Wildfire Safety Division Attachment 2.3

Wildfire Mitigation Plan Quarterly report - non-spatial data template

Resolution WSD-011 Attachment 2.3

Instructions for use	
1.	Fill out the tan cells (color represented here) starting with the cell below (D17: Utility). The Utility name will populate the Table tabs to follow. Date modified will vary by table.
2.	Cells will only accept valid entries. For most cells, this is positive numbers
3.	For each Table tab, after a modification is made, denote the date of the change in cell C4 for each Table tab.
4.	Some columns have an additional header in row 5 to serve as clarification for several columns. With the exception of projected data, row 5 will be highlighted in blue (color represented here)
5.	Some required metrics are future projections. For these, row 5, above the projections will be highlighted light green (color represented here)
	In future submissions, report updated projected numbers if / when projections have changed, and report actuals once the quarter / year has passed.
6.	For data required annually rather than quarterly (see Tables 7.3 - 10), report for entire year even if part of the year is projected. Once year has passed, update cell with actuals
7.	Some tables will have additional instructions provided in a **Notes** box located in cells D2 - D4
	Notes will explain terms, signal where projections are required, and provide other useful information.
8.	For the initial quarterly submission, utilities are required to submit data on annual metrics for 2015 - 2020, which should represent the most updated data from the 2020 WMP for years 2015-2019
*	Do not add or manipulate the template for any of the tabs

Update the below table to establish which year, quarter of the WMP cycle this submission this represents.

Utility	Liberty
First year of 3-year WMP cycle	2020
Submission year	2021
Submission quarter	Q4
Date Modified	3/1/2021

Utility	Liberty
Table No.	1
Date Modified	3/1/2021

Notes:
Transmission lines refer to all lines at or above 65kV, and distribution lines refer to all lines below 65kV.

Note: These columns are placeholders for future QR submissions.

Table 1: Recent performance on progress metrics

Metric type	#	Progress metric name	2015	2016	2017	2018	2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Unit(s)	Comments
1. Grid condition findings from inspection - Distribution lines in HFTD	1.a.	Number of circuit miles inspected from patrol inspections in HFTD - Distribution lines		0	0	0	0	0	0	0	0	0								# circuit miles	
	1.b.	Number of circuit miles inspected from detailed inspections in HFTD - Distribution lines		16	140	392	80.9	51.4	0	361	457.7	163								# circuit miles	
	1.c.	Number of circuit miles inspected from other inspections (list types of "other" inspections in comments) in HFTD - Distribution lines		0	0	0	0	0	0	0	0	0								# circuit miles	
	1.d.	Level 1 findings in HFTD for patrol inspections - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.e.	Level 1 findings in HFTD for detailed inspections - Distribution lines		0	0	3	0	0	0	19	37	0								# findings	
	1.f.	Level 1 findings in HFTD for other inspections (list types of "other" inspections in comments) - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.g.	Level 2 findings in HFTD for patrol inspections - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.h.	Level 2 findings in HFTD for detailed inspections - Distribution lines		0	98	17	8	43	0	316	1102	7								# findings	
	1.i.	Level 2 findings in HFTD for other inspections (list types of "other" inspections in comments) - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.j.	Level 3 findings in HFTD for patrol inspections - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.k.	Level 3 findings in HFTD for detailed inspections - Distribution lines		148	728	2375	523	776	0	2895	7020	171								# findings	
	1.l.	Level 3 findings in HFTD for other inspections (list types of "other" inspections in comments) - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
1. Grid condition findings from inspection - Distribution lines total	1.a.ii.	Number of total circuit miles inspected from patrol inspections - Distribution lines		0	0	0	0	0	0	0	0	0								# circuit miles	
	1.b.ii.	Number of total circuit miles inspected from detailed inspections - Distribution lines		16	140	392	80.9	51.4	0	361	457.7	163								# circuit miles	
	1.c.ii.	Number of total circuit miles inspected from other inspections (list types of "other" inspections in comments) - Distribution lines		0	0	0	0	0	0	0	0	0								# circuit miles	
	1.d.ii.	Level 1 findings for patrol inspections - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.e.ii.	Level 1 findings for detailed inspections - Distribution lines		0	0	3	0	0	0	19	37	0								# findings	
	1.f.ii.	Level 1 findings for other inspections (list types of "other" inspections in comments) - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.g.ii.	Level 2 findings for patrol inspections - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.h.ii.	Level 2 findings for detailed inspections - Distribution lines		0	98	17	8	43	0	316	1102	7								# findings	
	1.i.ii.	Level 2 findings for other inspections (list types of "other" inspections in comments) - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.j.ii.	Level 3 findings for patrol inspections - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
	1.k.ii.	Level 3 findings for detailed inspections - Distribution lines		148	728	2375	523	776	0	2895	7020	171								# findings	
	1.l.ii.	Level 3 findings for other inspections (list types of "other" inspections in comments) - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
1. Grid condition findings from inspection - Transmission lines in HFTD	1.a.iii.	Number of circuit miles inspected from patrol inspections in HFTD - Transmission lines		0	0	0	0	0	0	0	0	0								# circuit miles	
	1.b.iii.	Number of circuit miles inspected from detailed inspections in HFTD - Transmission lines		0	0	47.7	14.5	0	0	6.4	17.1	17.28								# circuit miles	
	1.c.iii.	Number of circuit miles inspected from other inspections (list types of "other" inspections in comments) in HFTD - Transmission lines		0	0	0	0	0	0	0	0	0								# circuit miles	
	1.d.iii.	Level 1 findings in HFTD for patrol inspections - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
	1.e.iii.	Level 1 findings in HFTD for detailed inspections - Transmission lines		0	0	0	0	0	0	2	0	0								# findings	
	1.f.iii.	Level 1 findings in HFTD for other inspections (list types of "other" inspections in comments) - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
	1.g.iii.	Level 2 findings in HFTD for patrol inspections - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
	1.h.iii.	Level 2 findings in HFTD for detailed inspections - Transmission lines		0	0	0	0	0	0	0	1	0								# findings	
	1.i.iii.	Level 2 findings in HFTD for other inspections (list types of "other" inspections in comments) - Transmsision lines		0	0	0	0	0	0	0	0	0								# findings	
	1.j.iii.	Level 3 findings in HFTD for patrol inspections - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
	1.k.iii.	Level 3 findings in HFTD for detailed inspections - Transmission lines		0	0	386	152	0	0	0	7	19								# findings	
	1.l.iii.	Level 3 findings in HFTD for other inspections (list types of "other" inspections in comments) - Distribution lines		0	0	0	0	0	0	0	0	0								# findings	
1. Grid condition findings from inspection - Transmission lines total	1.a.iv.	Number of total circuit miles inspected from patrol inspections - Transmission lines		0	0	0	0	0	0	0	0	0								# circuit miles	
	1.b.iv.	Number of total circuit miles inspected from detailed inspections - Transmission lines		0	0	47.7	14.5	0	0	6.4	17.1	17.28								# circuit miles	
	1.c.iv.	Number of total circuit miles inspected from other inspections (list types of "other" inspections in comments) - Transmission lines		0	0	0	0	0	0	0	0	0								# circuit miles	
	1.d.iv.	Level 1 findings for patrol inspections - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
	1.e.iv.	Level 1 findings for detailed inspections - Transmission lines		0	0	0	0	0	0	2	0	0								# findings	
	1.f.iv.	Level 1 findings for other inspections (list types of "other" inspections in comments) - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
	1.g.iv.	Level 2 findings for patrol inspections - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
	1.h.iv.	Level 2 findings for detailed inspections - Transmission lines		0	0	0	0	0	0	0	1	0								# findings	
	1.i.iv.	Level 2 findings for other inspections (list types of "other" inspections in comments) - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
	1.j.iv.	Level 3 findings for patrol inspections - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
	1.k.iv.	Level 3 findings for detailed inspections - Transmission lines		0	0	386	152	0	0	0	7	19								# findings	
	1.l.iv.	Level 3 findings for other inspections (list types of "other" inspections in comments) - Transmission lines		0	0	0	0	0	0	0	0	0								# findings	
2. Vegetation clearance findings from inspection - total	2.a.i	Number of spans insepcted where at least some vegetation was found in non-compliant condition - total		298	294	296	959	1352	190	247	309	1051								# of spans inspected with noncompliant clearance based on applicable rules and regulations at the time of inspection	
	2.a.ii	Number of spans insepcted for vegetation compliance - total		1940	1595	2072	11159	13938	4467	4123	3890	13645								# of spans inspected for vegetation compliance	
2. Vegetation clearance findings from inspection - in HFTD	2.b.i	Number of spans insepcted where at least some vegetation was found in non-compliant condition in HFTD		298	294	296	959	1352	190	247	309	1051								# of spans inspected with noncompliant clearance based on applicable rules and regulations at the time of inspection	
	2.b.ii	Number of spans insepcted for vegetation compliance in HFTD		1940	1595	2072	11159	13938	4467	4123	3890	13645								# of spans inspected for vegetation compliance	
3. Customer outreach metrics	3.a.	# Customers in an evacuation zone for utility-ignited wildfire																		# customers (if customer was in an evacuation zone for multiple wildfires, count the customer for each relevant wildfire)	
	3.b.	# Customers notified of evacuation orders																		# customers (count customer multiple times for each unique wildfire of which they were notified)	
	3.c.	% of customers notified of evacuation in evacuation zone of a utility-ignited wildfire																		Percentage of customers notified of evacuation	

