Draft Data Guidelines Workshop

Office of Energy Infrastructure Safety

November 17, 2022





Agenda

AGENDA: Thursday November 17, 2022 | | 1:00 p.m. – 5:00 p.m. PST

	Introduction Introductions, Meeting Logistics, and Opening Remarks
Item 1	**Guidelines Overview** Presentation by Energy Safety Staff Public comments and questions
Item 2	**Geographic Information Systems (GIS) Data** Presentation by Energy Safety Staff Public comments and questions
Item 3	**Wildfire Mitigation Data** Presentation by Energy Safety Staff Public comments and questions
Item 4	**Performance Metrics** Presentation by Energy Safety Staff Public comments and questions
	Closing Remarks

WORKSHOP LOGISTICS

1. Please mute yourself during the session presentations.
2. Verbal comments and questions will be taken at the end of each session.
3. Please raise your hand on Zoom when you have a question or comment.
4. Written comments can be entered in the chat window at any time.
    - All comments will be recorded and evaluated for consideration.
    - Questions will be answered if time permits.
5. Please identify yourself to keep the discussion organized.
6. The workshop will be recorded and posted on Energy Safety's website.

OBJECTIVES OF PUBLIC WORKSHOP

- Relevant Documents
  - Draft Data Guidelines.
  - Draft Template Geodatabase.
  - Draft QDR Wildfire Mitigation Tables 1-13 Template.
  - Wildfire Mitigation Plan (WMP) Performance Metrics.
- Objectives of Workshop
  - Provide Overview of Guidelines Documents and Notable Changes.
  - Receive Input on Guidelines Documents.
  - Answer Clarifying Questions (where possible).

Draft Data Guidelines



CHAPTER STRUCTURE

1. Introduction to Guidelines
2. Submission Standards
3. Geographic Information Systems (GIS) Data
4. Wildfire Mitigation Data

Appendix A – Abbreviation Definitions

Appendix B – Glossary

Appendix C – WMP Initiative Classification

Appendix D – Required Templates



Introduction and Submission Standards

Reporting Period Effective

The data standards described in the document are effective as of the reporting periods indicated below and 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

Data Standard	Reporting Period Effective
Wildfire Mitigation Data	Q4 2022
Geographic Information System Data	Q1 2023

Data Submission Period & Due Date

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.

Reporting Period	Submission Date
Q1 Data	May 1
Q2 Data	August 1
Q3 Data	November 1
Q4 Data	February 1

Data Submission Instructions

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.

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

Data Set	Submission Location
GIS Geodatabase	Assigned SharePoint Location
Photos submitted with spatial data	Assigned SharePoint Location
Spatial Data Status Report	E-Filing Docket
Confidentiality Declaration	E-Filing Docket
Tabular Wildfire Mitigation Data Tables 1 - 12	E-Filing Docket
Tabular Wildfire Mitigation Data Table 13	E-Filing Docket
Revisions to Previously Submitted Data	Same as original submission



Revisions to Previous Data Submissions

Any time an electrical corporation corrects or revises previously submitted actuals or targets, the electrical corporation must submit the corrected data in a separate file named in accordance with the guidance provided. Electrical corporations must not incorporate revisions to previously submitted actuals or targets into submissions for the regular reporting cadence.

Wildfire Mitigation Data Table Revisions

- When submitting revisions to Wildfire Mitigation Data Tables, the revision file must only contain records that are being revised and be named according to the guidance. Unrevised records from the previously reported period must not be included in the revision file.

GIS Data Revisions

- For a feature class containing revised records, the entire corrected feature class must be submitted and named according to the guidance.

Utility Initiative Tracking ID

The electrical corporations must use “Utility Initiative Tracking IDs” (Tracking ID) through the WMP. In previous years, Energy Safety and the electrical corporations tracked mitigation initiatives using the section numbers of the WMP. For example, in the 2022 WMP Updates, “Covered Conduction Installation” was covered in Section 7.3.3.3 and tracked through that number, 7.3.3.3.

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.

Electrical corporations must implement their own tracking system using Tracking IDs to tie objectives, targets, narratives, and initiatives together throughout the WMP and QDR. These IDs are specified in the Energy Safety Data Guidelines. Consistent IDs are to be used in WMP and QDR submissions.

QUESTIONS?



Geographic Information Systems (GIS) Data



Overview

- The purpose of the GIS data is for both the electrical corporations and Energy Safety to have a holistic understanding of electrical corporation infrastructure, risk events, and initiatives including 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.
- These GIS data guidelines comprise version 3.0 of the Energy Safety QDR GIS Data.

GIS Datasets

Feature Datasets

- Asset Points
- Asset Lines
- PSPS Events
- Risk Events
- Initiatives
- Other Required Data

OVERVIEW OF CHANGES – all datasets

- Removed “Confidential” field
- Removed several fields not needed wherever possible: county, district, etc.
- Added ability to report segment IDs for conductor
- Added fields to identify feature to join to in places where unique IDs are requested, where needed

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 OEIS.
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 OEIS.

