 failed or damaged equipment or component involved if "SuspectedWireDownCause" value is "Equipment failure." 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 • Unknown • Other, see comment This field is required IF Cause is "Equipment failure".
EquipmentFailureComment	Equipment failure description not listed in the options above. 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 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 Cause 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 Cause is "Object contact" or "Vegetation contact" AND FacilityContacted is "Other, see comment".

VegetationGenus	Genus of vegetation. This field may be left blank for palms and bamboo. Not required unless "ObjectContact" is "Vegetation". 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: *Ailanthus, Albizia, Acacia, Agave, Arctostaphylos, Calistemon, Casuarina, Catalpa, Ceanothus, Citrus, Eucalyptus, Lagerstroemia, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Salix, Tamarisk.* This field may be filled out as "sp." or left blank for the above genera and may be left blank 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"). Leave blank if unknown. 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"). Leave blank if unknown. 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.
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 • Unknown • 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.

3.7.4.3 Ignition (Feature Class)

Photos are required to accompany this feature class. Electrical corporations must submit at least one photo for each location where an ignition started. Electrical corporations 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 A of the 2023 - 2025 Wildfire Mitigation Plan Technical Guidelines[10] ("WMP Technical Guidelines") 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.

[10] 2023-2025 WMP Technical Guidelines, adopted 12/6/2022

UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • 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. Leave blank if unknown. 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 • Unknown • 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 blank for palms and bamboo. Not required unless “ObjectContact” is “Vegetation”. 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: *Ailanthus, Albizia, Acacia, Agave, Arctostaphylos, Calistemon, Casuarina, Catalpa, Ceanothus, Citrus, Eucalyptus, Lagerstroemia, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Salix, Tamarisk.* This field may be filled out as “sp.” or left blank for the above genera and may be left blank for palms and bamboo”. This field is required if the point represents an individual tree or shrub 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 SuspectedInitiatingCause is “Vegetation contact” AND the vegetation that made contact was a palm or bamboo species.

EquipmentFailure	Description of equipment involved in the ignition if “Equipment failure” is the value of the “SuspectedInitiatingEvent” field. 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 • Unknown • Other, see comment This field is required IF SuspectedInitiatingCause is “Equipment failure”.
EquipmentFailureComment	Description of equipment involved not listed in the options above, or any additional information about failed equipment. 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”). Leave blank if unknown. 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”). Leave blank if unknown. This field is required.
OtherCompanies	Companies (other than the electrical corporation submitting data) that had assets affected by the ignition event. These may include telephone, internet, and other service providers with equipment on affected infrastructure, if any. Enter “NA” 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 "Object contact" is selected as the value of the "SuspectedInitiatingCause" field. 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.
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 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 any asset recorded as a point in data submitted to Energy Safety was involved in the ignition.
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 a segment of conductor was involved in the ignition.
ContributingFactor	Factors suspected as contributing to the ignition. Possible values: • Weather • External Force • Human Error • Unknown • 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 blank if there was no RFW in effect at the time of ignition at the ignition location. Also leave blank if unknown. 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 blank if there was no FWW in effect at the time of ignition at the ignition location. Also leave blank if unknown. 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 blank if there was no HWW in effect at the time of ignition at the ignition location. Also leave blank if unknown. 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	Additional information regarding the ignition event. All additional data fields collected by the electrical corporation that are not included in this ignition schema shall be included in this field. This field is optional.
HFTDClass	The CPUC high-fire threat district (HFTD) area the ignition event 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.
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.

3.7.4.4 Unplanned Outage (Feature Class)

Electrical corporations 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: • BV • 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 • Unknown 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 "Object contact" is selected as the value of the "SuspectedInitiatingCause" field. 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".
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 to initiate the outage. Only applicable if the "BasicCause" field has the value of "Equipment failure." If the device involved in the equipment failure is not in the list below, use the "Other, see comment" value and input an appropriate comment in the "EquipmentFailureComment" field. 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 • Unknown • Other, see comment This field is required IF BasicCause is "Equipment failure".
EquipmentFailureComment	Failed equipment description not listed in the options above, or any additional information about damaged device. 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 any asset recorded as a point in data submitted to Energy Safety was involved in causing the outage.
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 a segment of conductor was damaged or failed.
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: 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: 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: 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. Enter "-99" if N/A. This field is required.
AssociatedOperatingVoltagekV	Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if N/A. 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 "NA" 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 • Switch • Other, see comment 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 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.
VmOutageDescription	Description or additional information for outage events caused by vegetation. This field is optional.
VmInspectionDate	Date of vegetation inspection. Leave blank if unknown. This field is required IF BasicCause is "Vegetation contact".
VegetationGenus	Genus of vegetation. This field may be left blank for palms and bamboo.
VegetationSpecies	Species of vegetation. Do not use "sp." except for the following genera: *Ailanthus, Albizia, Acacia, Agave, Arctostaphylos, Calistemon, Casuarina, Catalpa, Ceanothus, Citrus, Eucalyptus, Lagerstroemia, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Salix, Tamarisk.* This field may be filled out as "sp." or left blank for the above genera and may be left blank for palms and bamboo. This field is required if the point represents an individual tree or shrub 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 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). Maximum value: 300. 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). Maximum value: 180. 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.

3.7.4.5 Risk Event Photo Log (Related 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: UtilityG&E_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: • BV • 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.

3.7.5 Initiative (Feature Dataset)

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

3.7.5.1 Vegetation Inspections

3.7.5.1.1 Overview for Vegetation Inspections

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

Photos are encouraged but optional for vegetation inspections. If submitting vegetation inspection photos, 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.

3.7.5.1.2 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary. Possible values: • Regulatory • Discretionary This field is required.
AssetID	Unique ID for a specific point asset. Foreign key to the Asset Point features. For 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.
ParcelAPN	Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. This field is required.
VegetationGenus	Genus of vegetation. This field may be left blank 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: *Ailanthus, Albizia, Acacia, Agave, Arctostaphylos, Calistemon, Casuarina, Catalpa, Ceanothus, Citrus, Eucalyptus, Lagerstroemia, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Salix, Tamarisk.* This field may be filled out as “sp.” or left blank for the above genera and may be left blank for palms and bamboo. This field is required IF the point represents an individual tree or shrub 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 the point represents an individual palm or bamboo plant location.
TreeHeight	Tree height (feet). Round the value. Maximum value: 300. This field is required if the point represents an individual tree or shrub.
TreeDiameter	Tree diameter at breast height (inches). Round the value. Maximum value: 180. This field is required if the point represents an individual tree or shrub.
TreeDistance	Distance (in feet) between tree or shrub and electrical corporation’s nearest utility asset. This field is required if the point represents an individual tree or shrub.
DangerTree	For points representing individual trees: Is this a “danger tree” per 14 CCR 895.1? Possible values: • Yes • No • Unknown This field is required if the point represents an individual tree or shrub.

WMPInitiativeActivity	Description of initiative activity. See *Appendix C. Initiative Classification*. May add other activity descriptions not in that list. This field is required.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.2.2 of the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of the electrical corporation's most recent WMP where section begins. This field is required.
InspectionStatus	The status of the vegetation inspection project. Possible values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".

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 blank 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 • Unknown This field is required.
TreeTrimCount	The number of trees identified for trimming from the vegetation management inspection. Trees counted must be over 6” DBH and outside a 4’ radius of the conductor. This field is required.
TreeRemovalCount	The number of trees identified for removal from the vegetation management inspection. Trees counted must be over 6” DBH and outside a 4’ radius of the conductor. 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 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.

3.7.5.1.3 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary. Possible values: • Regulatory • Discretionary This field is required.
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.
WMPInitiativeActivity	Description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list. This field is required.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.2.2 of the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.

WMPPageNumber	Page number of WMP where section begins. This field is required.
InspectionStatus	The status of the vegetation inspection project. Possible values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. Leave blank if unknown. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".
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 blank 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 • Unknown This field is required.
TreeTrimCount	The number of trees identified for trimming from the vegetation management inspection. Trees counted must be over 6" DBH and outside a 4' radius of the conductor. This field is required.
TreeRemovalCount	The number of trees identified for removal from the vegetation management inspection. Trees counted must be over 6" DBH and outside a 4' radius of the conductor. 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 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 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”.

3.7.5.1.4 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.
UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.

UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary. Possible values: • Regulatory • Discretionary This field is required.
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.

WMPInitiativeActivity	Description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list. This field is required.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.2.2 of the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. This field is required.
InspectionStatus	The status of the vegetation inspection project. Possible values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables . This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables . This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables . This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. Leave blank if unknown. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".

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 blank 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 • Unknown This field is required.
TreeTrimCount	The number of trees identified for trimming from the vegetation management inspection. Trees counted must be over 6” DBH and outside a 4’ radius of the conductor. This field is required.
TreeRemovalCount	The number of trees identified for removal from the vegetation management inspection. Trees counted must be over 6” DBH and outside a 4’ radius of the conductor. 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 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 the project polygon intersects multiple HFTD areas, list all of them here. This field is required IF HFTDClass is "Multiple, see comment".

3.7.5.2 Vegetation Management Projects

3.7.5.2.1 Overview for Vegetation Management Projects

In the context of these requirements, vegetation management projects involve the physical manipulation of vegetation (clearing, thinning, etc.) whereas inspections are focused on inspecting the state of vegetation near power line assets. For vegetation management projects, Energy Safety provided template feature classes for points, lines, and polygons in case an 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 an 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 an electrical corporation does not record any vegetation inspection data in any geospatial geometry, they must start recording vegetation inspection GIS geometry data going forward. With each quarterly data submission, electrical corporations 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).

Photos are encouraged but optional for vegetation management projects. If submitting vegetation management project photos, 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.

3.7.5.2.2 Vegetation Management Project Point (Feature Class)

This feature class is intended to provide an appropriate template for situations in which an 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 “Vegetation Project Line” or “Vegetation Project Polygon” feature classes are to be used instead. 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? 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 the VM activity represented by the point is focused on conductor (e.g., radial clearance).
ProjectLocationOrAddress	Address or location description for vegetation project location. This field is optional.
ParcelAPN	Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. 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 blank 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: *Ailanthus, Albizia, Acacia, Agave, Arctostaphylos, Calistemon, Casuarina, Catalpa, Ceanothus, Citrus, Eucalyptus, Lagerstroemia, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Salix, Tamarisk.* This field may be filled out as “sp.” or left blank for the above genera and may be left blank for palms and bamboo. This field is required IF the point represents an individual tree or shrub 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 the point represents an individual palm or bamboo plant location.
SpeciesGrowthRate	Generalized growth rate of the subject tree species. Possible values: • Slow growing • Moderately growing • Fast growing This field is required if the point represents an individual tree or shrub.
TreeHeight	Tree height (feet). Round the value. Maximum value: 300. This field is required if the point represents an individual tree or shrub.
TreeDiameter	Tree diameter at breast height (inches). Round the value. Maximum value: 180. This field is required if the point represents an individual tree or shrub.
DangerTree	For points representing individual trees: Is this a “danger tree” per 14 CCR 895.1? Possible values: • Yes • No • Unknown This field is required if the point represents an individual tree or shrub.

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 electrical corporations are 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.
WMPInitiativeActivity	Description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. 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 "Yes".
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.

ChangeOrderDate	Date the change order was submitted. This field is required IF ChangeOrder is “Yes”.
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is “Yes”.
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is “Yes” AND ChangeOrderType is “Other change, see comment”.
DescriptionOfWork	Additional description of the vegetation management work. This field is optional.
StartDate	The start date of the vegetation management project. If exact date is not known, may approximate as the first day of the month in which project began. This field is required IF InspectionStatus is “In progress” OR “Complete”.
EndDate	The completion date of the vegetation management project. If exact date is not known, may approximate as last day of the month in which project was completed. This field is required IF InspectionStatus 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 optional.

CommercialHarvest	Does the initiative involve commercial harvest? Possible values: • Yes • No • Unknown 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. 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. 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. Enter “0” if tree trimming is not part of the vegetation project or if the vegetation project has a value of “Planned” under the “VmpStatus” field. This field is required.
TreeRemovalCountActl	Number of trees actually removed as part of the project. Enter “0” if tree removal is not part of the vegetation project or if the vegetation project has a value of “Planned” under the “VmpStatus” field. This field is required.
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 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.

3.7.5.2.3 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? 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 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).
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 electrical corporations are 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.
WMPInitiativeActivity	More specific description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. 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 "Yes".
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.

QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".
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 blank for planned projects. This field is required IF InspectionStatus 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 InspectionStatus 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 optional.
CommercialHarvest	Does the initiative involve commercial harvest? Possible values: • Yes • No • Unknown 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. 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. 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. Enter “0” if tree trimming is not part of the vegetation project or if the vegetation project has a value of “Planned” under the “VmpStatus” field. This field is required.
TreeRemovalCountActl	Number of trees actually removed as part of the project. Enter “0” if tree removal is not part of the vegetation project or if the vegetation project has a value of “Planned” under the “VmpStatus” field. This field is required.

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 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 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".

3.7.5.2.4 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? 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 activity represented by the point is focused on conductor (e.g., radial clearance) AND the electrical corporation has persistent stable IDs for circuit segments.

CircuitID	ID of the specific circuit on which the work was done, if any. Foreign key to the Asset Line features if the electrical corporation does not have persistent unique segment IDs. This field is required IF the inspection activity represented by the point is focused on conductor (e.g., radial clearance) AND SegmentID is not populated.
LineClass	Identifies the feature class where the segment or circuit ID should be found. Possible values: • Transmission Line • Primary Distribution Line • Secondary Distribution Line This field is required IF the inspection activity represented by the point is focused on conductor (e.g., radial clearance).
ProjectLocationOrAddress	Address or location description for project location. This field is optional.
LineDeenergized	Do the power lines need to be de-energized to perform the work? Possible values: • Yes • No This field is required.
WMPInitiativeActivity	More specific description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. 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 "Yes".
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.

InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. Leave blank if unknown. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".
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 InspectionStatus 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 InspectionStatus 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 optional.
CommercialHarvest	Does the initiative involve commercial harvest? Possible values: • Yes • No • Unknown 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. Enter “0” if tree trimming is not part of the vegetation project. This field is required.
TreeTrimAcreagePlanned	Acreage of trees planned for trimming in the project. Use two decimal places. Enter “0” if the vegetation project data are not recorded as a polygon or if tree trimming is not part of the project. This field is required.
TreeRemovalCountPlanned	Number of trees planned for removal in the project. Enter “0” if tree removal is not part of the vegetation project. This field is required.
TreeRemovalAcreagePlanned	Acreage of trees planned for removal in the project. Use two decimal places. Enter “0” if the vegetation project data are not recorded as a polygon or if tree removal is not part of the vegetation project. Trees counted must be over 6” DBH and outside a 4’ radius of the conductor. This field is required.
TreeTrimCountActl	Number of trees actually trimmed as part of the project. Enter “0” if tree trimming is not part of the vegetation project or if the vegetation project has a value of “Planned” under the “VmpStatus” field. This field is required.
TreeTrimAcreageActl	Acreage of trees actually trimmed as part of the in the project. Two decimal places. Enter “0” if the vegetation project data are not recorded as a polygon or if tree trimming is not part of the vegetation project or if the vegetation project has a value of “Planned” under the “VmpStatus” field. This field is required.

TreeRemovalCountActl	Number of trees actually removed as part of the project. Enter “0” if tree removal is not part of the vegetation project or if the vegetation project has a value of “Planned” under the “VmpStatus” field. This field is required.
TreeRemovalAcreageActl	Acreage of trees actually removed as part of the project. Use two decimal places. Enter “0” if the vegetation project data are not recorded as a polygon or if tree removal is not part of the vegetation project or if the vegetation project has a value of “Planned” under the “VmpStatus” field. This field is required.
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 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 the project polygon intersects multiple HFTD areas, list all of them here. This field is required IF HFTDClass is “Multiple, see comment”.

3.7.5.3 Asset Inspections

3.7.5.3.1 Overview for Asset Inspections

For asset inspections, Energy Safety provides template feature classes for points, lines, and polygons in case an electrical corporation records asset inspection data in any of these geometries. Any asset inspection data recorded in these formats must be submitted. However, if an 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 an 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, electrical corporations 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).

Photos are encouraged but optional for asset inspections. If submitting asset inspection photos, electrical corporations 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 practive is to take a photo of the inspection issue before and after the action. When before and after photos are taken for points, electrical corporations 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.

3.7.5.3.2 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary. Possible values: • Regulatory • Discretionary This field is required.

AssetID	Unique ID for a specific point asset. Foreign key to 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.
ParcelAPN	Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. If the asset inspected does not intersect a parcel boundary, enter “N/A” for this field. This field is required.
WMPInitiativeActivity	More specific description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.1.3 of the electrical corporation’s WMP. This field is required.
WMPSection	Section of the electrical corporation’s most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. This field is required.

InspectionStatus	Status of the asset inspection. Possible Values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".
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”.
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.

3.7.5.3.3 Asset Inspection Line (Feature Class)

Field Name	Field Description
AiID	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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UtilityInitiativeTrackingID	The “Utility Initiative Tracking ID” is a unique tracking ID for a given Initiative. This ID must match the “Utility Initiative Tracking ID” field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation’s discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary. Possible values: • Regulatory • Discretionary This field is required.
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.
WMPInitiativeActivity	More specific description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.1.3 of the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. This field is required.
InspectionStatus	Status of the asset inspection. Possible Values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. This field is required IF ChangeOrder is "Yes".

ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".
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".
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 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".

3.7.5.3.4 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
InitiativeClass	Was the activity performed ONLY to meet requirements of statute or regulation, or done at the electrical corporation's discretion? Inspections done at increased frequency relative to requirements or normal operations are considered discretionary. Possible values: • Regulatory • Discretionary This field is required.
AssetID	Unique ID for a specific point asset. Foreign key to 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.
WMPInitiativeActivity	More specific description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list.
InspectionProgramName	Inspection program name for the inspection. This must match Section 8.1.3 of the electrical corporation's WMP. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins.
InspectionStatus	Status of the asset inspection. Possible Values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. This field is required.

ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required.
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrderType is “Other change , see comment”.
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".
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".

3.7.5.4 Grid Hardening

3.7.5.4.1 Overview for Grid Hardening

Examples of the types of grid hardening for which Energy Safety expects to receive 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 an electrical corporation records grid hardening data in either of these geometries. Any grid hardening data recorded in these formats must be submitted. However, if an 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 an electrical corporation does not record any grid hardening data in any geospatial geometry, it must start recording grid hardening GIS geometry data going forward. With each quarterly data submission, electrical corporations 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).

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.

3.7.5.4.2 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
AssetOHUG	Is the asset overhead or underground? Possible values: • Overhead • Underground • Unknown This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.

UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
AssetID	Unique ID for a specific point asset. Foreign key to all the related Asset Point feature class attribute tables. For Support Structure, use Support Structure ID. For Transformer Site, use Transformer Site ID. This field is required IF the inspection activity represented by the point is focused on an individual asset recorded as a point in data submitted to Energy Safety.
AssetFeature	Identifies the feature class where the asset ID should be found. Possible values: • Camera • Connection Device • Fuse • Lightning Arrester • Substation • Support Structure • Switchgear • Transformer Site • Weather Station This field is required IF the inspection activity represented by the point is focused on an individual asset recorded as a point in data submitted to Energy Safety.
SegmentID	ID of specific circuit segment inspected, if any. Foreign key to the Asset 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.
GridHardeningLocationOrAddress	Address or location description for the grid hardening location. This field is optional.
ParcelAPN	Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. If the asset inspected does not intersect a parcel boundary, enter "N/A" for this field. This field is required.
WMPInitiativeActivity	More specific description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list.

WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. This field is required.
DescriptionOfWork	Additional description of the grid hardening work. This field is optional.
GhStatus	The status of the grid hardening activity. Possible values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other, see comment".
StartDate	Start date of the grid hardening project. If exact date is not known, may approximate as first day of the month in which project began. This field is required IF InspectionStatus is "In progress" OR "Complete".

EndDate	Completion date of the grid hardening project. If exact date is not known, may approximate as last day of month in which project was completed. Not required for projects which are in progress. This field is required IF InspectionStatus is "Complete".
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 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.

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

UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
SegmentID	ID of specific circuit segment on which work was done. Foreign key to the Asset Line feature classes if the electrical corporation has persistent unique segment IDs. A segment may be anything more granular than a circuit, including a single span. This field is required IF the inspection activity represented by the point is focused on conductor AND the electrical corporation has persistent stable IDs for circuit segments.
CircuitID	ID of specific circuit on which work was done. Foreign key to the Asset Line feature classes if the electrical corporation does not have persistent unique segment IDs. This field is required IF the inspection activity represented by the point is focused on conductor AND SegmentID is not populated.
LineClass	Identifies the feature class where the Segment or Circuit ID should be found. Possible values: • Transmission Line • Primary Distribution Line • Secondary Distribution Line This field is required IF the inspection activity represented by the point is focused on conductor.
GridHardeningLocationOrAddress	Address or location description for the grid hardening location. This field is optional.
WMPInitiativeActivity	More specific description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. This field is required.
DescriptionOfWork	Additional description of the grid hardening work. This field is optional.
GhStatus	The status of the grid hardening activity. Possible values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.

InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. Leave blank if unknown. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".
StartDate	Start date of the grid hardening project. If exact date is not known, may approximate as first day of the month in which project began. This field is required IF InspectionStatus is "In progress" OR "Complete".
EndDate	Completion date of the grid hardening project. If exact date is not known, may approximate as last day of month in which project was completed. This field is required IF InspectionStatus is "Complete".
LineDeenergized	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 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 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".

3.7.5.5 Other Initiatives

3.7.5.5.1 Overview

Electrical corporations may utilize these feature classes and the related table to provide any spatial data they have on initiatives which do not fit into one of the previous classes. It is not anticipated that electrical corporations will have photos for initiatives in these feature classes. If photos are submitted, populate the "PhotoID," "IsBeforeAfter," and "GhID" fields in the "Initiative Photo Log" table to ensure photos can be linked to their associated records in these features.

3.7.5.5.2 Other Initiative Point (Feature Class)

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

WMPInitiativeCategory	Broad category for the initiative. Use categories listed in *Appendix C. Initiative Classification*. This field is required.
WMPInitiativeActivity	More specific description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. This field is required.
OiStatus	The status of the activity. Possible values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".
StartDate	Start date of the grid hardening project. If exact date is not known, may approximate as first day of the month in which project began. This field is required IF InspectionStatus is "In progress" OR "Complete".

EndDate	Completion date of the grid hardening project. If exact date is not known, may approximate as last day of month in which project was completed. Not required for projects which are in progress. This field is required IF InspectionStatus is "Complete".
OiComment	Any comments about the initiative. This field is optional.
HFTDClass	The CPUC high-fire threat district (HFTD) area the grid hardening project intersects. For 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.

3.7.5.5.3 Other Initiative Line (Feature Class)

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

InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical InitiativeTarget identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other change, see comment".
StartDate	Start date of the grid hardening project. If exact date is not known, may approximate as first day of the month in which project began. This field is required IF InspectionStatus is "In progress" OR "Complete".
EndDate	Completion date of the grid hardening project. If exact date is not known, may approximate as last day of month in which project was completed. Not required for projects which are in progress. This field is required IF InspectionStatus is "Complete".
OiComment	Any comments about the initiative. This field is optional.
HFTDClass	The CPUC high-fire threat district (HFTD) area the grid hardening project intersects. For 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 • 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".

3.7.5.5.4 Other Initiative Polygon (Feature Class)

Field Name	Field Description
OiID	Unique ID or job ID of an Other Initiative activity. Primary key for the Other Initiative Polygon feature class. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is a unique tracking ID for a given Initiative. This ID must match the "Utility Initiative Tracking ID" field for the same initiative in all QDR submissions for the initiative(s) entire lifecycle. This field should remain static even if WMP Initiative Category, WMP Initiative Activity, or WMP Section numbers change. This field is required.
LocationOrAddress	Address or location description for the activity.
WMPInitiativeCategory	Broad category for the initiative. Use categories listed in *Appendix C. Initiative Classification.* This field is required.
WMPInitiativeActivity	More specific description of initiative activity. See *Appendix C. Initiative Classification*. May add new activity descriptions not in that list. This field is required.
WMPSection	Section of the electrical corporation's most recent WMP explaining the initiative. This field is required.
WMPPageNumber	Page number of WMP where section begins. This field is required.
OiStatus	The status of the activity. Possible values: • Planned • In progress • Complete This field is required.
InitiativeTarget	The numerical target for the identified initiative activity during the reporting period. This is the expected target for the particular activity represented by the geometry, not the overall target for the larger initiative (if those are different). Do not change targets for completed projects to reflect what was actually performed. Targets must match WMP and Wildfire Mitigation Data Tables. This field is required.
QuarterlyProgress	The amount of the Initiative Target that was completed in the reporting period, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.

CumulativeProgress	The amount of the Initiative Target that was complete at the end of the reporting period, cumulative for the year, if any. This will be in the same units as the Initiative Target. Progress must match what is reported in the Wildfire Mitigation Data Tables. This field is required.
InitiativeTargetUnits	The units (e.g., trees, line miles, etc.) for the numerical Initiative Target identified above. This field is required.
ChangeOrder	Has a change order been requested for this grid hardening initiative since the approval of the electrical corporation's previous WMP? Possible values: • Yes • No This field is required.
ChangeOrderDate	Date the change order was submitted. This field is required IF ChangeOrder is "Yes".
ChangeOrderType	The type of change order requested. Possible values: • Increase in scale • Decrease in scale • Change in prioritization • Change in deployment timing • Change in work being done • Other change, see comment This field is required IF ChangeOrder is "Yes".
ChangeOrderTypeComment	Change order type not listed above. This field is required IF ChangeOrder is "Yes" AND ChangeOrderType is "Other, see comment".
StartDate	Start date of the grid hardening project. If exact date is not known, may approximate as first day of the month in which project began. This field is required IF InspectionStatus is "In progress" OR "Complete".
EndDate	Completion date of the grid hardening project. If exact date is not known, may approximate as last day of month in which project was completed. Not required for projects which are in progress. This field is required IF InspectionStatus is "Complete".
OiComment	Any comments about the initiative. This field is optional.
HFTDClass	The CPUC high-fire threat district (HFTD) area the grid hardening project intersects. For 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 • 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".

3.7.5.6 Initiative Audits

Report all audits of asset inspections, grid hardening work, vegetation management inspections, and vegetation management projects described in Section 8 of the electrical corporation's WMP (see WMP Technical Guidelines, Section 8, for requirements to describe

QA/QC including audits). Templates for points, lines, and polygons are provided for flexibility; electrical corporations are not required to report audits in geometry that matches the original inspection or project.

3.7.5.6.1 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
InitiativeFeature	What type of initiative was audited? Identifies the feature where the Initiative ID will be found. Possible values: • Asset Inspection Point • Asset Inspection Line • Asset Inspection Polygon • Grid Hardening Point • Grid Hardening Line • Vegetation Inspection Point • Vegetation Inspection Line • Vegetation Inspection Polygon • Vegetation Management Project Point • Vegetation Management Project Line • Vegetation Management Project Polygon This field is required.
InitiativeID	Unique ID of the initiative activity that was audited. Foreign key to the initiative features. This field is required.
Result	What was the result of the audit? Possible values: • No issues • Issues identified This field is required.
Description	Provide any available details about the audit results. This field is optional.
PerformedBy	Who performed the audit? Possible values: • Utility staff • Contractor • Other, see comment This field is required.

PerformedByComment	Entity that performed grid hardening and is not listed in options above. This field is required IF PerformedBy is “Other, see comment”.

3.7.5.6.2 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
InitiativeFeature	What type of initiative was audited? Identifies the feature where the Initiative ID will be found. Possible values: • Asset Inspection Point • Asset Inspection Line • Asset Inspection Polygon • Grid Hardening Point • Grid Hardening Line • Vegetation Inspection Point • Vegetation Inspection Line • Vegetation Inspection Polygon • Vegetation Management Project Point • Vegetation Management Project Line • Vegetation Management Project Polygon This field is required.
InitiativeID	Unique ID of the initiative activity that was audited. Foreign key to the initiative features. This field is required.
Result	What was the result of the audit? Possible values: • No issues • Issues identified This field is required.
Description	Provide any available details about the audit results. This field is optional.
PerformedBy	Who performed the audit? Possible values: • Utility staff • Contractor • Other, see comment This field is required.