Utility	Liberty
Table No.	2
Date Modified	3/1/2021

Notes:
Transmission lines refer to all lines at or above 65kV, and distribution lines refer to all lines below 65kV.

Note: These columns are placeholders for future QR submissions.

Table 2: Recent performance on outcome metrics

Metric type	#	Outcome metric name	2015	2016	2017	2018	2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Unit(s)	Comments
1. Risk events	1.a.	Number of all events with probability of ignition, including wires down, contacts with objects, line slap, events with evidence of heat generation, and other events that cause sparking or have the potential to cause ignition	99	111	137	115	278	22	17	31	54									Number per year	
	1.b.	Number of wires down (total)	5	10	3	4	5	2	1	2	1									Number of wires down per year	
	1.c.	Number of outage events not caused by contact with vegetation (total)	16	10	19	5	25	8	5	15	14									Number of outage events per year	
	1.d.	Number of outage events caused by contact with vegetation (total)	21	17	15	14	35	5	7	12	23									Number of outage events per year	
2. Utility inspection findings - Distribution	2.a.	Number of Level 1 findings (distribution - total)	0	0	3	0	0	0	19	37	0									# findings	
	2.b.	Number of Level 2 findings (distribution - total)	0	98	17	8	43	0	316	1102	7									# findings	
	2.c.	Number of Level 3 findings (distribution - total)	148	728	2375	523	776	0	2895	7020	171									# findings	
	2.d.	Number of distribution circuit miles inspected	43	280	698.4	173.8	137.2	0	740	1161	371									# circuit miles	
2. Utility inspection findings - Transmission	2.a.ii	Number of Level 1 findings (transmission - total)	0	0	0	0	0	0	2	0	0									# findings	
	2.b.ii	Number of Level 2 findings (transmission - total)	0	0	0	0	0	0	0	1	0									# findings	
	2.c.ii	Number of Level 3 findings (transmission - total)	0	0	386	152	0	0	0	7	19									# findings	
	2.d.ii	Number of transmission circuit miles inspected	0	0	45.26	14.48	0	0	6	17	17									# circuit miles	
3. Utility ignited wildfire fatalities	3.a.	Fatalities due to utility-ignited wildfire (total)	0	0	0	0	0	0	0	0	0									Number of fatalities per year	
	3.b.	Injuries due to utility-ignited wildfire (total)	0	0	0	0	0	0	0	0	0									Number of injuries per year	
4. Value of assets destroyed by utility-ignited wildfire, listed by asset type	4.a.	Value of assets destroyed by utility-ignited wildfire (total)	0	315649	0	0	9855.29	0	0	0	0									Dollars of damage or destruction per year	
5. Structures damaged or destroyed by utility-ignited wildfire	5.a.	Number of structures destroyed by utility-ignited wildfire (total)	0	18	0	0	0	0	0	0	0									Number of structures destroyed per year	
	5.b.	Critical infrastructure damaged/destroyed by utility-ignited wildfire (total)	0	0	0	0	0	0	0	0	0									Number of critical infrastructure damaged/destroyed per year	
6. Acreage burned by utility-ignited wildfire	6.a.	Acreage burned by utility-ignited wildfire (total)	10.25	196	0	0	0.5	0	0	0	0									Acres burned per year	
7. Number of utility wildfire ignitons	7.a.	Number of ignitions (total) according to existing ignition data reporting requirement	2	1	0	0	1	0	0	0	2									Number per year	
	7.b.	Number of ignitions in HFTD (subtotal)	2	1	0	0	1	0	0	0	0									Number in HFTD per year	
	7.c.	Number of ignitions in HFTD Zone 1	0	0	0	0	0	0	0	0	0									Number in HFTD Zone 1 per year	
	7.c.ii.	Number of ignitions in HFTD Tier 2	2	1	0	0	1	0	0	0	2									Number in HFTD Tier 2 per year	
	7.c.iii.	Number of ignitions in HFTD Tier 3	0	0	0	0	0	0	0	0	0									Number in HFTD Tier 3 per year	
	7.d.	Number of ignitions in non-HFTD (subtotal)	0	0	0	0	0	0	0	0	0									Number in non-HFTD per year	
8. Fatalities resulting from utility wildfire mitigation initiatives	8.a.	Fatalities due to utility wildfire mitigation activities (total) - "activities" defined as all activities accounted for in the 2020 WMP proposed WMP spend	0	0	0	0	0	0	0	0	0									Number of fatalities per year	
9. OSHA-reportable injuries from utility wildfire mitigation initiatives	9.a.	OSHA-reportable injuries due to utility wildfire mitigation activities (total) - "activities" defined as all activities accounted for in the 2020 WMP proposed WMP spend	0	0	0	0	0	0	0	0	0									Number of OSHA-reportable injuries per year	

Utility	Liberty
Table No.	3
Date Modified	3/1/2021

Note: These columns are placeholders for future QR submissions.