OVERVIEW OF CHANGES – asset points and lines

- Added risk fields to Support Structure and Asset Line data
- Changed several fields in Transformer feature/table to better reflect how transformers are installed
- New Transmission Line Detail table to capture 1:many relationship to substations
- New Support Structure Detail table to capture 1:many relationship to lines
- Added “Pole Number” field to Support Structure: visible number/ID

OVERVIEW OF CHANGES – PSPS

- Changed requirement for what data to submit for PSPS: all 3 geometries required for all events
- Added vegetation data to damage detail tables
- Elevated vegetation contact to separate category in cause fields
- Moved “Damage Date and Time” from damage detail tables to Damage Point

OVERVIEW OF CHANGES – Risk Events

- Consolidated outages into single feature with fields for class, veg. data
- Eliminated Risk Event Asset Log – added “Asset ID” and “Equipment Feature” fields to each event feature
- Simplified ID fields in Photo Log, added field “Is Photo Before or After”
- Added “Dig-in”*, “Lightning”, and “Fire”** to options for cause fields
- Added “Customer Request”, “Government Agency Request”, and “Emergency Repairs” to “Basic Cause” options for outages

*Not for Wire Down
**Not for Ignition

OVERVIEW OF CHANGES – Initiatives

- Removed log tables and integrated attributes into corresponding feature classes
- Added “Initiative Class” field (discretionary vs. required)
- Added “Data Capture Sensor Type” to inspection features and cleaned up Inspection Method field options
- Added Initiative Audit point/line/polygon features (relate to any initiative)
- Added field for clearance distance to VM project initiatives
- Added 3 fields for number of findings to asset inspection features (GO 95 levels)

OVERVIEW OF CHANGES – Other Required Data

- New feature: High Wind Warning Day Polygon

QUESTIONS?



Wildfire Mitigation Data



Overview

- The guidance provided in the section together with the required Wildfire Mitigation Data Tables Template represents the Wildfire Mitigation Data schema.
- The electrical corporation must report performance on each metric contained in each sheet of the Energy Safety QDR Wildfire Mitigation Data Tables Template.
- The data submitted by the electrical corporation in the wildfire mitigation data tables must be internally consistent…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.



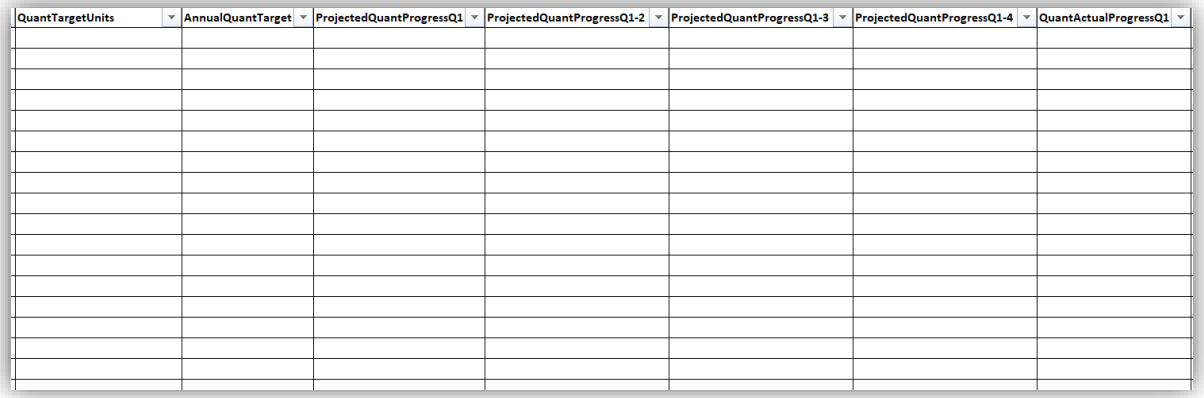
Wildfire Mitigation Tables 1-13

- Table 1 - Quarterly Initiative Update (QIU)
- Table 2 - Recent Performance on Outcome Metrics
- Table 3 - List and Description of Additional Metrics
- Table 4 - Weather Patterns
- Table 5 - Risk Event Drivers
- Table 6 - Ignition Drivers
- Table 7 - State of Service Territory and Utility Equipment
- Table 8 - Location of Utility Equipment Additions or Removal
- Table 9 - Location of Utility Infrastructure Upgrades
- Table 10 - Recent Use of PSPS and Other PSPS Metrics
- Table 11 - Mitigation Initiative Financials
- Table 12 - Midyear and End-of-Year Targets
- Table 13 - Open Work Orders / Notifications

Wildfire Mitigation Data – Basic Structure of Guidelines

Two kinds of tables:

- **Table 1 & Table 13**
  - Traditional table design
  - Fields and records
  - Schema format like GIS section



QuantTargetUnits	AnnualQuantTarget	ProjectedQuantProgressQ1	ProjectedQuantProgressQ1-2	ProjectedQuantProgressQ1-3	ProjectedQuantProgressQ1-4	QuantActualProgressQ1

Field Name	Field Description	Field Value Constraints
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

Wildfire Mitigation Data – Basic Structure of Guidelines

Two kinds of tables:

- **Tables 2—12**
  - Excel driven organization
  - Pre-populated fields
  - Only editable fields in schema