PerformedByComment	Entity that performed grid hardening and is not listed in options above. This field is required IF PerformedBy is “Other, see comment”.

3.7.5.6.3 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: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
InitiativeFeature	What type of initiative was audited? Identifies the feature where the Initiative ID will be found. Possible values: • Asset Inspection Point • Asset Inspection Line • Asset Inspection Polygon • Grid Hardening Point • Grid Hardening Line • Vegetation Inspection Point • Vegetation Inspection Line • Vegetation Inspection Polygon • Vegetation Management Project Point • Vegetation Management Project Line • Vegetation Management Project Polygon This field is required.
InitiativeID	Unique ID of the initiative activity that was audited. Foreign key to the initiative features. This field is required.
Result	What was the result of the audit? Possible values: • No issues • Issues identified This field is required.
Description	Provide any available details about the audit results. This field is optional.
PerformedBy	Who performed the audit? Possible values: • Utility staff • Contractor • Other, see comment This field is required.

PerformedByComment	Entity that performed grid hardening and is not listed in options above. This field is required IF PerformedBy is “Other, see comment”.

3.7.5.7 Initiative Photo Log (Related 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, “UtilityG&E_AB_PspsDamage_20200703_1.png”

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

UtilityName_DistrictID_InspectorInitial_RiskEvent_YYYYMMDD_PhotoNumber

Field Name	Field Description
PhotoID	Name for a photo showing an initiative or inspection findings. Primary key for the Initiative Photo Log table. This field is required.
UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
IsBeforeAfter	Identifies before and after photos of initiatives. Possible values: • Before • After • N/A Use “N/A” for photos which are not before/after. This field is required.

InitiativeFeature	What type of initiative was audited? Identifies the feature where the Initiative ID will be found. Possible values: • Asset Inspection Point • Asset Inspection Line • Asset Inspection Polygon • Grid Hardening Point • Grid Hardening Line • Vegetation Inspection Point • Vegetation Inspection Line • Vegetation Inspection Polygon • Vegetation Management Project Point • Vegetation Management Project Line • Vegetation Management Project Polygon • Other Initiative Point • Other Initiative Line • Other Initiative Polygon • Initiative Audit Point • Initiative Audit Line • Initiative Audit Polygon This field is required.
InitiativeID	Unique ID of the initiative activity that was audited. Foreign key to the initiative features. This field is required.

3.7.6 Other Required Data (Feature Dataset)

3.7.6.1 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: • BV • 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 • Unknown 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 • Unknown 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) • Unknown • 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). Write "Unknown" if this is not known. This field is required.
OtherConductorOD	Overall diameter of the other conductor that connects to the corporation conductor in inches. Leave blank if this is not known. This field is required.
ConnectionLastInspectionDate	Date of the last inspection. Leave blank if unknown. This field is required.
ConnectionLastMaintenanceDate	Date of the last maintenance. Leave blank if unknown. This field is required.
ConnectionEstablishmentDate	Date the connection was established. Leave blank if unknown. This field OR ConnectionEstablishmentYear OR EstimatedConnectioonAge is required.
ConnectionEstablishmentYear	Year of connection establishment. Leave blank if unknown. This field OR ConnectionEstablishmentDate OR EstimatedConnectioonAge is required.
EstimatedConnectionAge	The age of the connection in years. Only fill this out 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+ • Unknown • N/A "N/A" may be used only where "Installation Date" or "Installation Year" is populated. 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. If unknown, enter "-99." This field is required.
OtherAmpacityRating	Nominal ampacity rating of the other conductor in amperes. This field is required.
OtherLineGreased	Is the other conductor connected to the corporation line greased to prevent water intrusion? Possible values: • Yes • No • Unknown 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 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.

3.7.6.2 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: • BV • 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 • Unknown 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.
ParcelAPN	ID of parcel containing critical facility. Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. 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 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.

3.7.6.3 Red Flag Warning Day (Polygon Feature Class)

The values in this feature class can be determined with publicly available information. 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. Electrical corporations are 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[11]. Electrical corporations are 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: • BV • 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.
NumberRedFlagWarningDays	Number of red flag warning days. This field is required.

3.7.6.4 High Wind Warning Day (Polygon Feature Class)

The values in this feature class can be determined with publicly available information. 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 red flag warning during the reporting quarter, including those that only partially intersect the territory. Electrical corporations are not required to clip the polygons to match their service territory boundaries.

Field Name	Field Description
HwwID	Unique ID and primary key for the Red Flag Warning Day feature class. This field is required.

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

UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • 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 HWW days. This field is required.

3.7.6.5 Administrative Area (Polygon Feature Classes)

Submit administrative area polygons for all electrical corporation-defined administrative areas used to manage the service territory. Submit one feature class per administrative area type. Each feature class submitted must utilize the schema below. Do not force all administrative areas into one feature class. The overall service territory is the broadest administrative area type that Energy Safety expects to receive. For electrical corporations with a territory that 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 an electrical corporation's service territory). 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.). All administrative area features classes must be submitted at least once, and when they are updated or revised, the electrical corporation must submit the latest version with their subsequent quarterly data submission. Electrical corporations are 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.

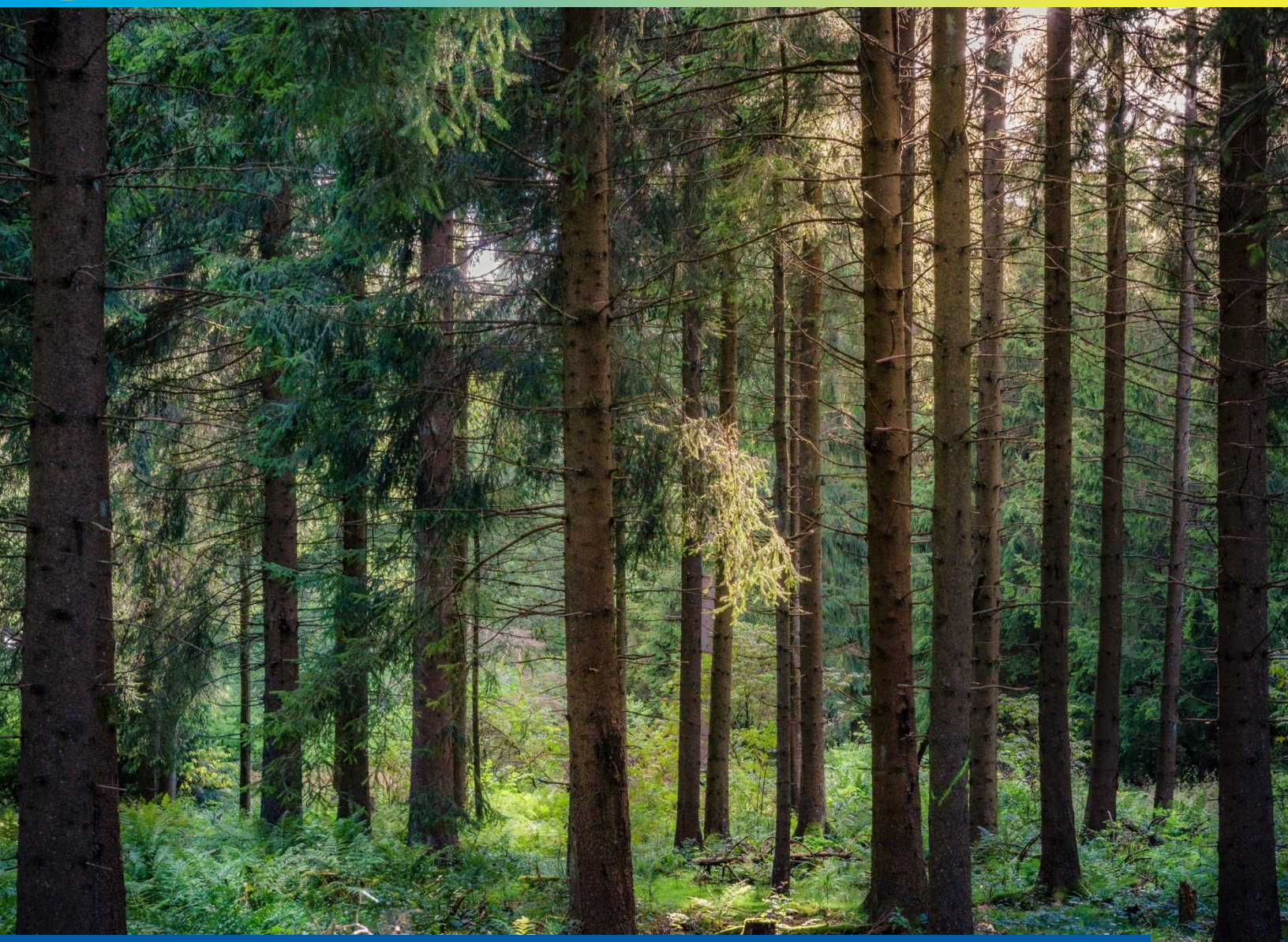
UtilityID	Standardized identification name of the electrical corporation. Possible values: • BV • HWT • Liberty • LS Power • PacifiCorp • PG&E • SCE • SDG&E • TBC This field is required.
AreaType	Type of administrative area (service territory, region, district, zone, etc.) This field is required.
SubAreaType	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.

3.7.6.6 Major Woody Stem (MWS) Exempt Tree Point

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. A legal description of qualifying trees and conditions can be found under 14 CCR § 1257. Exempt Minimum Clearance Provisions - PRC 4293. Previously, MWS points were only submitted to CAL FIRE in July of each year.

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

VegetationGenus	Genus of vegetation. This field may be left blank 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: *Ailanthus, Albizia, Acacia, Agave, Arctostaphylos, Calistemon, Casuarina, Catalpa, Ceanothus, Citrus, Eucalyptus, Lagerstroemia, Malus, Melaleuca, Photinia, Pittosporum, Podocarpus, Prunus, Salix, Tamarisk.* This field may be filled out as “sp.” or left blank for the above genera and may be left blank for palms and bamboo. This field is required IF 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 point represents an individual palm or bamboo plant location.
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 for points representing more than a single tree.



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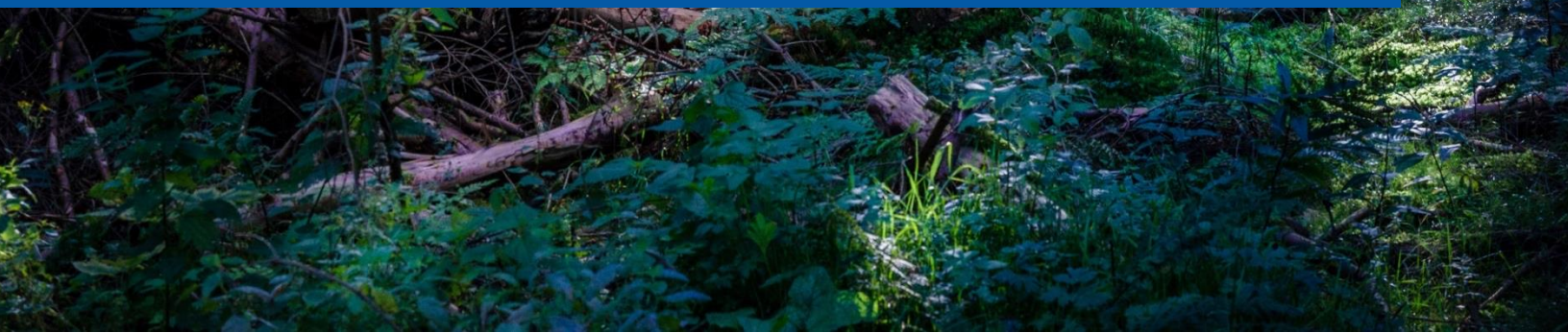


4.1 Version History

Previous WMP-related data submission guidance was 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

Starting with v3.0 of the Data Guidelines and going forward, Energy Safety will provide Wildfire Mitigation Data Table guidance as part of the Energy Safety Data Guidelines document

4.2 Overall Data File Requirements

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

- **Completeness** – The electrical corporation must report performance on each metric contained in each sheet of the Energy Safety QDR Wildfire Mitigation Data Tables Template. 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, electrical corporations must adhere to the acceptable values provided in these Guidelines and the Energy Safety QDR Wildfire Mitigation Data Tables Template. Electrical corporations must not add any extraneous characters or white spaces. Guidance on field value restrictions is provided at the field level in Section 4.3.
- **Imputation** – 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** – Data that are missing or not applicable must be provided as empty cells. The "Blank Meaning" column at the end of each table must be used to indicate if the data is blank because it is missing or not applicable.
- **Internal Consistency** – The data submitted by the electrical corporation in the wildfire mitigation data tables must be internally consistent with the geospatial data submitted by the electrical corporation. This is to ensure that data reported in the

different submission types is from the same source (e.g., ignitions reported for a given quarter is consistent with ignitions reported for the same quarter in the GIS data.) If data is not going to be consistent between submission types, the submitting electrical corporation must provide an explanation documenting why there is a difference and what measures will be taken to ensure consistency.

- **Naming Convention** – Electrical corporations must name each submission according to the Guidance provided in Table 2 in Section 2.1.1 of these Guidelines.

4.3 Data Schema

The guidance provided in this section together with the required Wildfire Mitigation Data Tables Template represents the Wildfire Mitigation Data schema. This section of the Guidelines explains the tables in the template and how to correctly populate them.

4.3.1 Table 1: Quarterly Initiative Update Data (QIU)

The purpose of the Quarterly Initiative Update (QIU) is for both the electrical corporations and Energy Safety to have a holistic understanding of the electrical corporation's annual targets as reported in its WMP and projected quarterly progress for each initiative activity at the beginning of each reporting year. This information will enable Energy Safety to track the electrical corporation's compliance to its initiative activity targets throughout the year.