Table 3: List and description of additional metrics

Metric	Definition	Purpose	Assumptions made to connect metric to purpose	Third-party validation (if any)	2015	2016	2017	2018	2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Unit(s)	Comments

Utility	Liberty
Table No.	4
Date Modified	3/1/2021

Note: These columns are placeholders for future QR submissions.

Table 4: Fatalities due to utility wildfire mitigation initiatives

Metric type	#	Outcome metric name	2015	2016	2017	2018	2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Unit(s)	Comments
1. Fatalities - Full-time Employee	1.a.	Fatalities due to utility inspection - Full-time employee	0	0	0	0	0	0	0	0	0									# fatalities	
	1.b.	Fatalities due to vegetation management - Full-time employee	0	0	0	0	0	0	0	0	0									# fatalities	
	1.c.	Fatalities due to utility fuel management - Full-time employee	0	0	0	0	0	0	0	0	0									# fatalities	
	1.d.	Fatalities due to grid hardening - Full-time employee	0	0	0	0	0	0	0	0	0									# fatalities	
	1.e.	Fatalities due to other - Full-time employee	0	0	0	0	0	0	0	0	0									# fatalities	
2. Fatalities - Contractor	2.a.	Fatalities due to utility inspection - Contractor	0	0	0	0	0	0	0	0	0									# fatalities	
	2.b.	Fatalities due to vegetation management - Contractor	0	0	0	0	0	0	0	0	0									# fatalities	
	2.c.	Fatalities due to utility fuel management - Contractor	0	0	0	0	0	0	0	0	0									# fatalities	
	2.d.	Fatalities due to grid hardening - Contractor	0	0	0	0	0	0	0	0	0									# fatalities	
	2.e.	Fatalities due to other - Contractor	0	0	0	0	0	0	0	0	0									# fatalities	
3. Fatalities - Member of public	3.a.	Fatalities due to utility inspection - Public	0	0	0	0	0	0	0	0	0									# fatalities	
	3.b.	Fatalities due to vegetation management - Public	0	0	0	0	0	0	0	0	0									# fatalities	
	3.c.	Fatalities due to utility fuel management - Public	0	0	0	0	0	0	0	0	0									# fatalities	
	3.d.	Fatalities due to grid hardening - Public	0	0	0	0	0	0	0	0	0									# fatalities	
	3.e.	Fatalities due to other - Public	0	0	0	0	0	0	0	0	0									# fatalities	

Utility	Liberty
Table No.	5
Date Modified	3/1/2021

Note: These columns are placeholders for future QR submissions.

Table 5: OSHA-reportable injuries due to utility wildfire mitigation initiatives

Metric type	#	Outcome metric name	2015	2016	2017	2018	2019	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Unit(s)	Comments
1. OSHA injuries - Full-time Employee	1.a.	OSHA injuries due to utility inspection - Full-time employee		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	1.b.	OSHA injuries due to vegetation management - Full-time employee		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	1.c.	OSHA injuries due to utility fuel management - Full-time employee		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	1.d.	OSHA injuries due to grid hardening - Full-time employee		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	1.e.	OSHA injuries due to other - Full-time employee		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
2. OSHA injuries - Contractor	2.a.	OSHA injuries due to utility inspection - Contractor		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	2.b.	OSHA injuries due to vegetation management - Contractor		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	2.c.	OSHA injuries due to utility fuel management - Contractor		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	2.d.	OSHA injuries due to grid hardening - Contractor		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	2.e.	OSHA injuries due to other - Contractor		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
3. OSHA injuries - Member of public	3.a.	OSHA injuries due to utility inspection - Public		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	3.b.	OSHA injuries due to vegetation management - Public		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	3.c.	OSHA injuries due to utility fuel management - Public		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	3.d.	OSHA injuries due to grid hardening - Public		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	
	3.e.	OSHA injuries due to other - Public		0	0	0	0	0	0	0	0	0								# OSHA-reportable injuries	

Utility	Liberty
Table No.	6
Date Modified	3/1/2021

Note: These columns are placeholders for future QR submissions.

Table 6: Weather patterns								Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Metric type	**#**	**Outcome metric name**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2020**	**2020**	**2020**	**2021**	**2021**	**2021**	**2021**	**2022**	**2022**	**2022**	**2022**	**Unit(s)**	**Comments**
1. Red Flag Warning Overhead circuit mile Days	1.a.	Red Flag Warning Overhead circuit mile days - entire utility territory	272	94	193	3134	869	0	101	4679	2093									Sum of overhead circuit miles of utility grid subject to Red Flag Warning each day within a given time period, calculated as the number of overhead circuit miles that were under an RFW multiplied by the number of days those circuit miles were under said RFW. For example, if 100 overhead circuit miles were under an RFW for 1 day, and 10 of those miles were under RFW for an additional day, then the total RFW OH circuit mile days would be 110.	
	1.b.	Red Flag Warning Overhead circuit mile days - HFTD Zone 1	0	0	0	0	1	0	0	3	2									Red Flag Warning Overhead circuit mile days, see above for definition	
	1.c.	Red Flag Warning Overhead circuit mile days - HFTD Tier 2	140	78	118	2593	727	0	99	3822	1737									Red Flag Warning Overhead circuit mile days, see above for definition	
	1.d.	Red Flag Warning Overhead circuit mile days - HFTD Tier 3	0	0	0	306	77	0	0	442	212									Red Flag Warning Overhead circuit mile days, see above for definition	
	1.e.	Red Flag Warning Overhead circuit mile days - Non-HFTD	112	14	64	171	48	0	2	313	101									Red Flag Warning Overhead circuit mile days, see above for definition	
2. Wind conditions	2.a.	High wind warning overhead circuit mile days	864	3508	180	126	108	11	0	0	862									Sum of overhead circuit miles of utility grid subject to High Wind Warnings (HWW, as defined by the National Weather Service) each day within a given time period, calculated as the number of overhead circuit miles that were under an HWW multiplied by the number of days those miles were under said HWW. For example, if 100 overhead circuit miles were under an HWW for 1 day, and 10 of those miles were under HWW for an additional day, then the total HWW OH circuit mile days would be 110.	
3. Other	3.a.	Other relevant weather pattern metrics tracked (add additional rows as needed)																			

Utility	Liberty
Table No.	7.1
Date Modified	3/1/2021

Notes:
Transmission lines refer to all lines at or above 65kV, and distribution lines refer to all lines below 65kV.
Data from 2015 - 2020 Q2 should be actual numbers. 2020 Q3 - 2023 should be projected. In future submissions update projected numbers with actuals