Table 2: Recent performance on outcome metrics

Metric type	#	Outcome metric name	Wind Warning Status	HFTD Tier	Line Type	Inspection Type	Inspection Meth
		Number of ignitions	HWW & RFW	Non- HFTD	N/A	N/A	N/A
		Number of ignitions	None	Non- HFTD	N/A	N/A	N/A
15. Grid condition findings from inspection	15.d.2.a.i	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Patrol Inspection	Drone
15. Grid condition findings from inspection	15.d.2.a.i	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Patrol Inspection	Aerial
15. Grid condition findings from inspection	15.d.2.a.i	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Patrol Inspection	LiDAR
15. Grid condition findings from inspection	15.d.2.a.i	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Patrol Inspection	other
15. Grid condition findings from inspection	15.d.2.a.ii	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Detailed Inspection	Drone
15. Grid condition findings from inspection	15.d.2.a.ii	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Detailed Inspection	Aerial
15. Grid condition findings from inspection	15.d.2.a.ii	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Detailed Inspection	LiDAR
15. Grid condition findings from inspection	15.d.2.a.ii	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Detailed Inspection	other
15. Grid condition findings from inspection	15.d.2.a.iii	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Other Inspection	Drone
15. Grid condition findings from inspection	15.d.2.a.iii	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Other Inspection	Aerial
15. Grid condition findings from inspection	15.d.2.a.iii	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Other Inspection	LiDAR
15. Grid condition findings from inspection	15.d.2.a.iii	Number of assets / structures inspected	N/A	HFTD Tier 2	Distribution	Other Inspection	other

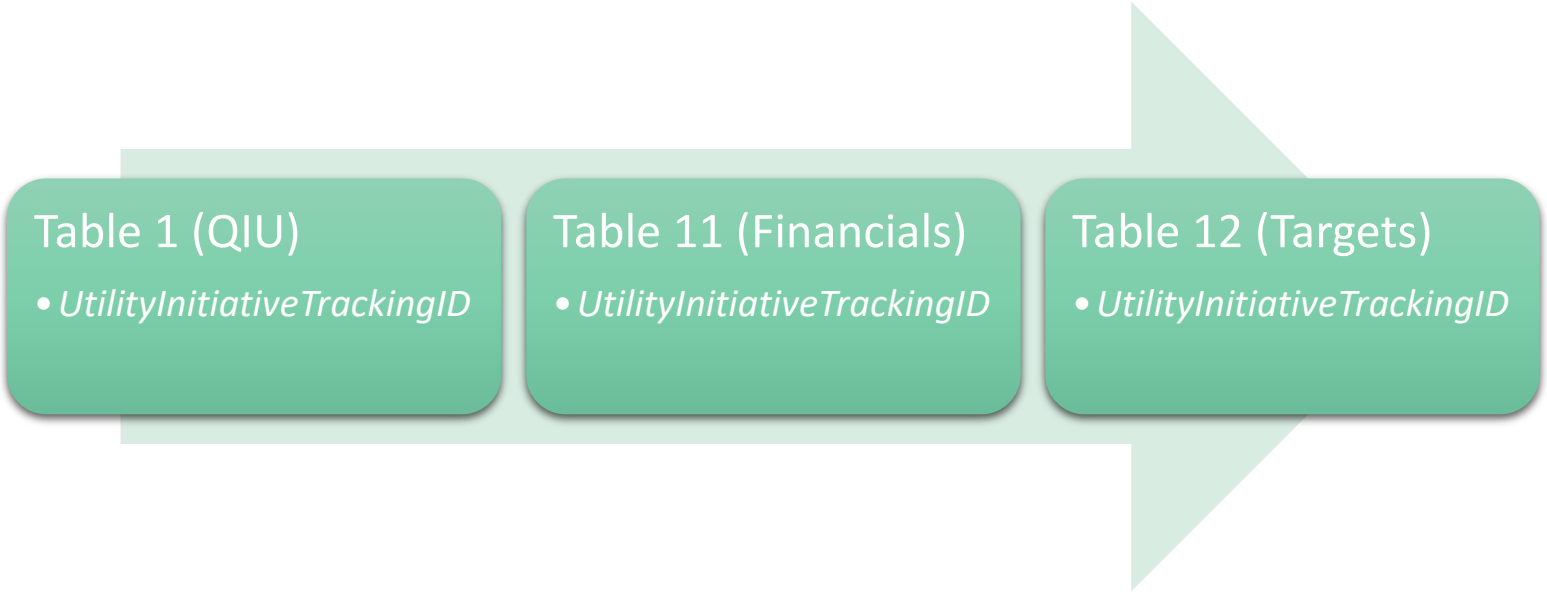
Field Name	Field Description	Field Value Constraints
Year and quarter (i.e., Q1, 2021)	Values for the indicated metric for each specified year and quarter	Numeric ≥ 0
Comments	Provide any necessary comments.	Text
Blank meaning	See section 4.2 Overall Data File Requirements.	Text

Q1 2025	Q2 2025	Q3 2025	Q4 2025	Unit(s)	Comments	Blank Meaning
				Number of ignitions		
				Number of ignitions		
				# of assets / structures (such as poles, transformers, etc.) inspected by the utility		
				# of assets / structures (such as poles, transformers, etc.) inspected by the utility		
				# of assets / structures (such as poles, transformers, etc.) inspected by the utility		
				# of assets / structures (such as poles, transformers, etc.) inspected by the utility		
				# of assets / structures (such as poles, transformers, etc.) inspected by		

Wildfire Mitigation Data – UtilityInitiativeTrackingID

UtilityInitiativeTrackingID

- Links initiatives across non-spatial tables



Wildfire Mitigation Data - Table 1

Table 1: Quarterly Initiative Update Data (QIU)

- Captures progress and targets for current year.
- Qualitative and quantitative data
- Changes (see table).
- Fill out as outlined in guidelines.