Electrical corporations must submit supplemental files, when requested by Energy Safety via data requests, during Energy Safety audits. Electrical corporations must then submit the requested files to the Energy Safety E-Filing System within 5-10 business days of receiving the data request from Energy Safety.

The required submission template for Table 1 is included in the Energy Safety QDR Wildfire Mitigation Data Tables Template. Each initiative activity must be provided as a record with the following fields:

In Table 1 of the submission template, columns AJ-AL are managed by Energy Safety, and columns AF-AH will only be completed by an electrical corporation upon Energy Safety request.

Field Name	Field Description	Field Value Constraints
UtilityID	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
SubmissionDate	Date of submission formatted as MM/DD/YYYY.	Date
InitiativeClassification	• 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
ProjectStartDate	• Related to InitiativeClassification field if selection is "Project".	Date
ProjectEndDate	• Related to InitiativeClassification field if selection is "Project".	Date
UtilityInitiativeName	Electrical corporation name for the initiative.	Text
InitiativeDescription	500-character text field.	Text
InitativieObjecvtive	A statement of the initiative activity intent that is limited to 500 characters (i.e., what does the electrical corporation plan to accomplish with this initiative). The statement must be of sufficient detail to permit the assessment of the electrical corporation's ability to achieve this objective.	Text
WMPInitiativeCategory	The WMP Initiative Category under which the subject WMP Initiative Activity is organized. See *Appendix C. Initiative Classification* for acceptable field values.	Restricted to values indicated in Field Description
WMPInitiativeCategory#	The WMP section number under which the subject Initiative Category is discussed.	Numeric Text
WMPInitiativeActivity	The name of the subject WMP Initiative Activity, as provided by Energy Safety. See *Appendix C. Initiative Classification* for acceptable field values. If this value is "Other," provide the Activity name in ActivityNameifOther.	Restricted to values indicated in Field Description

ActivityNameifOther	If WMPInitiativeActivity was "Other," provide the Initiative Activity name as it is referred to in the electrical corporation's WMP.	Text
WMPInitiativeActivity#	The WMP section number under which WMPInitiativeActivity is discussed.	Numeric Text
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is the unique tracking ID for a given initiative activity. This ID must match the "Utility Initiative Tracking ID" field for the same initiative activity in all data submissions for the initiative's entire lifecycle.	Text
WMPInitiativeCode	Coded Unique ID of the initiative. Must be unique for each initiative for each electrical corporation for each year. Follows the format "[UtilityID]_ [WMPInitiativeCategory]_[WMPInitiativeActivity]_[UtilityInitiativeTrackingID]_[Year four digit number (e.g., "2021")]". For example, the code "PGE_Vegetation Management & Inspections_Substation vegetation management _001_2021" would be where electrical corporation is PG&E, Initiative category is Vegetation Management & Inspections, activity is Substation vegetation management, unique initiative ID is 001 and the year is 2021.	Text
WMPPageNumber	Page of most recent WMP where initiative is detailed. If the initiative is detailed on multiple pages, indicate the first page.	Integer
RiskTargetReduction	Risk components targeted for reduction by implementing the initiative: • Equipment ignition likelihood • Contact from vegetation ignition likelihood • Contact by object ignition • Wildfire spread • Wildfire hazard • Wildfire exposure potential • Wildfire vulnerability • PSPS likelihood • PSPS exposure potential • PSPS vulnerability Please see Appendix C, section C.3.4. table C-7 of the 2023-2025 Wildfire Mitigation Plan Technical Guidelines for more detailed guidance.	Restricted to values indicated in Field Description
MidYearTarget (Yes/No)	Indicator field for reference to Table 13. • Yes • No	Restricted to values indicated in Field Description
QuantTargetUnits	If initiative has a quantitative target, then report the units for the target. For example, if the initiative is installing covered conductors, then the unit would be "# of covered conductors installed."	Text

AnnualQuantTarget	Quantitative target for the year. Note that all Projected Quarterly Progress columns must be completed in the Q1 submission. End of year targets should not change unless a change order has been approved.	Numeric ≥ 0
ProjectedQuantProgressQ1	YTD Quantitative projected progress by end of Q1: Jan 1 - Mar 31	Numeric ≥ 0
ProjectedQuantProgressQ1-2	YTD quantitative projected progress by end of Q2: Jan 1 - June 30. Q1 projected progress + Q2 projected progress	Numeric ≥ 0
ProjectedQuantProgressQ1-3	YTD quantitative projected progress by end of Q3: Jan 1 - Sep 30. Q1 projected progress + Q2 projected progress + Q3 projected progress	Numeric ≥ 0
ProjectedQuantProgressQ1-4	YTD quantitative projected progress by end of Q4: Jan 1 - Dec 31.	Numeric ≥ 0
QuantActualProgressQ1	Actual quantitative progress by end of Q1: Jan 1 - Mar 31	Numeric ≥ 0
QuantActualProgressQ1-2	Actual YTD quantitative progress by end of Q2: Jan 1 - June 30. Q1 progress + Q2 progress	Numeric ≥ 0
QuantActualProgressQ1-3	Actual YTD quantitative progress by end of Q3: Jan 1 - Sep 30. Q1 progress + Q2 progress + Q3 progress	Numeric ≥ 0
QuantActualProgressQ1-4	Actual YTD quantitative progress by end of Q4: Jan 1 - Dec 31. Total annual progress	Numeric ≥ 0
AnnualQualTarget	If initiative has a qualitative target, then detail the target. For example, if the initiative is building a centralized data lake, then the target may be "Developing a centralized data lake by end of year"	Text
QualActualProgressQ1	Qualitative progress by end of Q1: Jan 1 - Mar 31	Text
QualActualProgressQ1-2	Qualitative progress by end of Q2: Jan 1 - June 30	Text
QualActualProgressQ1-3	Qualitative progress by end of Q3: Jan 1 - Sep 30	Text
QualActualProgressQ1-4	Qualitative progress by end of Q4: Jan 1 - Dec 31. Total annual progress	Text
Status	Energy Safety expects initiative activity status designations to progress over time from Planned to In Progress to Completed, as electrical corporations submit their wildfire mitigation data. Initiative 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

CorrectiveActionsIfDelayed	If projected progress vs actual progress indicates a delay in an electrical corporation's implementation of its initiative activity, (e.g., reported QuantProgress for Q1 was significantly below ProjectedQuantProgress for Q1), the electrical corporation must detail corrective actions it is taking to address the delay.	Text
REFERENCE: Compliance Branch Requirements -->	See field name.	Text
Audit	See field name.	Text
Audit File Documentation Requested	See field name.	Text
FolderLink	See field name.	Text
PersonInChargeName	See field name.	Text
PersonInChargeEmail	See field name.	Text

4.3.2 Table 2: Performance Metrics

Wildfire Mitigation Data Table 2 includes reporting on specific performance metrics. This information serves as a barometer for how an electrical corporation complies with its plan and whether it is achieving measurable results.

Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data where appropriate for year, comments, and blank meaning fields. Any additional data must be entered by the electrical corporation in Table 3 only. Outside of the fields designed to receive new data, the electrical corporation *must not alter the table in any way*. Except as specified below in relation to vegetation management inspection programs, no additional columns or rows will be accepted. 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.

Field specific guidance for Table 2 is provided below. Please see Table 2 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

4.3.2.1 Adding Rows: Vegetation Management

Under Metric Type, "2. Time between vegetation inspection finding and resulting trimming activity," the electrical corporation may add rows as needed to include all relevant programs. Only the "Program Name" field value may be customized. All programs listed must be consistent with the related reporting outlined in Section 8.2.2 of the 2023-2025 WMP Technical Guidelines.

Field Name	Field Description	Field Value Constraints
Program Name	Vegetation management inspection program names defined by the Electrical Corporation, if applicable, only under the following Metric type: 2. Time between vegetation inspection finding and resulting trimming activity	Text
Year and quarter (i.e., Q1, 2021)	Values for the indicated metric for each specified year and quarter	Numeric ≥ 0
Comments	Provide any necessary comments.	Text
Blank meaning	See section 4.2 Overall Data File Requirements.	Text

4.3.3 Table 3: List and Description of Additional Metrics

In addition to the metrics specified above, the electrical corporation must report on any other metrics tracked by the electrical corporation to evaluate wildfire mitigation performance. Please see Table 3 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure. The record of each additional metric identified by the electrical corporation must contain the following:

Field Name	Field Description	Field Value Constraints
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
Year and quarter (I.e., Q1, 2021)	Values for the indicated metric for each specified year and quarter	Numeric ≥ 0, or blank

Units	Description of units used to measure and report initiative activity progress	Text
Comments	Provide any necessary comments.	Text
Blank Meaning	See section 4.2 Overall Data File Requirements.	Text

4.3.4 Table 4: Weather Patterns

Table 4 provides reporting on three weather pattern Metric Types that are important for WMP evaluations: Red Flag Warning (RFW), High Wind Warning (HWW), and Fire Potential Index (FPI). Electrical corporations may also use the "Other" weather pattern Metric Type in cases where they track occurrences of other weather conditions in relation to their utility infrastructure. All units must be in circuit mile days and broken out to HFTD tier 2, HFTD tier 3, and non-HFTD.

Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data where appropriate for year, comments, and blank meaning fields. Any additional tracked weather pattern metrics must be entered by the electrical corporation in the additional row specified. Outside of the fields or rows designed to receive new data, the electrical corporation *must not alter the table in any way*. No additional columns or rows will be accepted, except as outlined for other weather patterns. 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.

Field specific guidance for Table 4 is provided below. Please see Table 4 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

Energy Safety provides direction on how to calculate Red Flag Warning (RFW), High Wind Warning (HWW), and Fire Potential Index (FPI) circuit mile days in Section 6.4.3 of the 2023-2025 WMP Technical Guidelines.

Field Name	**Field Description**	**Field Value Constraints**
Year and quarter (I.e., Q1, 2021)	Values for the indicated metric for each specified year and quarter	Numeric ≥ 0, or blank
Comments	Provide any necessary comments.	Text
Blank Meaning	See section 4.2 Overall Data File Requirements.	Text

4.3.5 Table 5: Risk Event Drivers

Table 5 includes primarily wire down and outage events that are not associated with ignitions. 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. Outages include any wire down events that caused an outage. All risk events exclude ignitions.

Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data where appropriate for year, comments, and blank meaning fields. Any additional data must be entered by the electrical corporation in Table 3 only. Outside of the fields designed to receive new data, the electrical corporation *must not alter the table in any way*. No additional columns or rows will be accepted. 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.

Field specific guidance for Table 2 is provided below. Please see Table 5 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

Field Name	Field Description	Field Value Constraints
Year	Values for the indicated metric for year specified	Numeric ≥ 0, or blank
Comments	Provide any necessary comments.	Text
Blank Meaning	See section 4.2 Overall Data File Requirements.	Text

4.3.6 Table 6: Ignition Drivers

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 and Table 6 both contain ignitions data, but the focus and reporting details differ somewhat. To the extent that the subjects of Table 2 and Table 6 overlap, data reported in these tables must be consistent.

Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data where appropriate for year, comments, and blank meaning fields. Any additional data must be entered by the electrical corporation in Table 3 only. Outside of the fields designed to receive new data, the electrical corporation *must not alter the table in any way*. No additional columns or rows will be accepted. 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.

Field specific guidance for Table 6 is provided below. Please see Table 6 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

Field Name	Field Description	Field Value Constraints
Year	Values for the indicated metric for year specified	Numeric ≥ 0, or blank
Comments	Provide any necessary comments.	Text
Blank Meaning	See section 4.2 Overall Data File Requirements.	Text

4.3.7 Table 7: State of Service Territory and Utility Equipment

Table 7 breaks utility equipment and customer counts down across multiple service area designations. HFTD tier, Urban/Rural/Highly Rural, and WUI status are all considered in relation to the identified equipment and customer count categories.

Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data where appropriate for year, comments, and blank meaning fields. Any additional data must be entered by the electrical corporation in Table 3 only. Outside of the fields designed to receive new data, the electrical corporation *must not alter the table in any way*. No additional columns or rows will be accepted. 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.

Field specific guidance for Table 7 is provided below. Please see Table 7 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

Field Name	Field Description	Field Value Constraints
Year	Values for the indicated metric for year specified	Numeric ≥ 0, or blank
Comments	Provide any necessary comments.	Text
Blank Meaning	See section 4.2 Overall Data File Requirements.	Text

4.3.8 Table 8: Location of Utility Equipment Additions or Removal

In Table 8, the electrical corporation must provide a summary of projected and actual additions or removals of equipment in their service territory across 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. Energy Safety assumes

projections reported in Table 7 reflect complete implementation of related wildfire mitigation activities.

Electrical corporations must report actual and projected net additions using positive numbers and net removals using negative numbers. 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. Electrical corporations must not report cumulative net change across years.

Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data where appropriate for year, comments, and blank meaning fields. Any additional data must be entered by the electrical corporation in Table 3 only. Outside of the fields designed to receive new data, the electrical corporation *must not alter the table in any way*. No additional columns or rows will be accepted. 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.

Field specific guidance for Table 8 is provided below. Please see Table 8 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

Field Name	Field Description	Field Value Constraints
Year	Values for indicated metric for year specified	Numeric or blank
Comments	Provide any necessary comments.	Text
Blank Meaning	See section 4.2 Overall Data File Requirements.	Text

4.3.9 Table 9: Location of Utility Infrastructure Upgrades

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

Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data where appropriate for year, comments, and blank meaning fields. Any additional data must be entered in Table 3 only. Outside of the fields designed to receive new data, the electrical corporation *must not alter the table in any way*. No additional columns or rows will be accepted. 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.

Field specific guidance for Table 9 is provided below. Please see Table 9 of the Energy Safety QDR Wildfire Mitigation Data Tables template for the full table structure.

Field Name	Field Description	Field Value Constraints
Year	Values for indicated metrics for each year specified	Numeric ≥ 0, or blank
Comments	Provide any necessary comments.	Text
Blank Meaning	See section 4.2 Overall Data File Requirements.	Text

4.3.10 Table 10: Recent Use of PSPS and Other PSPS Metrics

In Table 10, the electrical corporation must report on specified PSPS-related metrics. Five PSPS metric types are broken down across specified PSPS-related outcome metrics, with wind warning status also considered where indicated.