Table 7.1: Key recent and projected drivers of risk events

							Number of risk events									Projected risk events									
												Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
	Risk Event category	**Cause category**	**#**	**Sub-cause category**	**Are risk events tracked for ignition driver? (yes / no)**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2020**	**2020**	**2020**	**2021**	**2021**	**2021**	**2021**	**2022**	**2022**	**2022**	**2022**	**Unit(s)**	**Comments**
x	Wire down event - Distribution	1. Contact from object - Distribution	1.a.	Veg. contact- Distribution	Yes		1	1	1		1	1	2	1	1	1	1	1	1	1	1	# risk events (excluding ignitions)	
			1.b.	Animal contact- Distribution	Yes																	# risk events (excluding ignitions)	
			1.c.	Balloon contact- Distribution	Yes																	# risk events (excluding ignitions)	
			1.d.	Vehicle contact- Distribution	Yes								1				1				1	# risk events (excluding ignitions)	
			1.e.	Other contact from object - Distribution	Yes																	# risk events (excluding ignitions)	
		2. Equipment / facility failure - Distribution	2.a.	Connector damage or failure- Distribution	Yes							1										# risk events (excluding ignitions)	
			2.b.	Splice damage or failure — Distribution	Yes																	# risk events (excluding ignitions)	
			2.c.	Crossarm damage or failure - Distribution	Yes				1													# risk events (excluding ignitions)	
			2.d.	Insulator damage or failure- Distribution	Yes																	# risk events (excluding ignitions)	
			2.e.	Lightning arrestor damage or failure- Distribution	Yes																	# risk events (excluding ignitions)	
			2.f.	Tap damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			2.g.	Tie wire damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			2.h.	Other - Distribution	Yes		1				2					1				1		# risk events (excluding ignitions)	
		3. Wire-to-wire contact - Distribution	3.a.	Wire-to-wire contact / contamination- Distribution	Yes								2				1				1	# risk events (excluding ignitions)	
		4. Contamination - Distribution	4.a.	Contamination - Distribution	Yes																	# risk events (excluding ignitions)	
		5. Utility work / Operation	5.a.	Utility work / Operation	Yes																	# risk events (excluding ignitions)	
		6. Vandalism / Theft - Distribution	6.a.	Vandalism / Theft - Distribution	Yes																	# risk events (excluding ignitions)	
		7. Other- Distribution	7.a.	All Other- Distribution	Yes																	# risk events (excluding ignitions)	
		8. Unknown- Distribution	8.a.	Unknown - Distribution	Yes	9	3	1	5						1				1			# risk events (excluding ignitions)	
x	Wire down event - Transmission	9. Contact from object - Transmission	9.a.	Veg. contact- Transmission																		# risk events (excluding ignitions)	
			9.b.	Animal contact- Transmission																		# risk events (excluding ignitions)	
			9.c.	Balloon contact- Transmission																		# risk events (excluding ignitions)	
			9.d.	Vehicle contact- Transmission																		# risk events (excluding ignitions)	
			9.e.	Other contact from object - Transmission																		# risk events (excluding ignitions)	
		10. Equipment / facility failure - Transmission	10.a.	Connector damage or failure- Transmission																		# risk events (excluding ignitions)	
			10.b.	Splice damage or failure — Transmission																		# risk events (excluding ignitions)	
			10.c.	Crossarm damage or failure - Transmission																		# risk events (excluding ignitions)	
			10.d.	Insulator damage or failure- Transmission																		# risk events (excluding ignitions)	
			10.e.	Lightning arrestor damage or failure- Transmission																		# risk events (excluding ignitions)	
			10.f.	Tap damage or failure - Transmission																		# risk events (excluding ignitions)	
			10.g.	Tie wire damage or failure - Transmission																		# risk events (excluding ignitions)	
			10.h.	Other - Transmission																		# risk events (excluding ignitions)	
		11. Wire-to-wire contact - Transmission	11.a.	Wire-to-wire contact / contamination- Transmission																		# risk events (excluding ignitions)	
		12. Contamination - Transmission	12.a.	Contamination - Transmission																		# risk events (excluding ignitions)	
		13. Utility work / Operation	13.a.	Utility work / Operation																		# risk events (excluding ignitions)	
		14. Vandalism / Theft - Transmission	14.a.	Vandalism / Theft - Transmission																		# risk events (excluding ignitions)	
		15. Other- Transmission	15.a.	All Other- Transmission																		# risk events (excluding ignitions)	
		16. Unknown- Transmission	16.a.	Unknown - Transmission																		# risk events (excluding ignitions)	
x	Outage - Distribution	17. Contact from object - Distribution	17.a.	Veg. contact- Distribution	Yes	16	18	14	34	5	7	11	21	5	5	10	10	5	5	10	10	# risk events (excluding ignitions)	
			17.b.	Animal contact- Distribution	Yes	3	11	2	22		1	14	6	1	2	6	6	1	2	6	6	# risk events (excluding ignitions)	
			17.c.	Balloon contact- Distribution	Yes																	# risk events (excluding ignitions)	
			17.d.	Vehicle contact- Distribution	Yes		10	1	6	8	4	2	7	2	2	2	2	2	2	2	2	# risk events (excluding ignitions)	
			17.e.	Other contact from object - Distribution	Yes																	# risk events (excluding ignitions)	
		18. Equipment / facility failure - Distribution	18.a.	Capacitor bank damage or failure- Distribution	Yes																	# risk events (excluding ignitions)	
			18.b.	Conductor damage or failure — Distribution	Yes	10	5	4	9	3	4	6	16	3	3	7	7	3	3	7	7	# risk events (excluding ignitions)	
			18.c.	Fuse damage or failure - Distribution	Yes	16	46	50	122	10	9	10	13	15	15	15	15	15	15	15	15	# risk events (excluding ignitions)	
			18.d.	Lightning arrestor damage or failure- Distribution	Yes		1	1	4		1		1		1		1		1		1	# risk events (excluding ignitions)	
			18.e.	Switch damage or failure- Distribution	Yes																	# risk events (excluding ignitions)	
			18.f.	Pole damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			18.g.	Insulator and brushing damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			18.h.	Crossarm damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			18.i.	Voltage regulator / booster damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			18.j.	Recloser damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			18.k.	Anchor / guy damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			18.l.	Sectionalizer damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			18.m.	Connection device damage or failure - Distribution	Yes																	# risk events (excluding ignitions)	
			18.n.	Transformer damage or failure - Distribution	Yes	7	13	7	22	2	3	12	15	3	3	7	7	3	3	7	7	# risk events (excluding ignitions)	
			18.o.	Other - Distribution	Yes	59	23	28	42	8	11	12	22	12	12	12	12	12	12	12	12	# risk events (excluding ignitions)	
		19. Wire-to-wire contact - Distribution	19.a.	Wire-to-wire contact / contamination- Distribution	Yes		2	1	4	6	2		3	3	3		3	3	3		3	# risk events (excluding ignitions)	
		20. Contamination - Distribution	20.a.	Contamination - Distribution	Yes																	# risk events (excluding ignitions)	
		21. Utility work / Operation	21.a.	Utility work / Operation	Yes																	# risk events (excluding ignitions)	
		22. Vandalism / Theft - Distribution	22.a.	Vandalism / Theft - Distribution	Yes																	# risk events (excluding ignitions)	
		23. Other- Distribution	23.a.	All Other- Distribution	Yes					14	7	8	22	15	10	10	15	15	10	10	15	# risk events (excluding ignitions)	
		24. Unknown- Distribution	24.a.	Unknown - Distribution	Yes																	# risk events (excluding ignitions)	
x	Outage - Transmission	25. Contact from object - Transmission	25.a.	Veg. contact- Transmission																		# risk events (excluding ignitions)	
			25.b.	Animal contact- Transmission																		# risk events (excluding ignitions)	
			25.c.	Balloon contact- Transmission																		# risk events (excluding ignitions)	
			25.d.	Vehicle contact- Transmission																		# risk events (excluding ignitions)	
			25.e.	Other contact from object - Transmission																		# risk events (excluding ignitions)	
		26. Equipment / facility failure - Transmission	26.a.	Capacitor bank damage or failure- Transmission																		# risk events (excluding ignitions)	
			26.b.	Conductor damage or failure — Transmission																		# risk events (excluding ignitions)	
			26.c.	Fuse damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.d.	Lightning arrestor damage or failure- Transmission																		# risk events (excluding ignitions)	
			26.e.	Switch damage or failure- Transmission																		# risk events (excluding ignitions)	
			26.f.	Pole damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.g.	Insulator and brushing damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.h.	Crossarm damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.i.	Voltage regulator / booster damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.j.	Recloser damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.k.	Anchor / guy damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.l.	Sectionalizer damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.m.	Connection device damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.n.	Transformer damage or failure - Transmission																		# risk events (excluding ignitions)	
			26.o.	Other - Transmission																		# risk events (excluding ignitions)	
		27. Wire-to-wire contact - Transmission	27.a.	Wire-to-wire contact / contamination- Transmission																		# risk events (excluding ignitions)	
		28. Contamination - Transmission	28.a.	Contamination - Transmission																		# risk events (excluding ignitions)	
		29. Utility work / Operation	29.a.	Utility work / Operation																		# risk events (excluding ignitions)	
		30. Vandalism / Theft - Transmission	30.a.	Vandalism / Theft - Transmission																		# risk events (excluding ignitions)	
		31. Other- Transmission	31.a.	All Other- Transmission																		# risk events (excluding ignitions)	
		32. Unknown- Transmission	32.a.	Unknown - Transmission																		# risk events (excluding ignitions)	
x	Ignition - Distribution	33. Contact from object - Distribution	33.a.	Veg. contact- Distribution	Yes				1			1	2				1			1		# ignitions	
			33.b.	Animal contact- Distribution	Yes																	# ignitions	
			33.c.	Balloon contact- Distribution	Yes																	# ignitions	
			33.d.	Vehicle contact- Distribution	Yes		1						1				1				1	# ignitions	
			33.e.	Other contact from object - Distribution	Yes																	# ignitions	
		34. Equipment / facility failure - Distribution	34.a.	Capacitor bank damage or failure- Distribution	Yes																	# ignitions	
			34.b.	Conductor damage or failure — Distribution	Yes								2				1				1	# ignitions	
			34.c.	Fuse damage or failure - Distribution	Yes		1	1	2			1	1			1				1		# ignitions	
			34.d.	Lightning arrestor damage or failure- Distribution	Yes																	# ignitions	
			34.e.	Switch damage or failure- Distribution	Yes																	# ignitions	
			34.f.	Pole damage or failure - Distribution	Yes	3										1						# ignitions	