QIU 2022 Metric Type	QIU 2023 (Table 1) Metric Type	Status
N/A	InitiativeClassification	New
N/A	ProjectStartDate	New
N/A	ProjectEndDate	New
N/A	InitiativeDescription	New
N/A	InitativieObjecvtive	New
InitiativeActivityID	*UtilityInitiativeTrackingID*	*Modified*
N/A	RiskTargetReduction	New
N/A	MidYearTarget (Yes/No)	New
Supporting File links	N/A	Removed

Wildfire Mitigation Data - Table 2

Table 2: Recent Performance on Outcome Metrics

- Changes:
  - Combined old Table 1 and Table 2
  - Metrics added/Removed
  - Broken out by HFTD, Line Type, Wind Warning Status, Inspection Type and Method
- Fill out as outlined in template and guidelines.

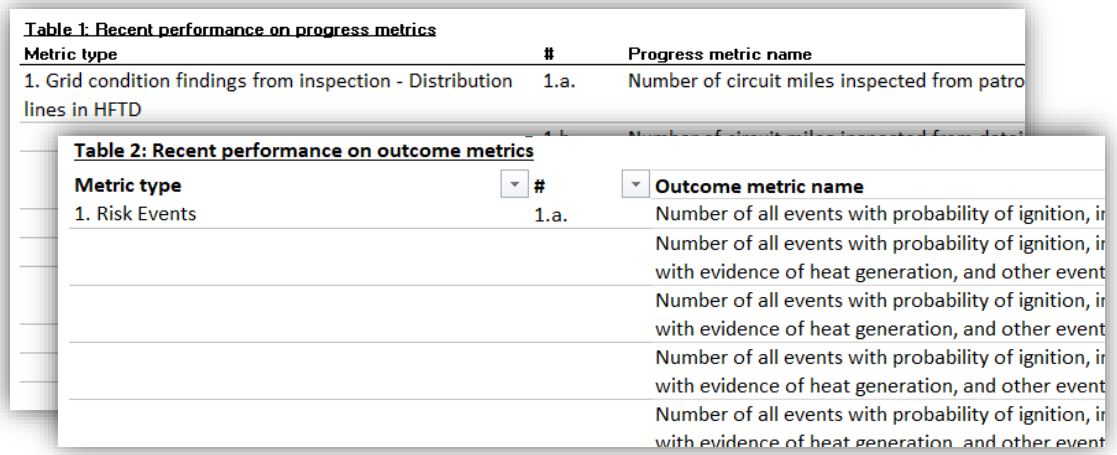


Table 1: Recent performance on progress metrics

Metric type	#	Progress metric name
1. Grid condition findings from inspection - Distribution lines in HFTD	1.a.	Number of circuit miles inspected from patro

Table 2: Recent performance on outcome metrics

Metric type	#	Outcome metric name
1. Risk Events	1.a.	Number of all events with probability of ignition, ir
		Number of all events with probability of ignition, ir with evidence of heat generation, and other event
		Number of all events with probability of ignition, ir with evidence of heat generation, and other event
		Number of all events with probability of ignition, ir with evidence of heat generation, and other event
		Number of all events with probability of ignition, ir with evidence of heat generation, and other event

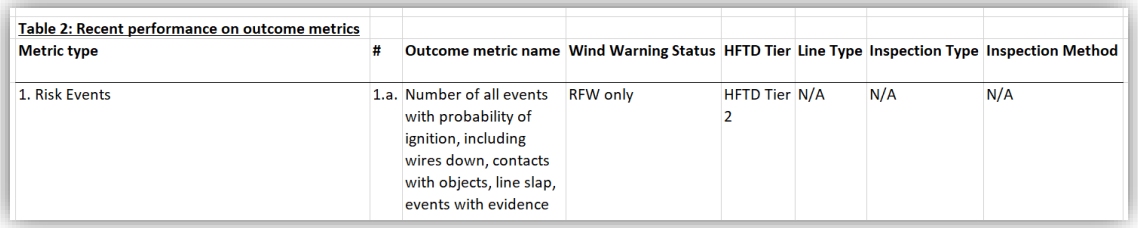


Table 2: Recent performance on outcome metrics

Metric type	#	Outcome metric name	Wind Warning Status	HFTD Tier	Line Type	Inspection Type	Inspection Method
1. Risk Events	1.a.	Number of all events with probability of ignition, including wires down, contacts with objects, line slap, events with evidence	RFW only	HFTD Tier 2	N/A	N/A	N/A

Wildfire Mitigation Data - Table 2

Table 2: Recent performance on outcome metrics:

- Comments on new metrics
- Certain metrics will not be required for submission until Q1 of 2023
- Said metrics can be submitted as blank for Q4 2022
- Detailed list of specific metrics to be forthcoming

Wildfire Mitigation Data - Table 3

Table 3: List and description of additional metrics:

- Virtually unchanged from last year except for years listed and blank meaning field
- Fill out as needed

Table 3: List and description of additional metrics

Metric	Definition	Purpose	Assumptions made to connect metric to purpose	Third-party validation (if any)	2015

Wildfire Mitigation Data - Table 4

Table 4: Weather Patterns:

- Red Flag Warning (RFW), Wind Warning (WWS), RFW & WWS, Fire Potential Index (FPI) overhead circuit mile days
- All broken out by HFTD tiers 2, 3 and non-HFTD

Table 6: Weather patterns

Metric type	#	Outcome metric name	2015
1. Red Flag Warning Overhead circuit mile Days	1.a.	Red Flag Warning Overhead circuit mile days - entire utility territory	
	1.b.	Red Flag Warning Overhead circuit mile days - HFTD Zone 1	
	1.c.	Red Flag Warning Overhead circuit mile days - HFTD Tier 2	
	1.d.	Red Flag Warning Overhead circuit mile days - HFTD Tier 3	
	1.e.	Red Flag Warning Overhead circuit mile days - Non-HFTD	
2. Wind conditions	2.a.	High wind warning overhead circuit mile days	
3. Other	3.a.	Other relevant weather pattern metrics tracked (add additional rows as needed)	