The electrical corporation must include actuals at the year level from 2015 to 2019, then at the quarterly level starting in 2020. Reported actuals must align with previously submitted data unless corrections are needed due to errors identified in previous submissions, in which case the electrical corporation must submit such corrections consistent with guidance provided in Section 2.4 of these Guidelines.

The electrical corporation must provide quarterly projections for future years through 2025 based on its anticipated usage of PSPS as an interim strategy during the 3-year WMP cycle. These projections must be aligned with the strategies described in related sections of the electrical corporation's WMP.

Entering Data and Alteration of Sheets/Tables

Electrical corporations must enter the data where appropriate for year, comments, and blank meaning fields. Any additional data must be entered by the electrical corporation in Table 3 only. Outside of the fields designed to receive new data, *do not alter the table in any way*. No additional columns or rows will be accepted. 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.

Field specific guidance for Table 10 is provided below with their descriptions and respective data types. Please see the Energy Safety QDR Wildfire Mitigation Data Tables for the full table structure.

Field Name	Field Description	Field Value Constraints
Year and quarter (I.e., Q1, 2021)	Values for the indicated metric for each year and quarter specified	Numeric ≥ 0, or blank
Comments	Provide any necessary comments.	Text
Blank Meaning	See section 4.2 Overall Data File Requirements.	Text

4.3.11 Table 11: Mitigation Initiative Financials

In Table 11, the electrical corporation must provide a summary of the actual and projected costs of initiative activities. For each initiative activity, the electrical corporation must categorize expenditures by type, as either capital expenditure (CAPEX) or operative expenditure (OPEX).

Expenditure totals must be reported by year and in thousands of dollars. Expenditure amounts must also be broken out by total territory and HFTD. The Territory expenditure values for each initiative activity must include the entire electrical corporation's service territory, *including HFTD*. The HFTD expenditure field represents a subset of the Territory field. Expenditure breakdowns under each specified year must be reported as actuals for reporting periods that have occurred and projections for future reporting periods.

Entering Data and Alteration of Sheets/Tables

Outside of the fields designed to receive new data, the electrical corporation *must not alter the table in any way*. No additional columns will be accepted. 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.

Field-specific guidance is provided for Table 11 below. Please see Table 11 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

Field Name	Field Description	Field Value Constraints
WMPInitiativeCategory	The WMP Initiative Category under which the subject WMP Initiative Activity is organized. See *Appendix C. Initiative Classification* for acceptable field values.	Restricted to values indicated in Field Description

WMPInitiativeActivity	The name of the subject WMP Initiative Activity, as provided by Energy Safety. See *Appendix C. Initiative Classification* for acceptable field values. If this value is "Other," provide the Activity name in Comments.	Restricted to values indicated in Field Description
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is the unique tracking ID for a given initiative activity. This ID must match the "Utility Initiative Tracking ID" field for the same initiative activity in all data submissions for the initiative's entire lifecycle.	Text
Primary driver targeted	Specific risk component / outcome metric which is expected to be impacted by the initiative activity	Text
Secondary driver targeted	Specific risk component / outcome metric which is expected to be impacted by the initiative activity	Text
Year initiated	Specific risk components / outcome metrics which are expected to be impacted by the mitigation initiative	Text
If existing: most recent proceeding that has reviewed program	See field name.	Text
If new: memorandum account	See field name.	Text
Current compliance status - In / exceeding compliance with regulations	Meeting / exceeding compliance with regulations	Text
Associated rule(s) - if multiple, separate by semi-colon - ";"	Rulings associated with the initiative	Text
If spend not disaggregated by category, note spend category or mark general operations	See field name.	Text
Comments	Additional comments by the electrical corporation on the initiative	Text
CAPEX ($ thousands) Territory Year	Capital expenditure on the initiative activity for the entire service territory in thousands of dollars	Numeric ≥ 0, or blank
CAPEX ($ thousands) HFTD Year	Capital expenditure on the initiative activity in HFTD portions of the service territory in thousands of dollars	Numeric ≥ 0, or blank
OPEX ($ thousands) Territory Year	Operations expenditure on the initiative activity for the entire service territory in thousands of dollars	Numeric ≥ 0, or blank
OPEX ($ thousands) HFTD Year	Operations expenditure on the initiative activity in HFTD portions of the service territory in thousands of dollars	Numeric ≥ 0, or blank
Blank Meaning	See section 4.2 Overall Data File Requirements.	Text

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

Table 12 is designed to track electrical corporations' achievement of their WMP initiative activity targets, for those initiative activities where Energy Safety has indicated midyear targets are required. While Table 1 also collects initiative data, Table 1 tracks quarterly actuals alongside progress projections. Table 12 tracks actuals in relation to midyear hard targets established by the electrical corporations in their WMPs. While all initiative activities will be reported in Table 12 for end of year targets, only Asset Inspections, Vegetation Management, and Stakeholder Coordination (with regards to PSPS) must be reported relative to midyear targets, as indicated in the 2023-2025 WMP Technical Guidelines.

Note: Electrical corporations must report data for 2023 and 2024 together for the 2023 WMP submission only. Starting in 2024, electrical corporations must report targets a year in advance of the implementation of their WMP plans. For example, in 2024 each electrical corporation will submit their plans and targets for 2025; in 2025 electrical corporations will submit their WMP plans with targets for 2026, etc.

Entering Data and Alteration of Sheets/Tables

Electrical corporations must enter data as outlined below. Outside of the fields designed to receive new data, *do not alter the table in any way*. No additional columns will be accepted. Any changes or alterations to field names, domain options, or altering the general structure of this table may result in a rejection of the data and a request for resubmission.

Table 12 fields are outlined below with their field name, field description and domain options (where appropriate), and guidance on any field-specific character restrictions that may apply.

Field Name	Field Description	Field Value Constraints
WMPInitiativeCategory	The WMP Initiative Category under which the subject WMP Initiative Activity is organized. See *Appendix C. Initiative Classification* for acceptable field values.	Restricted to values indicated in Field Description
WMPInitiativeActivity	The name of the subject WMP Initiative Activity, as provided by Energy Safety. See *Appendix C. Initiative Classification* for acceptable field values. If this value is "Other," provide the Activity name in Comments.	Restricted to values indicated in Field Description
UtilityInitiativeTrackingID	The "Utility Initiative Tracking ID" is the unique tracking ID for a given initiative activity. This ID must match the "Utility Initiative Tracking ID" field for the same initiative activity in all data submissions for the initiative's entire lifecycle.	Text
Target Type	• Qualitative • Quantitative	Text

Units	Units used to measure and report initiative activity targets and actuals	Text
Target: YTD End of Q2	End of Q2 YTD target initiative activity progress for years indicated in Table 12 template	If qualitative: Text If quantitative: Numeric ≥ 0
Target: YTD End of Q3	End of Q3 YTD target initiative activity progress for years indicated in Table 12 template	If qualitative: Text If quantitative: Numeric ≥ 0
Target: End of year	End of year YTD target initiative activity progress for years indicated in Table 12 template	If qualitative: Text If quantitative: Numeric ≥ 0
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 initiative	Text

4.3.13 Table 13: Open Work Orders / Notifications

In Table 13, electric corporations 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. 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 implements data collection related to Section 8.1.7 of the WMP Technical Guidelines.

Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data as outlined below. Outside of the fields designed to receive new data, the electrical corporation *must not alter the table in any way*. No additional columns will be accepted. 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.

Field specific guidance for Table 13 is provided below. Please see Table 13 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

Field Name	Field Description	Field Type
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 the work order was originally opened	See field name.	Date
Due date of the original work order	See field name.	Date
GO 95 rule 18 priority level of the original work order	Priority level of the work order as outlined in General Order 95 (G0 95) rule 18. https://ia.cpuc.ca.gov/gos/go95/go_95_rule_18.htm	Text
Optional utility-specific repair priority	Some electrical corporations may have a more granular level reporting standard than GO 95 rule 18. If a more detailed category level is used internally, Electrical corporations may enter those categories here.	Text
Date(s) the work order was reinspected or modified (if applicable)	See field name.	Date
Due date of the work order after it was reinspected or modified (if applicable)	See field name.	Date
Priority of the work order after it was reinspected or modified (if applicable)	See field name.	Text
Reason for reinspection (if applicable)	See field name.	Text

4.3.14 Table 14: HFTD Area Risk Summary

In Table 14, electric corporations must report the calculated value of each risk component summarized by HFTD designation (Non-HFTD, Tier 2, and Tier 3).

The electrical corporation must only update these values annually with the submission of its Q4 data.

Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data as outlined below. Outside of the fields designed to receive new data, the electrical corporation must not alter the structure and existing columns of the table. The electrical corporation must provide additional columns with electrical corporation-defined risk components as identified in section 6.2.1 of its WMP. 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.

Field specific guidance for Table 14 is provided below. Please see Table 14 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

Field Name	Field Description	Field Type
HFTD Area	The CPUC high-fire threat district (HFTD) area and line type (Distribution/Transmission). 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 Distribution • HFTD 2 Distribution • HFTD 3 Distribution • Non-HFTD Transmission • HFTD 2 Transmission • HFTD 3 Transmission HFTD data can be downloaded from: https://ia.cpuc.ca.gov/firemap	Restricted to values indicated in Field Description
Overall Utility Risk	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Ignition Risk	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
PSPS Risk	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Ignition Likelihood	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Equipment Likelihood of Ignition	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Contact from Vegetation Likelihood of Ignition	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Contact from Object Likelihood of Ignition	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Burn Probability	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
PSPS Likelihood	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Wildfire Consequence	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Wildfire Hazard Intensity	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Wildfire Exposure Potential	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Wildfire Vulnerability	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
PSPS Consequence	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
PSPS Exposure Potential	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric

Vulnerability of Community to PSPS	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
(Utility to add additional risk component fields as necessary)	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric

4.3.15 Table 15: Top Risk Circuit Scores

In Table 15, electric corporations must report the calculated value of each risk component for circuits, segments, or spans that significantly contribute to risk. In accordance with the 2023-2025 WMP Technical Guidelines (Section 6.4.2), 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.

For this table, the electrical corporation may use either circuits, segments, or spans, whichever is more appropriate considering the granularity of its risk model(s). This table is intended to be an extension of the summary information provided in Section 6.4.2 of the electrical corporation's WMP.

The electrical corporation must only update these values annually with the submission of its Q4 data.

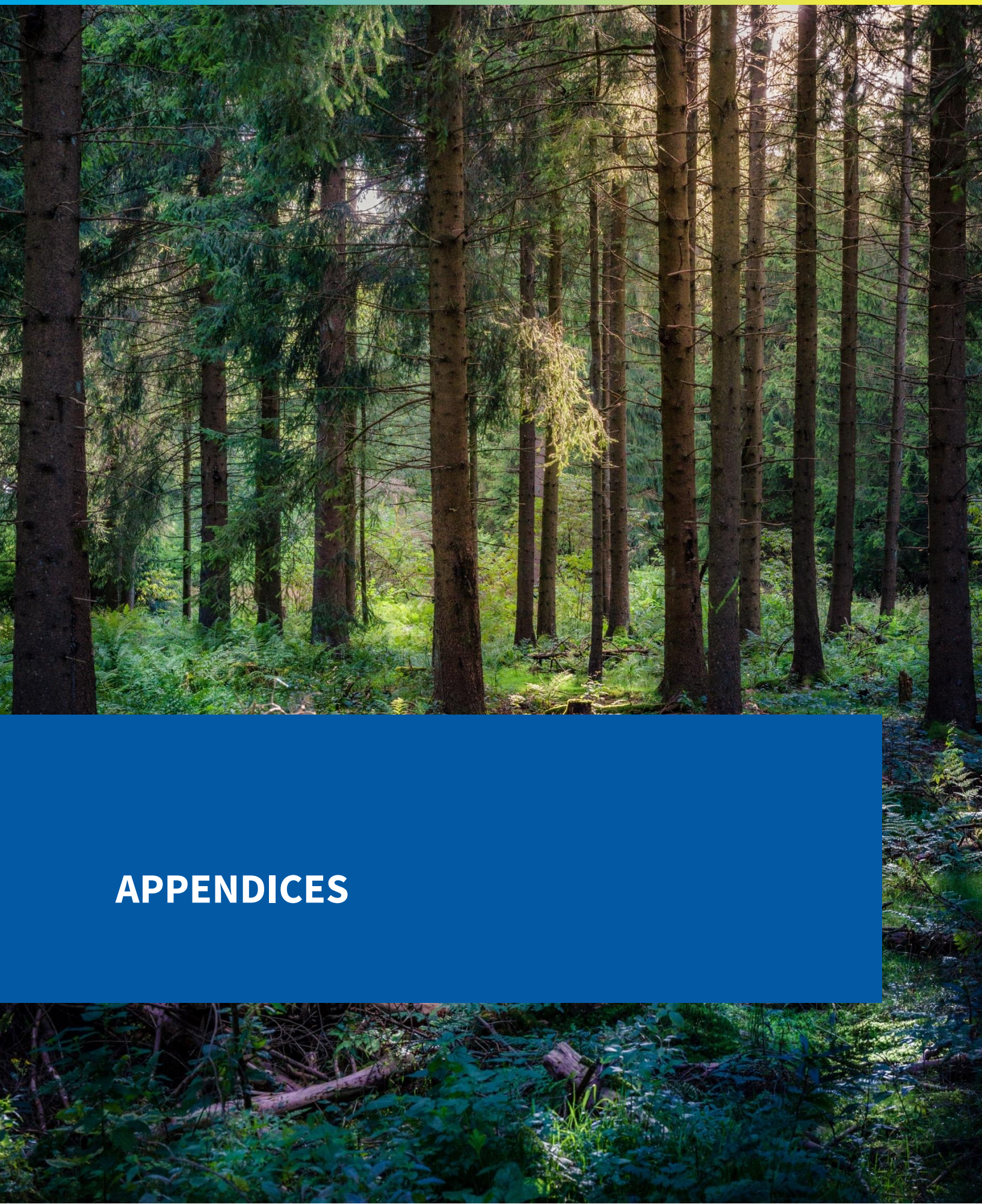
Entering Data and Alteration of Sheets/Tables

The electrical corporation must enter data as outlined below. Outside of the fields designed to receive new data, the electrical corporation must not alter the structure and existing columns of the table. The electrical corporation must provide additional columns with electrical corporation-defined risk components as identified in Section 6.2.1 of its WMP. 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.