			34.g.	Insulator and brushing damage or failure - Distribution	Yes																# ignitions
			34.h.	Crossarm damage or failure - Distribution	Yes		1														# ignitions
			34.i.	Voltage regulator / booster damage or failure - Distribution	Yes																# ignitions
			34.j.	Recloser damage or failure - Distribution	Yes																# ignitions
			34.k.	Anchor / guy damage or failure - Distribution	Yes																# ignitions
			34.l.	Sectionalizer damage or failure - Distribution	Yes																# ignitions
			34.m.	Connection device damage or failure - Distribution	Yes																# ignitions
			34.n.	Transformer damage or failure - Distribution	Yes	1	2	1				2				1				1	# ignitions
			34.o.	Other - Distribution	Yes	4	3	9	1	2		4	1	1	1	1	1	1	1	1	# ignitions
		35. Wire-to-wire contact - Distribution	35.a.	Wire-to-wire contact / contamination- Distribution	Yes																# ignitions
		36. Contamination - Distribution	36.a.	Contamination - Distribution	Yes																# ignitions
		37. Utility work / Operation	37.a.	Utility work / Operation	Yes																# ignitions
		38. Vandalism / Theft - Distribution	38.a.	Vandalism / Theft - Distribution	Yes	1															# ignitions
		39. Other- Distribution	39.a.	All Other- Distribution	Yes																# ignitions
		40. Unknown- Distribution	40.a.	Unknown - Distribution	Yes																# ignitions
x	Ignition - Transmission	41. Contact from object - Transmission	41.a.	Veg. contact- Transmission																	# ignitions
			41.b.	Animal contact- Transmission																	# ignitions
			41.c.	Balloon contact- Transmission																	# ignitions
			41.d.	Vehicle contact- Transmission																	# ignitions
			41.e.	Other contact from object - Transmission																	# ignitions
		42. Equipment / facility failure - Transmission	42.a.	Capacitor bank damage or failure- Transmission																	# ignitions
			42.b.	Conductor damage or failure — Transmission																	# ignitions
			42.c.	Fuse damage or failure - Transmission																	# ignitions
			42.d.	Lightning arrestor damage or failure- Transmission																	# ignitions
			42.e.	Switch damage or failure- Transmission																	# ignitions
			42.f.	Pole damage or failure - Transmission																	# ignitions
			42.g.	Insulator and brushing damage or failure - Transmission																	# ignitions
			42.h.	Crossarm damage or failure - Transmission																	# ignitions
			42.i.	Voltage regulator / booster damage or failure - Transmission																	# ignitions
			42.j.	Recloser damage or failure - Transmission																	# ignitions
			42.k.	Anchor / guy damage or failure - Transmission																	# ignitions
			42.l.	Sectionalizer damage or failure - Transmission																	# ignitions
			42.m.	Connection device damage or failure - Transmission																	# ignitions
			42.n.	Transformer damage or failure - Transmission																	# ignitions
			42.o.	Other - Transmission																	# ignitions
		43. Wire-to-wire contact - Transmission	43.a.	Wire-to-wire contact / contamination- Transmission																	# ignitions
		44. Contamination - Transmission	44.a.	Contamination - Transmission																	# ignitions
		45. Utility work / Operation	45.a.	Utility work / Operation																	# ignitions
		46. Vandalism / Theft - Transmission	46.a.	Vandalism / Theft - Transmission																	# ignitions
		47. Other- Transmission	47.a.	All Other- Transmission																	# ignitions
		48. Unknown- Transmission	48.a.	Unknown - Transmission																	# ignitions

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Notes:
Transmission lines refer to all lines at or above 65kV, and distribution lines refer to all lines below 65kV.
Data from 2015 - 2019 should be actual numbers. 2020 - 2023 should be projected. In future submissions update projected numbers with actuals