Table 4: Weather patterns

Metric type	#	Outcome metric name	2015
1. Red flag warning overhead circuit mile days	1.a.	Red flag warning overhead circuit mile days - HFTD tier 2	
	1.b.	Red flag warning overhead circuit mile days - HFTD tier 3	
	1.c.	Red flag warning overhead circuit mile days - non-HFTD	
2. Wind conditions overhead circuit mile days	2.a.	High wind warning overhead circuit mile days - HFTD tier 2	
	2.b.	High wind warning overhead circuit mile days - HFTD tier 3	
	2.c.	High wind warning overhead circuit mile days - non-HFTD	
3. Red flag warning and wind condition overhead circuit mile days	3.a.	Red flag warning and high wind warning overhead circuit mile days - HFTD tier 2	
	3.b.	Red flag warning and high wind warning overhead circuit mile days - HFTD tier 3	
	3.c.	Red flag warning and high wind warning overhead circuit mile days - non-HFTD	
4. Fire potential index overhead circuit mile days	4.a.	Fire potential index circuit mile days - HFTD tier 2	
	4.b.	Fire potential index circuit mile days - HFTD tier 3	
	4.c.	Fire potential index circuit mile days - non-HFTD	
5. Other	5.a.	Other relevant weather pattern metrics tracked (add additional rows as needed)	

Wildfire Mitigation Data - Table 5

Table 5: Risk event drivers:

- Wire Down Events and Outages (excluding ignitions).
- Largest changes are the separation of line types from metric type fields.
- All broken out by HFTD tiers 2, 3 and non-HFTD

Table 7.1 2022	Risk Event category **Line Type**	Cause category **Line Type**	#	Sub-cause category **Line Type**



Table 5 2023	Risk event category	Metric type	#	Risk event driver	**Line Type**	**HFTD Tier**

Wildfire Mitigation Data - Table 6

Table 6: Ignition drivers:

- Minimal changes from last year's version (Table 7.2).
- All broken out by line type, HFTD tiers 2, 3 and non-HFTD.
- HFTD Zone 1 removed.

Metric type	Ignition driver	Line Type	HFTD Tier
1. Contact from object	Animal contact	Transmission	HFTD Tier 2
	Balloon contact	Distribution	HFTD Tier 3
	Other contact from object		Non-HFTD
	Veg. contact		
	Vehicle contact		
2. Equipment / facility failure	Anchor / guy damage or failure		
	Capacitor bank damage or failure		
	Conductor damage or failure		
	Connection device damage or failure		
	Crossarm damage or failure		
	Fuse damage or failure		
	Insulator and brushing damage or failure		
	Lightning arrestor damage or failure		
	Other		
	Pole damage or failure		
	Recloser damage or failure		
	Sectionalizer damage or failure		
	Splice damage or failure		
	Switch damage or failure		
	Transformer damage or failure		
	Voltage regulator / booster damage or failure		
3. Wire-to-wire contact	Wire-to-wire contact		
4. Contamination	Contamination		
5. Utility work / Operation	Utility work / Operation		
6. Vandalism / Theft	Vandalism / Theft		
7. Other	All Other		
8. Unknown	Unknown		

Wildfire Mitigation Data - Table 7

Table 7: State of service territory and utility equipment:

- Area Type, WUI Status, Line Type, HFTD Tiers (Zone 1 removed) now independent fields.
- Circuit miles (**underground & overhead**), # of customers, critical facilities, substations, weather stations are now metric types

Table 8: State of service territory and utility equipment

Metric type	#	Outcome metric name	Non-HFTD 2015	HFTD Zone 1 2015	HFTD Tier 2 2015
1. State of service territory and equipment in urban	1.a.	Circuit miles (including WUI and non-WUI)			
	1.b.	Circuit miles in WUI			
	1.c.	Number of critical facilities (including WUI and non-WUI)			
	1.d.	Number of critical facilities in WUI			
	1.e.	Number of customers (including WUI and non-WUI)			
	1.f.	Number of customers in WUI			
	1.g.	Number of customers belonging to access and functional needs populations (including WUI and non-WUI)			
	1.h.	Number of customers belonging to access and functional needs populations in WUI			
	1.i.	Circuit miles of overhead transmission lines (including WUI and non-WUI)			
	1.j.	Circuit miles of overhead transmission lines in WUI			
	1.k.	Circuit miles of overhead distribution lines (including WUI and non-WUI)			
	1.l.	Circuit miles of overhead distribution lines in WUI			
	1.m.	Number of substations (including WUI and non-WUI)			
	1.n	Number of substations in WUI			
	1.o.	Number of weather stations (including WUI and non-WUI)			
	1.p.	Number of weather stations in WUI			