Field specific guidance for Table 15 is provided below. Please see Table 15 of the Energy Safety QDR Wildfire Mitigation Data Tables Template for the full table structure.

Field Name	Field Description	Field Type
Risk Granularity	• Circuit • Segment • Span See 6.4.2 of WMP Technical Guidelines for description.	Restricted to values indicated in Field Description

Line Class	• Distribution • Transmission	Restricted to values indicated in Field Description
Top- Risk Circuit/ Segment/ Span ID	See 6.4.2 of WMP Technical Guidelines for description.	Text
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% See 6.4.2 of WMP Technical Guidelines for description.	Restricted to values indicated in Field Description
HFTD Area	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 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Ignition Risk	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
PSPS Risk	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Ignition Likelihood	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Equipment Likelihood of Ignition	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Contact from Vegetation Likelihood of Ignition	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Contact from Object Likelihood of Ignition	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Burn Probability	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
PSPS Likelihood	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Wildfire Consequence	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Wildfire Hazard Intensity	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Wildfire Exposure Potential	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Wildfire Vulnerability	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
PSPS Consequence	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
PSPS Exposure Potential	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
Vulnerability of Community to PSPS	See 6.2.1 of WMP Technical Guidelines for definition.	Numeric
(Utility to add additional risk component fields as necessary)	See 6.2.1 of WMP Technical Guidelines for definition.	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
HFTD	High-fire threat district
hh	2-digit hour
HWW	High wind warning
kV	Kilovolt
kVA	Kilovolt amp
LRA	Local responsibility area
MM	2-digit month
mm	2-digit minute
MVA	Megavolt-ampere
MWS	Major woody stem
N/A	Not applicable
NWS	National Weather Service
Oplc	Other power line connection
PK	Primary key
PRC	Public Resources Code
PSPS	Public safety power shutoff
Q	Quarter (calendar quarter)

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

Appendix B. Glossary

As used in these Guidelines, the definitions provided in this Appendix apply. Where terms used in these Guidelines are defined in the 2023-2025 WMP Technical Guidelines, the definitions provided in Appendix A of the 2023-2023 WMP Technical Guidelines apply.

Where terms used in these Guidelines are not defined in this Appendix nor defined in the 2023 WMP Technical 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.

Energy Safety QDR Wildfire Mitigation Data Tables Template: Refers to the *Energy Safety QDR Wildfire Mitigation Data Tables 1 – 15* workbook.

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

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

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

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

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

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

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

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

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

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

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

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

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

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 applies the guidance provided in Appendix A of the 2023-2025 WMP Technical Guidelines for the purposes of populating data submission fields related to WMP Initiative Category and Activity classifications.

WMPInitiativeCategory	WMPInitiativeCategory#	WMPInitiativeActivity#	WMPInitiativeActivity
Community Outreach and Engagement	8.5	8.5.2	Public outreach and education awareness program
	8.5	8.5.3	Engagement with access and functional needs populations
	8.5	8.5.4	Collaboration on local wildfire mitigation planning
	8.5	8.5.5	Best practice sharing with other utilities
Emergency Preparedness	8.4	8.4.2	Emergency preparedness plan
	8.4	8.4.3	External collaboration and coordination
	8.4	8.4.4	Public emergency communication strategy
	8.4	8.4.5	Preparedness and planning for service restoration
	8.4	8.4.6	Customer support in wildfire and PSPS emergencies
Grid Design, Operations, and Maintenance	8.1	8.1.2.1	Covered conductor installation
	8.1	8.1.2.10	Other grid topology improvements to minimize risk of ignitions
	8.1	8.1.2.11	Other grid topology improvements to mitigate or reduce PSPS events
	8.1	8.1.2.12	Other technologies and systems not listed above
	8.1	8.1.2.2	Undergrounding of electric lines and/or equipment

	8.1	8.1.2.3	Distribution pole replacements and reinforcements
	8.1	8.1.2.4	Transmission pole/tower replacements and reinforcements
	8.1	8.1.2.5	Traditional overhead hardening
	8.1	8.1.2.6	Emerging grid hardening technology installations and pilots
	8.1	8.1.2.7	Microgrids
	8.1	8.1.2.8	Installation of system automation equipment
	8.1	8.1.2.9	Line removals (in HFTD)
	8.1	8.1.3.1	Asset inspections
	8.1	8.1.4	Equipment inspections, maintenance, and repair
	8.1	8.1.5	Asset management and inspection enterprise system(s)
	8.1	8.1.6	Quality assurance / quality control
	8.1	8.1.7	Open work orders
	8.1	8.1.8.1	Equipment Settings to Reduce Wildfire Risk (Grid Ops)
	8.1	8.1.8.2	Grid Response Procedures and Notifications (Grid Ops)
	8.1	8.1.8.3	Personnel Work Procedures and Training in Conditions of Elevated Fire Risk (Grid Ops)
	8.1	8.1.9	Workforce Planning
Overview of the Service Territory	5.4	5.4.5	Environmental compliance and permitting
Risk Methodology and Assessment	6	6	Risk Methodology and Assessment
Situational Awareness and Forecasting	8.3	8.3.2	Environmental monitoring systems
	8.3	8.3.3	Grid monitoring systems

	8.3	8.3.4	Ignition detection systems
	8.3	8.3.5	Weather forecasting
	8.3	8.3.6	Fire potential index
Vegetation Management and Inspection	8.2	8.2.2.1	Vegetation Inspections
	8.2	8.2.3.1	Pole clearing
	8.2	8.2.3.2	Wood and slash management
	8.2	8.2.3.3	Clearance
	8.2	8.2.3.4	Fall-in mitigation
	8.2	8.2.3.5	Substation defensible space
	8.2	8.2.3.6	High-risk species
	8.2	8.2.3.7	Fire-resilient right-of-ways
	8.2	8.2.3.8	Emergency response vegetation management
	8.2	8.2.4	Vegetation management enterprise system
	8.2	8.2.5	Quality assurance / quality control
	8.2	8.2.6	Open work orders
	8.2	8.2.7	Workforce Planning
Wildfire Mitigation Strategy Development	7	7	Wildfire Mitigation Strategy Development

Appendix D. Required Templates

Electrical corporations are 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/

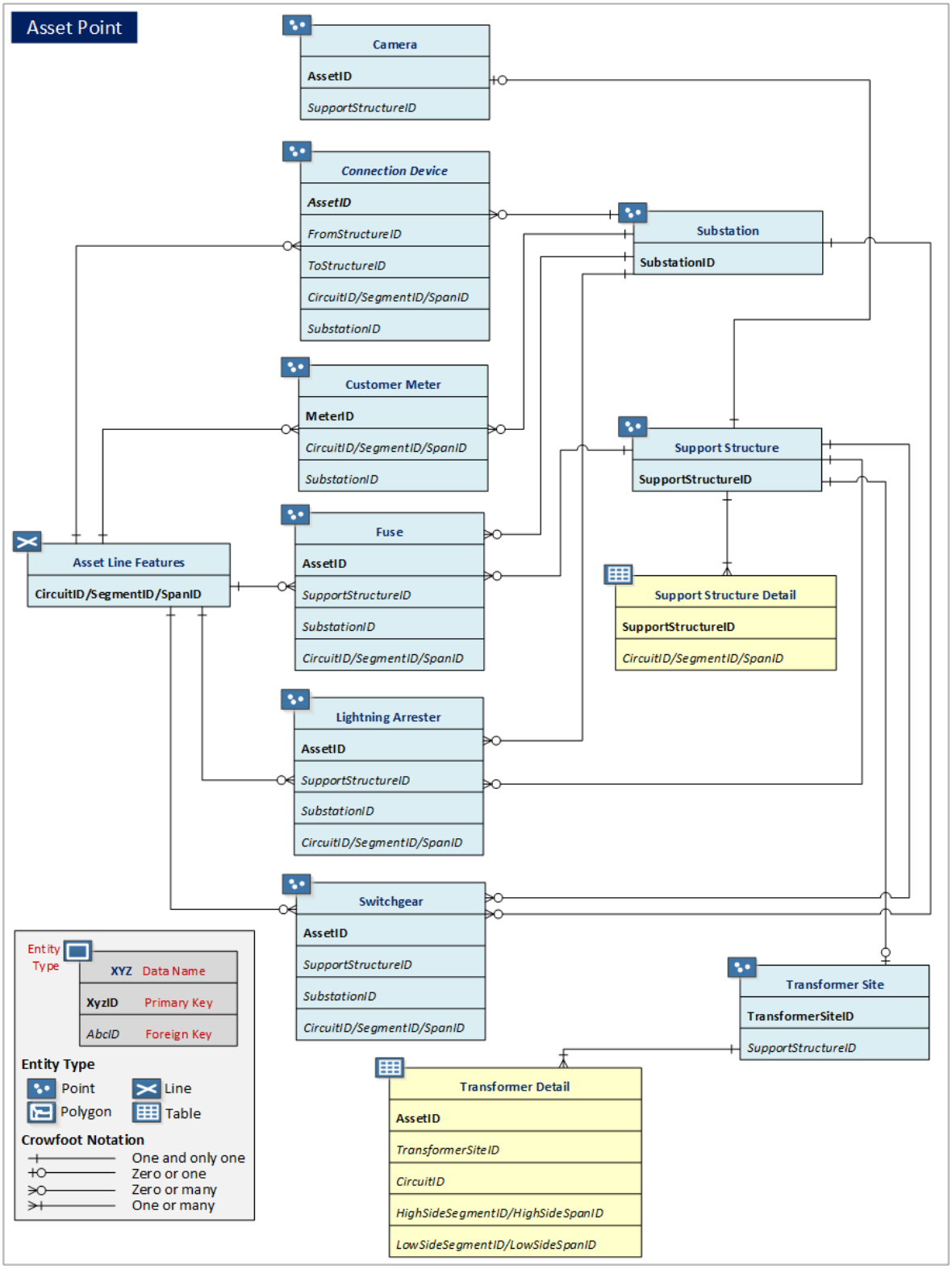
GIS Data Submissions

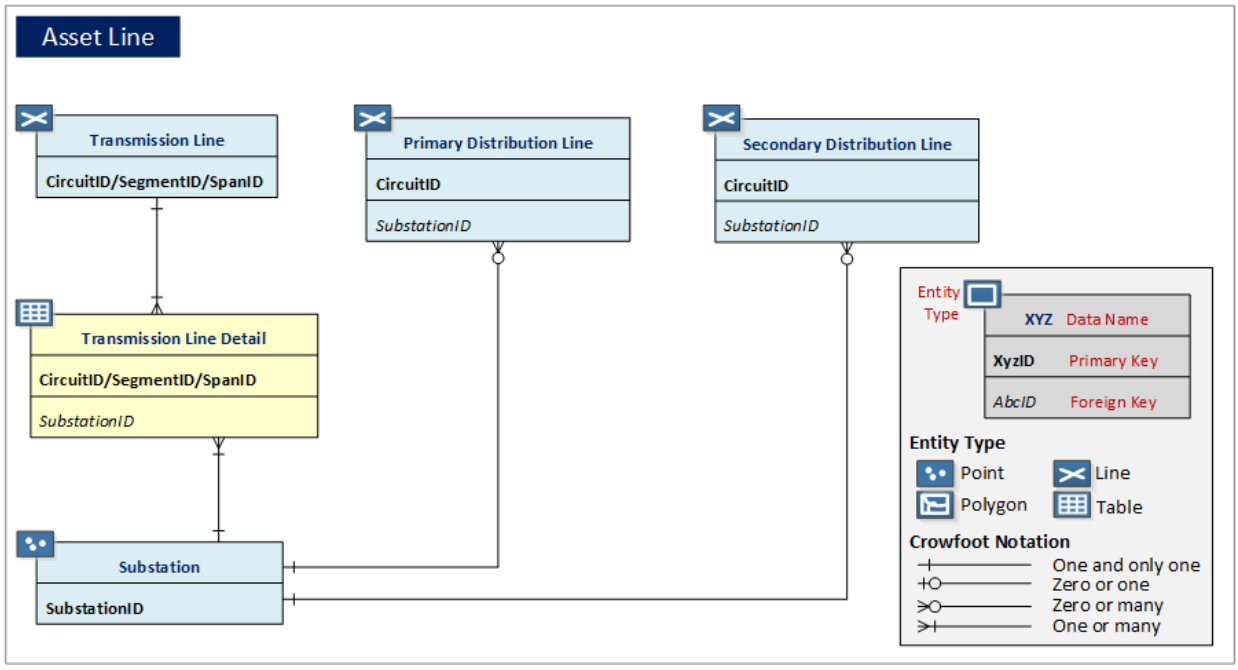
- Template Geodatabase (GDB)