Table 7.2: Key recent and projected drivers of ignitions by HFTD region

		Metric type	#	Ignition driver	Are ignitions tracked for ignition driver? (yes / no)	Number of ignitions by HFTD tier																Projected ignitions by HFTD tier										Unit(s)	Comments
						Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3	Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3	Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3	Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3	Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3	Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3	Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3		
						2015	2015	2015	2015	2016	2016	2016	2016	2017	2017	2017	2017	2018	2018	2018	2018	2019	2019	2019	2019	2020	2020	2020	2020	2021	2021	2021	2021	2022	2022	2022	2022		
x	Ignition - Distribution	1. Contact from object - Distribution	1.a.	Veg. contact- Distribution	Yes																		1				3				1				1	# ignitions	
			1.b.	Animal contact- Distribution	Yes																															# ignitions	
			1.c.	Balloon contact- Distribution	Yes																															# ignitions	
			1.d.	Vehicle contact- Distribution	Yes																															# ignitions	
			1.e.	Other contact from object - Distribution	Yes																															# ignitions	
		2. Equipment / facility failure - Distribution	2.a.	Capacitor bank damage or failure- Distribution	Yes																															# ignitions	
			2.b.	Conductor damage or failure — Distribution	Yes																						1				1					# ignitions	
			2.c.	Fuse damage or failure - Distribution	Yes															1				2				2				1				1	# ignitions	
			2.d.	Lightning arrestor damage or failure- Distribution	Yes																															# ignitions	
			2.e.	Switch damage or failure- Distribution	Yes																															# ignitions	
			2.f.	Pole damage or failure - Distribution	Yes																															# ignitions	
			2.g.	Insulator and brushing damage or failure - Distribution	Yes																															# ignitions	
			2.h.	Crossarm damage or failure - Distribution	Yes																															# ignitions	
			2.i.	Voltage regulator / booster damage or failure - Distribution	Yes																															# ignitions	
			2.j.	Recloser damage or failure - Distribution	Yes																															# ignitions	
			2.k.	Anchor / guy damage or failure - Distribution	Yes																															# ignitions	
			2.l.	Sectionalizer damage or failure - Distribution	Yes																															# ignitions	
			2.m.	Connection device damage or failure - Distribution	Yes																															# ignitions	
			2.n.	Transformer damage or failure - Distribution	Yes																	2						2				1					# ignitions	
			2.o.	Other - Distribution	Yes																	2				6			5				3			3	# ignitions	
		3. Wire-to-wire contact - Distribution	3.a.	Wire-to-wire contact / contamination- Distribution	Yes																															# ignitions	
		4. Contamination - Distribution	4.a.	Contamination - Distribution	Yes																															# ignitions	
		5. Utility work / Operation	5.a.	Utility work / Operation	Yes																															# ignitions	
		6. Vandalism / Theft - Distribution	6.a.	Vandalism / Theft - Distribution	Yes																															# ignitions	
		7. Other- Distribution	7.a.	All Other- Distribution	Yes																															# ignitions	
		8. Unknown- Distribution	8.a.	Unknown - Distribution	Yes																															# ignitions	
x	Ignition - Transmission	9. Contact from object - Transmission	9.a.	Veg. contact- Transmission																																# ignitions	
			9.b.	Animal contact- Transmission																																# ignitions	
			9.c.	Balloon contact- Transmission																																# ignitions	
			9.d.	Vehicle contact- Transmission																																# ignitions	
			9.e.	Other contact from object - Transmission																																# ignitions	
		10. Equipment / facility failure - Transmission	10.a.	Capacitor bank damage or failure- Transmission																																# ignitions	
			10.b.	Conductor damage or failure — Transmission																																# ignitions	
			10.c.	Fuse damage or failure - Transmission																																# ignitions	
			10.d.	Lightning arrestor damage or failure- Transmission																																# ignitions	
			10.e.	Switch damage or failure- Transmission																																# ignitions	
			10.f.	Pole damage or failure - Transmission																																# ignitions	
			10.g.	Insulator and brushing damage or failure - Transmission																																# ignitions	
			10.h.	Crossarm damage or failure - Transmission																																# ignitions	
			10.i.	Voltage regulator / booster damage or failure - Transmission																																# ignitions	
			10.j.	Recloser damage or failure - Transmission																																# ignitions	
			10.k.	Anchor / guy damage or failure - Transmission																																# ignitions	
			10.l.	Sectionalizer damage or failure - Transmission																																# ignitions	
			10.m.	Connection device damage or failure - Transmission																																# ignitions	
			10.n.	Transformer damage or failure - Transmission																																# ignitions	
			10.o.	Other - Transmission																																# ignitions	
		11. Wire-to-wire contact - Transmission	11.a.	Wire-to-wire contact / contamination- Transmission																																# ignitions	
		12. Contamination - Transmission	12.a.	Contamination - Transmission																																# ignitions	
		13. Utility work / Operation	13.a.	Utility work / Operation																																# ignitions	
		14. Vandalism / Theft - Transmission	14.a.	Vandalism / Theft - Transmission																																# ignitions	
		15. Other- Transmission	15.a.	All Other- Transmission																																# ignitions	
		16. Unknown- Transmission	16.a.	Unknown - Transmission																																# ignitions	

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Table 8: State of service territory and utility equipment

Note: These columns are placeholders for future QR submissions.