Table 7: State of service territory and utility equipment

Metric type	#	Line Type	HFTD Tier	Area Type	WUI Status	2015
1. Overhead circuit miles	1.d.0.a.i	Distribution	Non-HFTD	Urban	WUI	
	1.d.0.a.ii	Distribution	Non-HFTD	Urban	Non-WUI	
	1.d.0.b.i	Distribution	Non-HFTD	Rural	WUI	
	1.d.0.b.ii	Distribution	Non-HFTD	Rural	Non-WUI	
	1.d.0.c.i	Distribution	Non-HFTD	Highly rural	WUI	
	1.d.0.c.ii	Distribution	Non-HFTD	Highly rural	Non-WUI	
2. Underground circuit miles	2.d.0.a.i	Distribution	Non-HFTD	Urban	WUI	
	2.d.0.a.ii	Distribution	Non-HFTD	Urban	Non-WUI	
	2.d.0.b.i	Distribution	Non-HFTD	Rural	WUI	
	2.d.0.b.ii	Distribution	Non-HFTD	Rural	Non-WUI	
	2.d.0.c.i	Distribution	Non-HFTD	Highly rural	WUI	
	2.d.0.c.ii	Distribution	Non-HFTD	Highly rural	Non-WUI	

Wildfire Mitigation Data - Table 8

Table 8: Location of utility equipment additions or removal:

- Similar to Table 7
- Line Type, WUI Status, Area Type, and HFTD Tiers are standalone fields
- Circuit miles, substations, weather stations now metric types

Table 9: Location of actual and planned utility equipment additions or removal year over year			Non-HFTD	HFTD Zone 1
Metric type	**#**	**Outcome metric name**	**2020**	**2020**
1. Planned utility equipment net addition (or removal) year over year - in urban areas	1.a.	Circuit miles of overhead transmission lines (including WUI and non-WUI)		
	1.b.	Circuit miles of overhead distribution lines (including WUI and non-WUI)		
	1.c.	Circuit miles of overhead transmission lines in WUI		
	1.d.	Circuit miles of overhead distribution lines in WUI		
	1.e.	Number of substations (including WUI and non-WUI)		
	1.f.	Number of substations in WUI		
	1.g.	Number of weather stations (including WUI and non-WUI)		
	1.h.	Number of weather stations in WUI		

Table 8: Location of utility equipment additions or removal						
Metric type	**#**	**Line Type**	**HFTD Tier**	**Area Type**	**WUI Status**	**2020**
1. Planned net addition (or removal) - overhead circuit miles	1.d.0.a.i	Distribution	Non-HFTD	Urban	WUI	
	1.d.0.a.ii	Distribution	Non-HFTD	Urban	Non-WUI	
	1.d.0.b.i	Distribution	Non-HFTD	Rural	WUI	
	1.d.0.b.ii	Distribution	Non-HFTD	Rural	Non-WUI	
	1.d.0.c.i	Distribution	Non-HFTD	Highly rural	WUI	

Wildfire Mitigation Data - Table 9

Table 9: Location of utility infrastructure upgrades:

- Similar to Tables 7 & 8
- Line Type, WUI Status, Area Type, and HFTD Tiers are standalone fields
- Circuit miles, substations, weather stations now metric types

Utility	X
Table No.	9
Date Modified	

						Actual			Projected			
Table 9: Location of utility infrastructure upgrades												
Metric type	**#**	**Line Type**	**HFTD Tier**	**Area Type**	**WUI Status**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**Unit(s)**
1. Number of overhead circuit miles planned for upgrade	1.d.0.a.i	Distribution	Non-HFTD	Urban	WUI							Circuit miles
	1.d.0.a.ii	Distribution	Non-HFTD	Urban	Non-WUI							Circuit miles
	1.d.0.b.i	Distribution	Non-HFTD	Rural	WUI							Circuit miles
	1.d.0.b.ii	Distribution	Non-HFTD	Rural	Non-WUI							Circuit miles
	1.d.0.c.i	Distribution	Non-HFTD	Highly rural	WUI							Circuit miles
	1.d.0.c.ii	Distribution	Non-HFTD	Highly rural	Non-WUI							Circuit miles
	1.d.2.a.i	Distribution	HFTD Tier 2	Urban	WUI							Circuit miles
	1.d.2.a.ii	Distribution	HFTD Tier 2	Urban	Non-WUI							Circuit miles
	1.d.2.b.i	Distribution	HFTD Tier 2	Rural	WUI							Circuit miles
	1.d.2.b.ii	Distribution	HFTD Tier 2	Rural	Non-WUI							Circuit miles
	1.d.2.c.i	Distribution	HFTD Tier 2	Highly rural	WUI							Circuit miles
	1.d.2.c.ii	Distribution	HFTD Tier 2	Highly rural	Non-WUI							Circuit miles

Wildfire Mitigation Data - Table 10

Table 10: Recent use of PSPS and other PSPS metrics:

- Metrics added, removed, and modified
- Wind Warning Status field added for Recent use of PSPS and fast-trip