Wildfire Mitigation Data Submissions

- Energy Safety QDR Wildfire Mitigation Data Tables 1- 15 Template

Appendix E. Spatial Data Entity Relationship Diagrams

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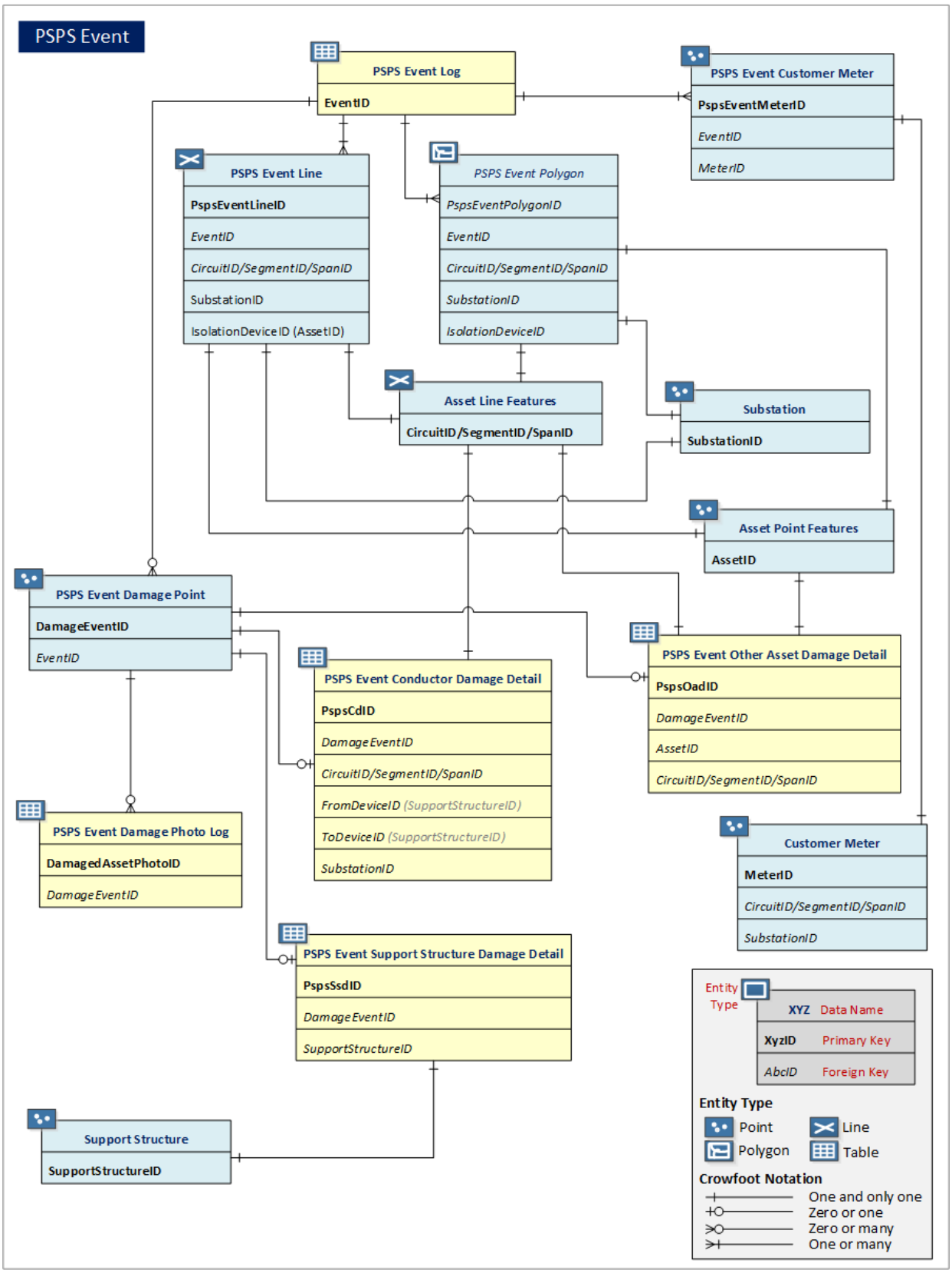
Transmission Line
CircuitID/SegmentID/SpanID
Primary Distribution Line
CircuitID
SubstationID
Secondary Distribution Line
CircuitID
SubstationID
Transmission Line Detail
CircuitID/SegmentID/SpanID
SubstationID
Substation
SubstationID
Entity Type
XYZ Data Name
XyzID Primary Key
AbcID Foreign Key
Entity Type
Point
Line
Polygon
Table
Crowfoot Notation
One and only one
Zero or one
Zero or many
One or many


PSPS Event
PSPS Event Log
EventID
PSPS Event Customer Meter
PspsEventMeterID
EventID
MeterID
PSPS Event Line
PspsEventLineID
EventID
CircuitID/SegmentID/SpanID
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
XyzID Primary Key
AbcID Foreign Key
Entity Type
Point
Line
Polygon
Table
Crowfoot Notation
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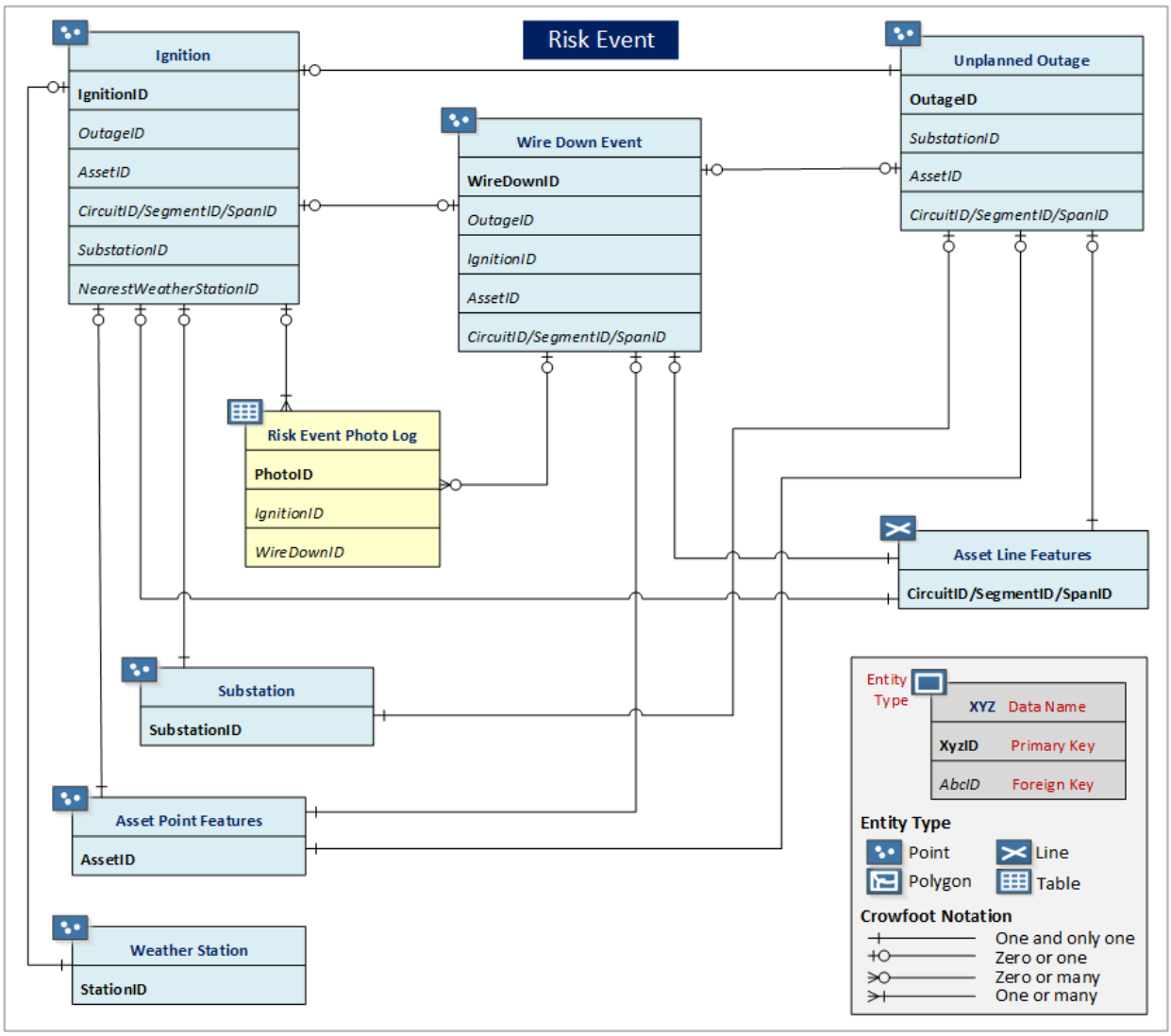
Zero or one
Zero or many
One or many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OutageID
AssetID
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SubstationID
NearestWeatherStationID
Wire Down Event
WireDownID
OutageID
IgnitionID
AssetID
CircuitID/SegmentID/SpanID
Unplanned Outage
OutageID
SubstationID
AssetID
CircuitID/SegmentID/SpanID
Risk Event Photo Log
PhotoID
IgnitionID
WireDownID
Asset Line Features
CircuitID/SegmentID/SpanID
Substation
SubstationID
Asset Point Features
AssetID
Weather Station
StationID
Entity Type
XYZ Data Name
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AbcID Foreign Key
Entity Type
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Polygon
Table
Crowfoot Notation
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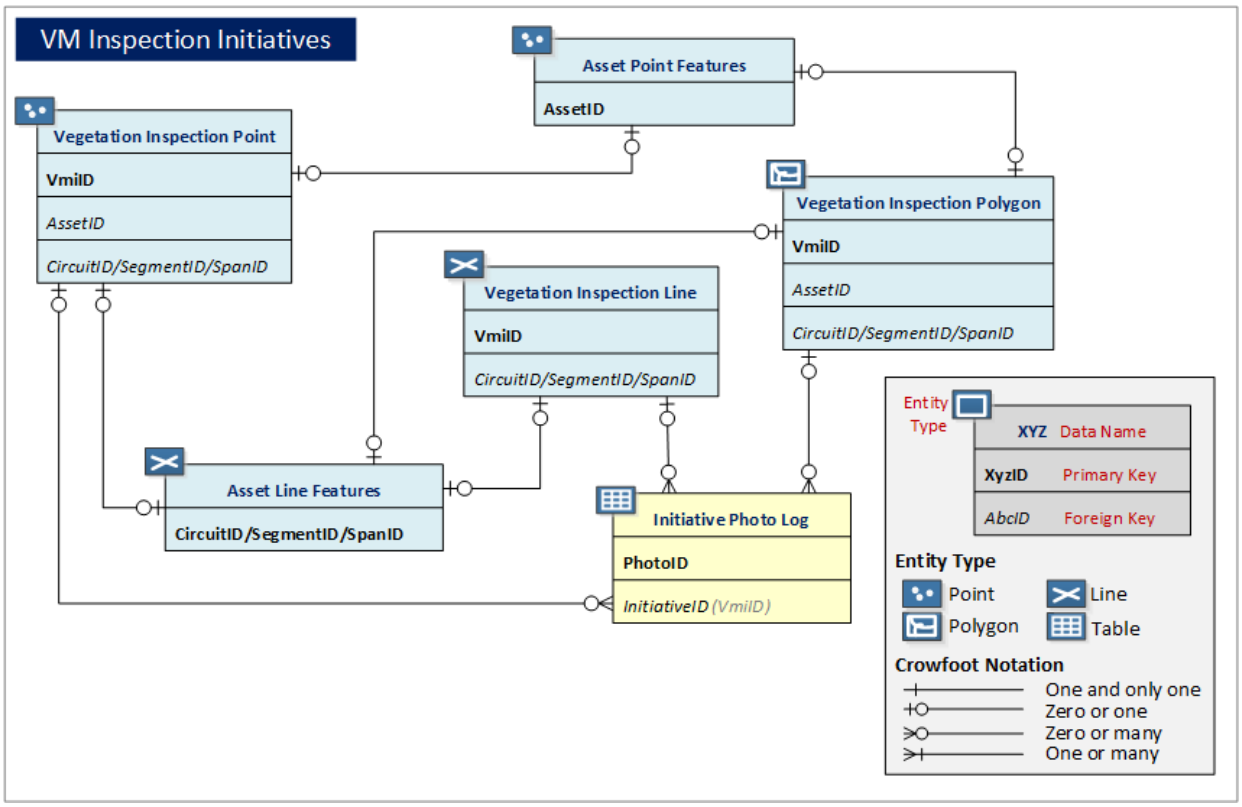
Zero or one
Zero or many
One or many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Asset Point Features
AssetID
Vegetation Inspection Point
VmiID
AssetID
CircuitID/SegmentID/SpanID
Vegetation Inspection Polygon
VmiID
AssetID
CircuitID/SegmentID/SpanID
Vegetation Inspection Line
VmiID
CircuitID/SegmentID/SpanID
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
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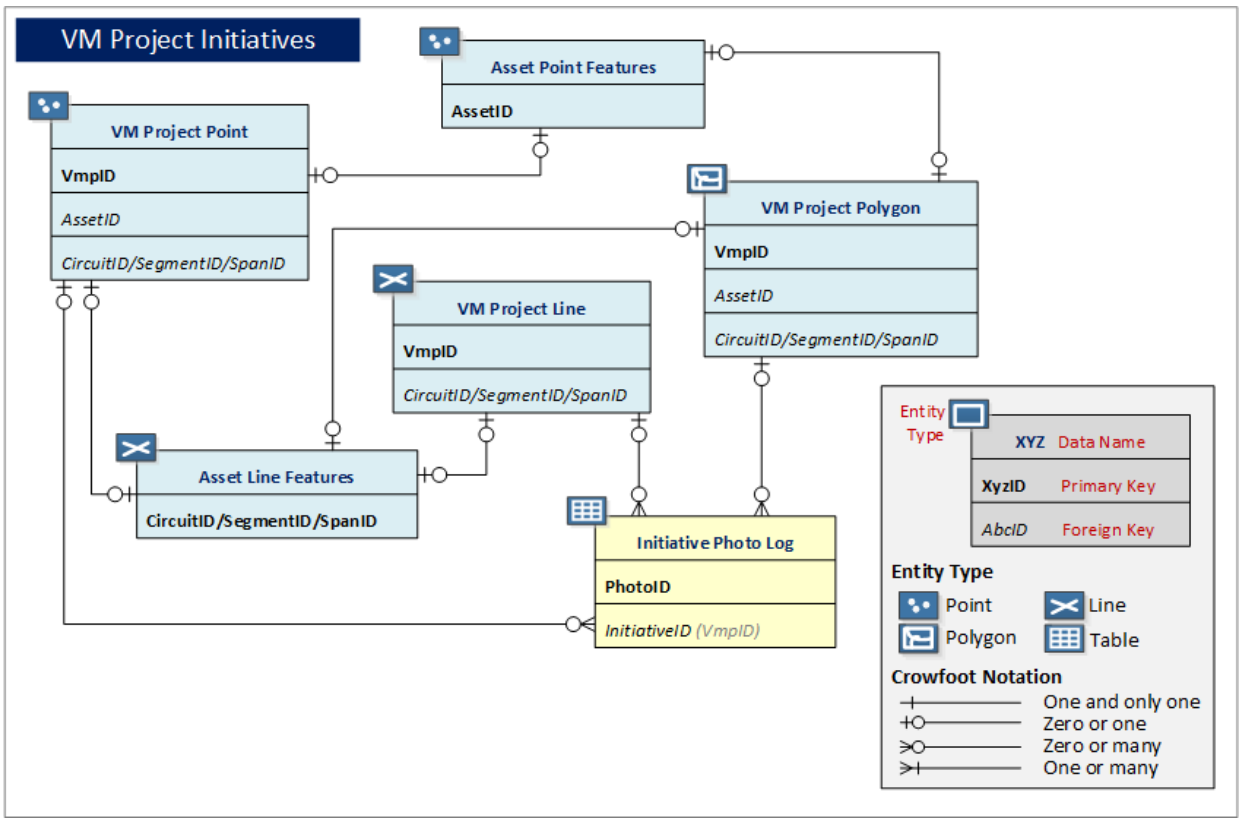
Zero or one
Zero or many
One or many