	Metric type	**#**	**Outcome metric name**	Non-HFTD **2015**	HFTD Zone 1 **2015**	HFTD Tier 2 **2015**	HFTD Tier 3 **2015**	Non-HFTD **2016**	HFTD Zone 1 **2016**	HFTD Tier 2 **2016**	HFTD Tier 3 **2016**	Non-HFTD **2017**	HFTD Zone 1 **2017**	HFTD Tier 2 **2017**	HFTD Tier 3 **2017**	Non-HFTD **2018**	HFTD Zone 1 **2018**	HFTD Tier 2 **2018**	HFTD Tier 3 **2018**	Non-HFTD **2019**	HFTD Zone 1 **2019**	HFTD Tier 2 **2019**	HFTD Tier 3 **2019**	Non-HFTD **2020**	HFTD Zone 1 **2020**	HFTD Tier 2 **2020**	HFTD Tier 3 **2020**	Non-HFTD **2021**	HFTD Zone 1 **2021**	HFTD Tier 2 **2021**	HFTD Tier 3 **2021**	Non-HFTD **2022**	HFTD Zone 1 **2022**	HFTD Tier 2 **2022**	HFTD Tier 3 **2022**	**Unit(s)**	**Comments**
x	1. State of service territory and equipment in urban areas	1.a.	Circuit miles (including WUI and non-WUI)																					30		429	0									Circuit miles	
		1.b.	Circuit miles in WUI																					27		401	0									Circuit miles in WUI	
		1.c.	Number of critical facilities (including WUI and non-WUI)																							138	3									Number of critical facilities	
		1.d.	Number of critical facilities in WUI																							79	3									Number of critical facilities in WUI	
		1.e.	Number of customers (including WUI and non-WUI)																					1234		16521	1									Number of customers	
		1.f.	Number of customers in WUI																					1191		16194	1									Number of customers in WUI	
		1.g.	Number of customers belonging to access and functional needs populations (including WUI and non-WUI)																					5		124										Number of customers belonging to access and functional needs populations	
		1.h.	Number of customers belonging to access and functional needs populations in WUI																					4		123										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		1										Circuit miles of overhead transmission lines	
		1.j.	Circuit miles of overhead transmission lines in WUI																					0		1										Circuit miles of overhead transmission lines in WUI	
		1.k.	Circuit miles of overhead distribution lines (including WUI and non-WUI)																					6		324	0									Circuit miles of overhead distribution lines	
		1.l.	Circuit miles of overhead distribution lines in WUI																					5		306	0									Circuit miles of overhead distribution lines in WUI	
		1.m.	Number of substations (including WUI and non-WUI)																							3										Number of substations	
		1.n	Number of substations in WUI																							2										Number of substations in WUI	
		1.o.	Number of weather stations (including WUI and non-WUI)																							1										Number of weather stations	
		1.p.	Number of weather stations in WUI																																	Number of weather stations in WUI	
x	2. State of service territory and equipment in rural areas	2.a.	Circuit miles (including WUI and non-WUI)																					24		1135	136									Circuit miles	
		2.b.	Circuit miles in WUI																					16		874	116									Circuit miles in WUI	
		2.c.	Number of critical facilities (including WUI and non-WUI)																							138	1									Number of critical facilities	
		2.d.	Number of critical facilities in WUI																							49	1									Number of critical facilities in WUI	
		2.e.	Number of customers (including WUI and non-WUI)																					574		23260	2961									Number of customers	
		2.f.	Number of customers in WUI																					447		21705	2816									Number of customers in WUI	
		2.g.	Number of customers belonging to access and functional needs populations (including WUI and non-WUI)																					3		34	24									Number of customers belonging to access and functional needs populations	
		2.h.	Number of customers belonging to access and functional needs populations in WUI																					3		32	20									Number of customers belonging to access and functional needs populations in WUI	
		2.i.	Circuit miles of overhead transmission lines (including WUI and non-WUI)																					0		15	2									Circuit miles of overhead transmission lines	
		2.j.	Circuit miles of overhead transmission lines in WUI																					0		3	0									Circuit miles of overhead transmission lines in WUI	
		2.k.	Circuit miles of overhead distribution lines (including WUI and non-WUI)																					19		757	123									Circuit miles of overhead distribution lines	
		2.l.	Circuit miles of overhead distribution lines in WUI																					13		583	108									Circuit miles of overhead distribution lines in WUI	
		2.m.	Number of substations (including WUI and non-WUI)																							7	1									Number of substations	
		2.n	Number of substations in WUI																							3										Number of substations in WUI	
		2.o.	Number of weather stations (including WUI and non-WUI)																							15	1									Number of weather stations	
		2.p.	Number of weather stations in WUI																																	Number of weather stations in WUI	
x	3. State of service territory and equipment in highly rural areas	3.a.	Circuit miles (including WUI and non-WUI)																					79		228										Circuit miles	
		3.b.	Circuit miles in WUI																					61		146										Circuit miles in WUI	
		3.c.	Number of critical facilities (including WUI and non-WUI)																							138										Number of critical facilities	
		3.d.	Number of critical facilities in WUI																							6										Number of critical facilities in WUI	
		3.e.	Number of customers (including WUI and non-WUI)																					1921		2468										Number of customers	
		3.f.	Number of customers in WUI																					1764		2113										Number of customers in WUI	
		3.g.	Number of customers belonging to access and functional needs populations (including WUI and non-WUI)																					38		30										Number of customers belonging to access and functional needs populations	
		3.h.	Number of customers belonging to access and functional needs populations in WUI																					37		30										Number of customers belonging to access and functional needs populations in WUI	
		3.i.	Circuit miles of overhead transmission lines (including WUI and non-WUI)																							0										Circuit miles of overhead transmission lines	
		3.j.	Circuit miles of overhead transmission lines in WUI																																	Circuit miles of overhead transmission lines in WUI	
		3.k.	Circuit miles of overhead distribution lines (including WUI and non-WUI)																					70		184										Circuit miles of overhead distribution lines	
		3.l.	Circuit miles of overhead distribution lines in WUI																					54		112										Circuit miles of overhead distribution lines in WUI	
		3.m.	Number of substations (including WUI and non-WUI)																					1		2										Number of substations	
		3.n	Number of substations in WUI																					1		1										Number of substations in WUI	
		3.o.	Number of weather stations (including WUI and non-WUI)																					3		9										Number of weather stations	
		3.p.	Number of weather stations in WUI																							5										Number of weather stations in WUI	

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Notes:
Transmission lines refer to all lines at or above 65kV, and distribution lines refer to all lines below 65kV. Report net additions using positive numbers and net removals and undergrounding using negative numbers for circuit miles and numbers of substations. Only report changes expected within the target year.
For example, if 20 net overhead circuit miles are planned for addition by 2023, with 15 being added by 2022 and 5 more added by 2023, then report "15" for 2022 and "5" for 2023. Do not report cumulative change across years. In this case, do not report "20" for 2023, but instead the number planned to be added for just that year, which is "5".

Table 9: Location of actual and planned utility equipment additions or removal year over year

				Actual							Projected								
				Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3	Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3	Non-HFTD	HFTD Zone 1	HFTD Tier 2	HFTD Tier 3		
	Metric type	**#**	**Outcome metric name**	**2020**	**2020**	**2020**	**2020**	**2021**	**2021**	**2021**	**2021**	**2022**	**2022**	**2022**	**2022**	**Unit(s)**	**Comments**
x	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)													Circuit miles	
		1.b.	Circuit miles of overhead distribution lines (including WUI and non-WUI)													Circuit miles	
		1.c.	Circuit miles of overhead transmission lines in WUI													Circuit miles in WUI	
		1.d.	Circuit miles of overhead distribution lines in WUI													Circuit miles in WUI	
		1.e.	Number of substations (including WUI and non-WUI)	0	0	0	0	0	0	-1	0	0	0	0	0	Number of substations	
		1.f.	Number of substations in WUI	0	0	0	0	0	0	-1	0	0	0	0	0	Number of substations in WUI	
		1.g.	Number of weather stations (including WUI and non-WUI)	0	0	1	0									Number of weather stations	TBD
		1.h.	Number of weather stations in WUI	0	0	1	0									Number of weather stations in WUI	TBD
x	2. Planned utility equipment net addition (or removal) year over year - in rural areas	2.a.	Circuit miles of overhead transmission lines (including WUI and non-WUI)													Circuit miles	
		2.b.	Circuit miles of overhead distribution lines (including WUI and non-WUI)													Circuit miles	
		2.c.	Circuit miles of overhead transmission lines in WUI													Circuit miles in WUI	
		2.d.	Circuit miles of overhead distribution lines in WUI													Circuit miles in WUI	
		2.e.	Number of substations (including WUI and non-WUI)	0	0	0	0	0	0	0	0	0	0	0	0	Number of substations	
		2.f.	Number of substations in WUI	0	0	0	0	0	0	0	0	0	0	0	0	Number of substations in WUI	
		2.g.	Number of weather stations (including WUI and non-WUI)	0	0	8	0									Number of weather stations	TBD
		2.h.	Number of weather stations in WUI	0	0	8	0									Number of weather stations in WUI	TBD
x	3. Planned utility equipment net addition (or removal) year over year - in highly rural areas	3.a.	Circuit miles of overhead transmission lines (including WUI and non-WUI)													Circuit miles	
		3.b.	Circuit miles of overhead distribution lines (including WUI and non-WUI)													Circuit miles	
		3.c.	Circuit miles of overhead transmission lines in WUI													Circuit miles in WUI	
		3.d.	Circuit miles of overhead distribution lines in WUI													Circuit miles in WUI	
		3.e.	Number of substations (including WUI and non-WUI)	0	0	0	0	0	0	0	0	0	0	0	0	Number of substations	
		3.f.	Number of substations in WUI	0	0	0	0	0	0	0	0	0	0	0	0	Number of substations in WUI	
		3.g.	Number of weather stations (including WUI and non-WUI)	2	0	8	0									Number of weather stations	TBD
		3.h.	Number of weather stations in WUI	0	0	0	0									Number of weather stations in WUI	TBD