Table 11: Recent use of PSPS and other PSPS metrics (2022)			Table 10: Recent use of PSPS and other PSPS metrics (2023)			
Metric Type	Sub-Metric Name	Sub-Metric Type	Metric Type	Sub-Metric Name	Sub-Metric Type	Status
1. Recent use of PSPS	Outcome metric name	N/A	1. Recent use of PSPS and fast-trip	Outcome metric name	Frequency of fast-trip events (total)	New
1. Recent use of PSPS	Outcome metric name	N/A	1. Recent use of PSPS and fast-trip	Outcome metric name	Circuit mile days with fast-trip settings enabled (total)	New
2. Customer hours of PSPS and other outages	Outcome metric name	Customer hours of unplanned outages, not including PSPS (total)	2. Customer hours of PSPS and other outages	Outcome metric name	Customer hours of unplanned outages, not including PSPS or fast-trip (total)	Modified
2. Customer hours of PSPS and other outages	Outcome metric name	N/A	2. Customer hours of PSPS and other outages	Outcome metric name	Customer hours of unplanned outages resulting from fast-trip	New
4. Community outreach of PSPS metrics	Outcome metric name	% of customers notified prior to a PSPS event impacting them	4. Community outreach of PSPS metrics	Outcome metric name	# of customers notified prior to a PSPS event impacting them	Modified
4. Community outreach of PSPS metrics	Outcome metric name	% of medical baseline customers notified prior to a PSPS event impacting them	4. Community outreach of PSPS metrics	Outcome metric name	# of medical baseline customers notified prior to a PSPS event impacting them	Modified
5. Other PSPS metrics	Outcome metric name	N/A	5. Other PSPS metrics	Outcome metric name	Number of PSPS events in which a notification was sent but no de-energization occurred	New
5. Other PSPS metrics	Outcome metric name	N/A	5. Other PSPS metrics	Outcome metric name	Average number of customers located on de-energized circuit	New
5. Other PSPS metrics	Outcome metric name	N/A	5. Other PSPS metrics	Outcome metric name	Customer hours of PSPS per HWW OH circuit mile day	New
5. Other PSPS metrics	Outcome metric name	N/A	5. Other PSPS metrics	Outcome metric name	Customer hours of PSPS per high FPIOH circuit mile day	New
5. Other PSPS metrics	Outcome metric name	N/A	5. Other PSPS metrics	Outcome metric name	Median time between de-energization, due to PSPS, and inspection of a circuit segment	New
5. Other PSPS metrics	Outcome metric name	N/A	5. Other PSPS metrics	Outcome metric name	95 percentile of time between de-energization, due to PSPS, and inspection of a circuit segment	New
5. Other PSPS metrics	Outcome metric name	N/A	5. Other PSPS metrics	Outcome metric name	Median time between de-energization, due to fast-trip, and inspection of a circuit segment	New
5. Other PSPS metrics	Outcome metric name	N/A	5. Other PSPS metrics	Outcome metric name	95 percentile of time between de-energization, due to fast-trip, and inspection of a circuit segment	New
5. Other PSPS metrics	Outcome metric name	N/A	5. Other PSPS metrics	Outcome metric name	Number of risk events occurring on a de-energized circuit	New

Wildfire Mitigation Data - Table 11

Table 11: Mitigation initiative financials:

- Metrics removed and added
- UtilityInitiativeTrackingID

(2022) Table 12: Mitigation initiative financials Metric Name	(2023) Table 11: Mitigation initiative financials Metric Name	Status
Metric type	N/A	Removed
WMP Table # / Category	WMPInitiativeCategory	Modified
WMP Initiative #	N/A	Removed
Initative activity	WMPInitiativeActivity	Modified
N/A	*UtilityInitiativeTrackingID*	New
Estimated RSE territory-wide	N/A	Removed
Estimated RSE in non-HFTD region	N/A	Removed
Estimated RSE in HFTD Zone 1	N/A	Removed
Estimated RSE in HFTD Tier 2	N/A	Removed
Estimated RSE in HFTD Tier 3	N/A	Removed
N/A	Blank Meaning	New

Actual						
CAPEX ($ thousands)		OPEX ($ thousands)		Line miles treated		Alternative units (if used)
Territory	HFTD	Territory	HFTD	Territory	HFTD	
2020						

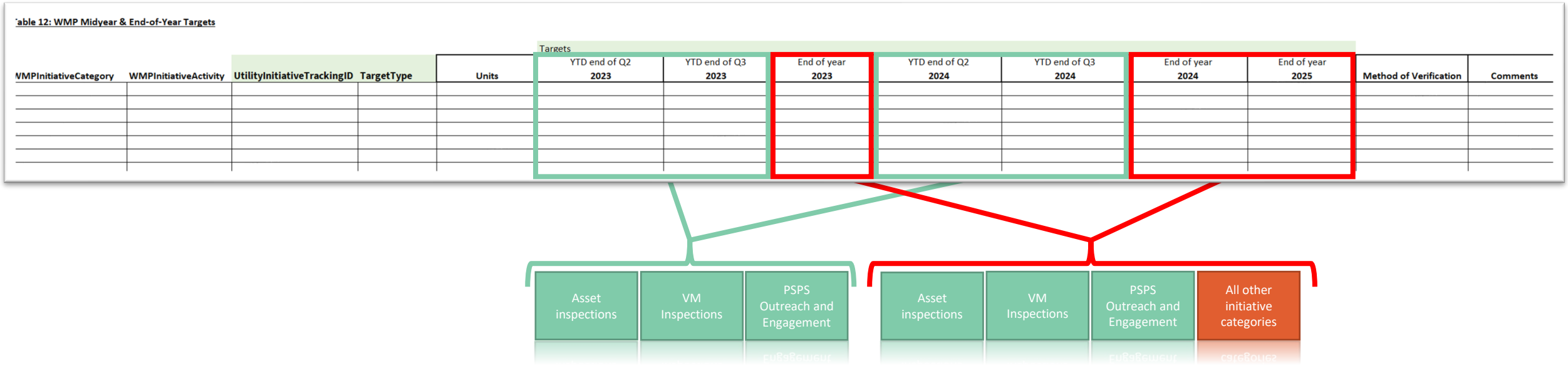
Wildfire Mitigation Data - Table 12

Table 12: WMP Midyear & End-of-Year Targets:

- New for 2023
- UtilityInitiativeTrackingID

Table 12: WMP Midyear & End-of-Year Targets

WMPInitiativeCategory	WMPInitiativeActivity	UtilityInitiativeTrackingID	TargetType	Units	Targets							Method of Verification	Comments
					YTD end of Q2 2023	YTD end of Q3 2023	End of year 2023	YTD end of Q2 2024	YTD end of Q3 2024	End of year 2024	End of year 2025		



Wildfire Mitigation Data - Table 13

Table 13: Open work orders / notifications:

- New for 2023
- Map GO 95 level categories to internal categories using the "**h. Optional utility-specific repair priority**" field

Table 13: Open work orders / notifications

a. Work order number	b. Equipment Type	c. HFTD Tier	d. Line type	e. Date the work order was originally opened	f. Due date of the original work order	g. GO 95 rule 18 priority level of the original work order	h. Optional utility-specific repair priority

QUESTIONS?



2023 Performance Metrics



OVERVIEW

- Background
- Performance Metrics & WMPs
- Stakeholder Comments
- Retained, New, Amended and Removed Performance Metrics for 2023
- Next Steps
- Questions

Background

- Energy Safety is required to consult with the California Public Utilities Commission (CPUC) on performance metrics for electrical corporations pursuant to Public Utilities Code section 8389 (d)(1)
- Draft performance metrics for 2023 were published in the CPUC's Resolution SPD-3 on 9/16. Stakeholders submitted comments on 10/10
- Energy Safety has reviewed and incorporated the comments provided by stakeholders, where appropriate.

Performance Metrics & WMPs

- The current performance metrics were adopted for the 2021 WMPs by the CPUC in 2020 and can be found in Table 2 of Attachment 2.3 of Resolution WSD-011.
- The CPUC issued Resolution M-4860 in December 2021, continuing the 2022 performance metrics use to evaluate the 2021 WMPs
- Energy Safety's draft performance metrics in Resolution SPD-3 reflect new and amended performance metrics that will be used for the 2023 WMP evaluations & compliance reviews.

OVERVIEW OF COMMENTS

- Four stakeholders submitted comments (three large electrical corporations and the Small and Multi-Jurisdictional Utilities)
- Nature of comments ranged from raising technical points, requesting clarifications, and raising matters that were specific to the smaller electrical corporations

COMMENTS

- Performance metric 1e. (outages related to fast trip settings) – comments received requesting further clarification on the specific wording of this metric. **(Action - clarified description)**
- Performance metric 6 (Circuit Mile Days Operated Above Rated Current Carrying Capacity) - technical comments received **(Action - removed)**
- Performance metric 9 (Time Between the Utility Detecting an Ignition and the Utility Notifying the Public Safety Partners) - comments received on fire response process, including the role of the utilities **(Action – replaced with similar metric)**

RETAINED METRICS FOR 2023

1 (a-d) Risk Events with probability of ignition

10 (a, b) Fatalities and Injuries due to utility-related ignitions

11 (a, b) Value of assets destroyed by utility-related ignitions

12 (a, b) Structure damaged or destroyed by utility-related

13 (a) Acreage burned by utility-ignited wildfires

14 (a, b) Number of utility-related ignitions

18 Community outreach metrics

NEW METRICS FOR 2023

Energy Safety's new metrics will provide additional measurements including:

- Consequences resulting from WMP implementations
- The utilities' respond times from inspection findings to risk reducing activities related to vegetation and asset management
- Response times to events
- Grid condition findings and fixes

NEW METRICS FOR 2023

1.e. Number of outages on circuits where fast trip is enabled

2. Time between vegetation inspection finding and resulting trimming activity

3-5. Time between level 1, 2 and 3 asset inspection finding and resulting maintenance activity

7. Number of open and past due vegetation management work orders

8. Number of asset management open and past due work orders

9. Time from detecting an event and dispatching personnel to investigate

16. Grid condition fixes in response to inspection findings

AMENDED METRIC FOR 2023

15. Grid condition findings from inspection (including the number of assets / structures / circuit miles inspected)

- This metric is further broken down by inspection type and technology than was previously collected.
- Energy Safety was requesting this additional information through data requests during the review process to better understand utility initiatives
- This metric can be used to quantify trends in the number of inspection findings, the ratio of fixes to findings

AMENDED METRIC FOR 2023

17. Vegetation clearance findings from inspection - Number of trees inspected for vegetation compliance/ where at least some vegetation was found in non-compliant condition

- This now emphasizes routine vs. non routine inspections and is further broken down by inspection methodology. This previously was based on the span length inspected and is now modified to number of trees to be aligned with how the data is collected.
- This metric will be used to quantify trends in the number of vegetation inspection findings and assess potential impact on wildfire safety.

REMOVED METRICS FOR 2023

Energy Safety removed two existing performance metrics for 2023:

- **Metric 8** - Fatalities resulting from utility wildfire mitigation initiatives
- **Metric 9** - Occupational Safety and Health Administration (OSHA) -reportable injuries from utility wildfire mitigation initiatives.

These metrics are health and safety issues that are covered by other state or federal authorities (i.e., OSHA).

NEXT STEPS

- Energy Safety issued the updated 2023 Performance Metrics to the CPUC
- The CPUC updated Resolution SPD-3 (now Revision 1) that will be voted on by the Commissioners for adoption on 11/17
- Energy Safety's Data Guidelines will be updated to reflect the final adopted Performance Metrics

QUESTIONS?



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