VM Project Initiatives
Asset Point Features
AssetID
VM Project Point
VmpID
AssetID
CircuitID/SegmentID/SpanID
VM Project Polygon
VmpID
AssetID
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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
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AbcID Foreign Key
Entity Type
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Line
Polygon
Table
Crowfoot Notation
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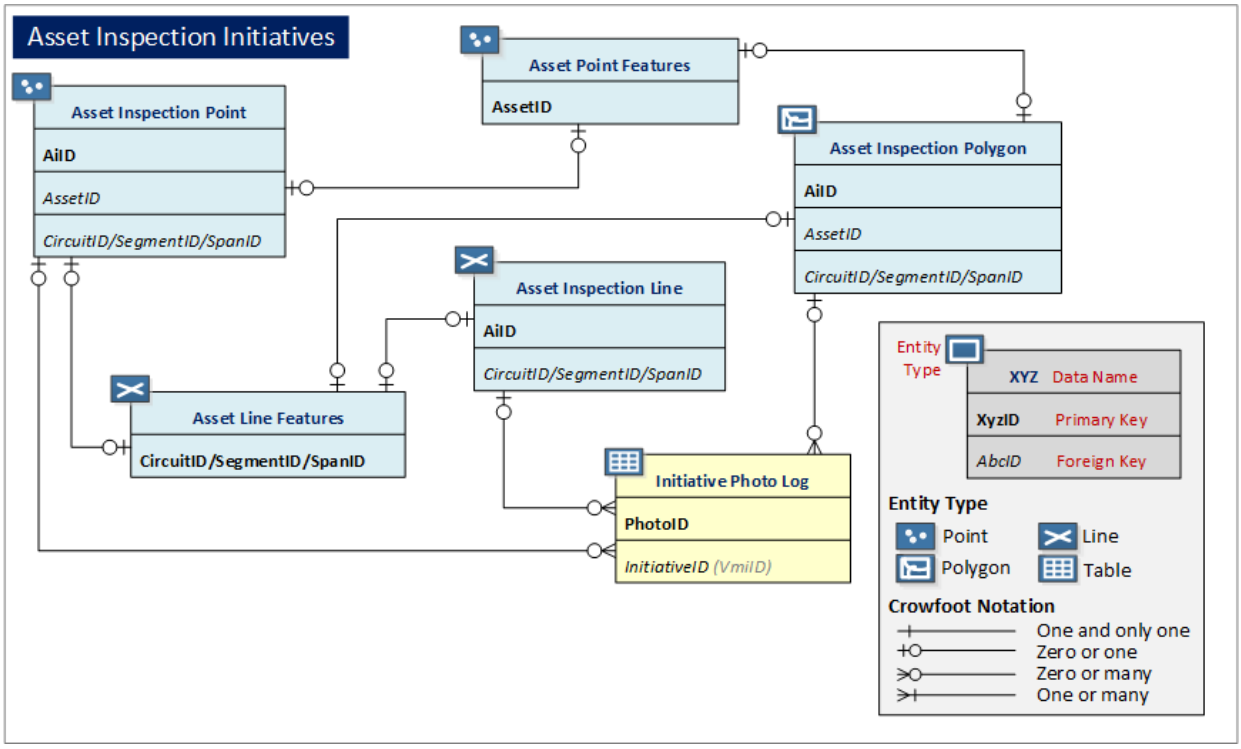
Zero or one
Zero or many
One or many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Asset Point Features
AssetID
Asset Inspection Point
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AssetID
CircuitID/SegmentID/SpanID
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AssetID
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Asset Inspection Line
AiID
CircuitID/SegmentID/SpanID
Asset Line Features
CircuitID/SegmentID/SpanID
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PhotoID
InitiativeID (VmiID)
Entity Type
XYZ Data Name
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AbcID Foreign Key
Entity Type
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Line
Polygon
Table
Crowfoot Notation
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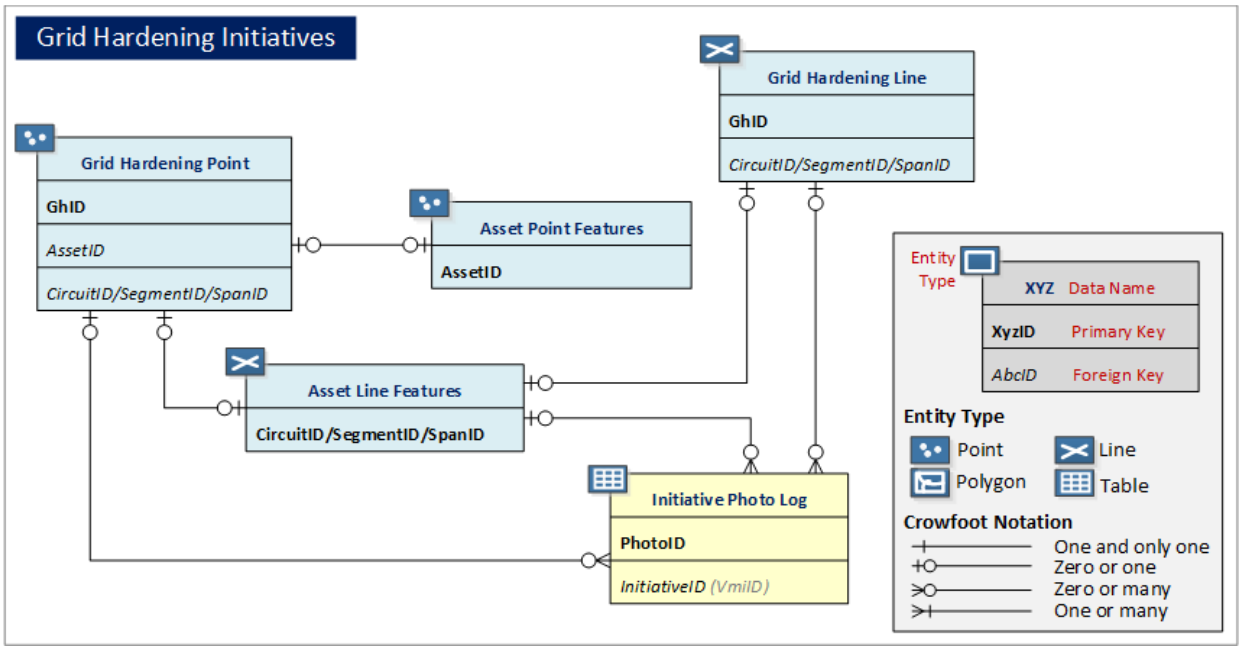
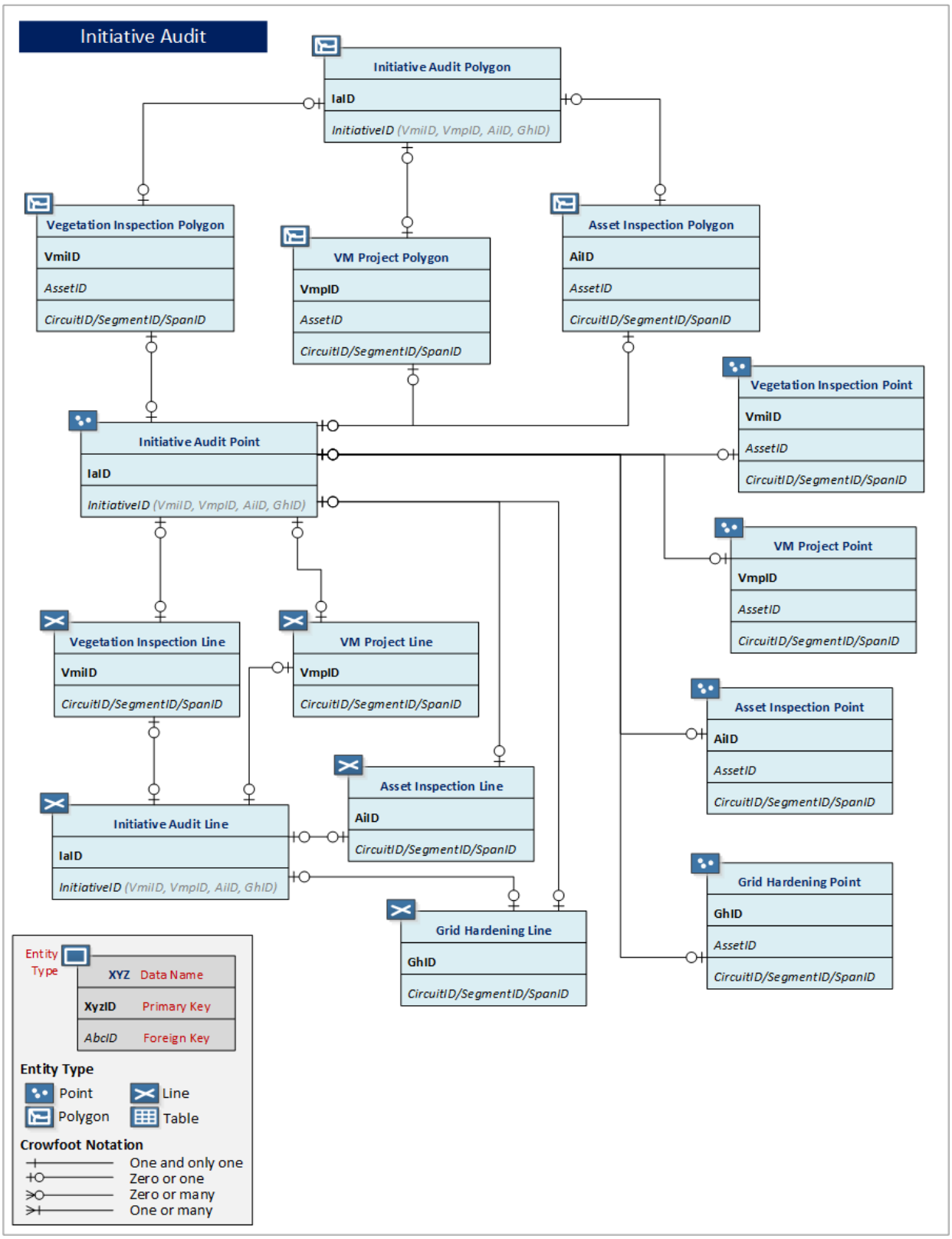
Zero or one
Zero or many
One or many


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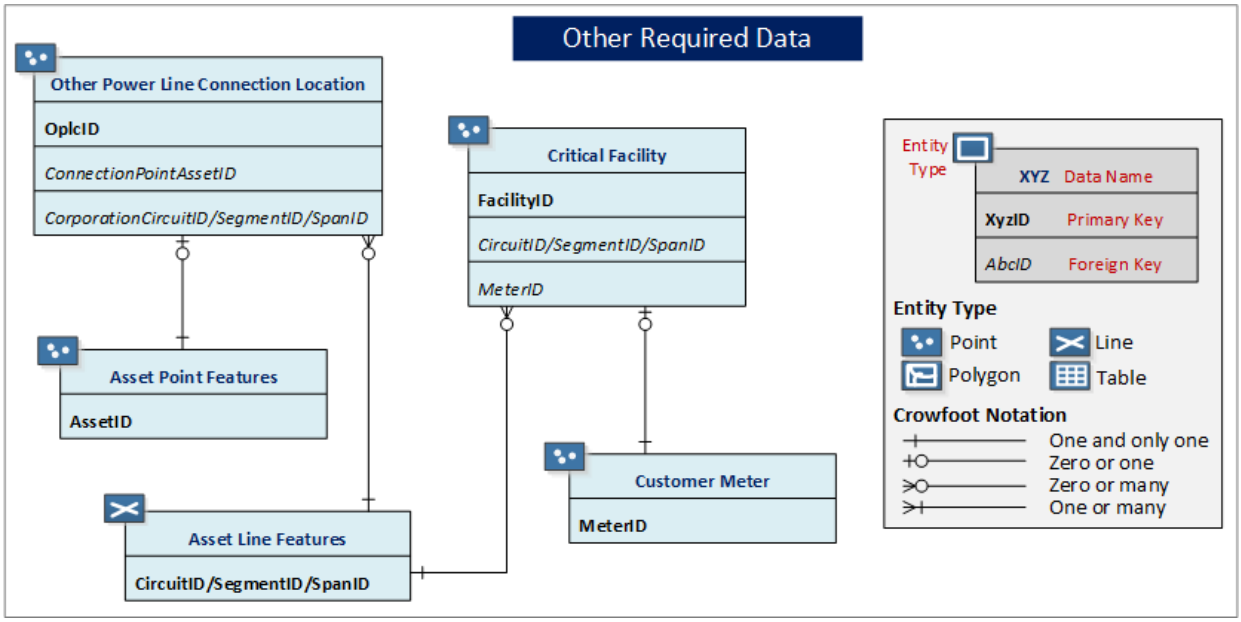
Zero or one
Zero or many
One or many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Asset Point Features
AssetID
Asset Line Features
CircuitID/SegmentID/SpanID
Critical Facility
FacilityID
CircuitID/SegmentID/SpanID
MeterID
Customer Meter
MeterID
Entity Type
XYZ Data Name
XyzID Primary Key
AbcID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

DATA DRIVEN
FORWARD-THINKING
INNOVATIVE
SAFETY FOCUSED

OFFICE OF ENERGY INFRASTRUCTURE SAFETY

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A California Natural Resources Agency
www.energysafety.ca.gov

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