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Table No.	10
Date Modified	3/1/2021

Notes:
Transmission lines refer to all lines at or above 65kV, and distribution lines refer to all lines below 65kV.
In future submissions update planned upgrade numbers with actuals
In the comments column on the far-right, enter the relevant program target(s) associated

Table 10: Location of actual and planned utility infrastructure upgrades year over year

	Metric type	#	Outcome metric name	Actual Non-HFTD 2020	Actual HFTD Zone 1 2020	Actual HFTD Tier 2 2020	Actual HFTD Tier 3 2020	Projected Non-HFTD 2021	Projected HFTD Zone 1 2021	Projected HFTD Tier 2 2021	Projected HFTD Tier 3 2021	Projected Non-HFTD 2022	Projected HFTD Zone 1 2022	Projected HFTD Tier 2 2022	Projected HFTD Tier 3 2022	Unit(s)	Comments
x	1. Planned utility infrastructure upgrades year over year - in urban areas	1.a.	Circuit miles of overhead transmission lines planned for upgrades (including WUI and non-WUI)					0	0	0	0	0	0	0	0	Circuit miles	
		1.b.	Circuit miles of overhead distribution lines planned for upgrades (including WUI and non-WUI)					0	0	1	0	0	0	1	0	Circuit miles	
		1.c.	Circuit miles of overhead transmission lines planned for upgrades in WUI					0	0	0	0	0	0	0	0	Circuit miles in WUI	
		1.d.	Circuit miles of overhead distribution lines planned for upgrades in WUI					0	0	1	0	0	0	1	0	Circuit miles in WUI	
		1.e.	Number of substations planned for upgrades (including WUI and non-WUI)	0	0	1	0	0	0	1	0	0	0	0	0	Number of substations	
		1.f.	Number of substations planned for upgrades in WUI	0	0	1	0	0	0	1	0	0	0	0	0	Number of substations in WUI	
		1.g.	Number of weather stations planned for upgrades (including WUI and non-WUI)	0	0	1	0	0	0	1	0	0	0	0	0	Number of weather stations	
		1.h.	Number of weather stations planned for upgrades in WUI	0	0	1	0	0	0	1	0	0	0	0	0	Number of weather stations in WUI	
x	2. Planned utility infrastructure upgrades year over year - in rural areas	2.a.	Circuit miles of overhead transmission lines planned for upgrades (including WUI and non-WUI)					0	0	0	0	0	0	0	3	Circuit miles	
		2.b.	Circuit miles of overhead distribution lines planned for upgrades (including WUI and non-WUI)					0	0	10	0	0	0	18	7	Circuit miles	
		2.c.	Circuit miles of overhead transmission lines planned for upgrades in WUI					0	0	0	0	0	0	0	0	Circuit miles in WUI	
		2.d.	Circuit miles of overhead distribution lines planned for upgrades in WUI					0	0	4	0	0	0	12	0	Circuit miles in WUI	
		2.e.	Number of substations planned for upgrades (including WUI and non-WUI)	0	0	0	0	0	0	2	1	1	0	0	0	Number of substations	
		2.f.	Number of substations planned for upgrades in WUI	0	0	0	0	0	0	2	1	1	0	0	0	Number of substations in WUI	
		2.g.	Number of weather stations planned for upgrades (including WUI and non-WUI)	0	0	0	0	0	0	2	1	1	0	0	0	Number of weather stations	
		2.h.	Number of weather stations planned for upgrades in WUI	0	0	0	0	0	0	2	1	1	0	0	0	Number of weather stations in WUI	
x	3. Planned utility infrastructure upgrades year over year - in highly rural areas	3.a.	Circuit miles of overhead transmission lines planned for upgrades (including WUI and non-WUI)					0	0	0	0	0	0	0	0	Circuit miles	
		3.b.	Circuit miles of overhead distribution lines planned for upgrades (including WUI and non-WUI)					0	0	0	0	0	0	0	0	Circuit miles	
		3.c.	Circuit miles of overhead transmission lines planned for upgrades in WUI					0	0	0	0	0	0	0	0	Circuit miles in WUI	
		3.d.	Circuit miles of overhead distribution lines planned for upgrades in WUI					0	0	0	0	0	0	0	0	Circuit miles in WUI	
		3.e.	Number of substations planned for upgrades (including WUI and non-WUI)	0	0	0	0	0	0	0	0	0	0	0	0	Number of substations	
		3.f.	Number of substations planned for upgrades in WUI	0	0	0	0	0	0	1	0	0	0	0	0	Number of substations in WUI	
		3.g.	Number of weather stations planned for upgrades (including WUI and non-WUI)	0	0	0	0	0	0	0	0	0	0	0	0	Number of weather stations	
		3.h.	Number of weather stations planned for upgrades in WUI	0	0	0	0	0	0	1	0	0	0	0	0	Number of weather stations in WUI	

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Notes:
"PSPS" = Public Safety Power Shutoff
In future submissions update planned upgrade numbers with actuals

Table 11: Recent use of PSPS and other PSPS metrics

			Actual									Projected									
Metric type	**#**	**Outcome metric name**	**2015**	**2016**	**2017**	**2018**	**2019**	Q1 **2020**	Q2 **2020**	Q3 **2020**	Q4 **2020**	Q1 **2021**	Q2 **2021**	Q3 **2021**	Q4 **2021**	Q1 **2022**	Q2 **2022**	Q3 **2022**	Q4 **2022**	**Unit(s)**	**Comments**
1. Recent use of PSPS	1.a.	Frequency of PSPS events (total)	0	0	0	1	0	0	0	0	0									Number of instances where utility operating protocol requires de-energization of a circuit or portion thereof to reduce ignition probability, per year. Only include events in which de-energization ultimately ocurred	
	1.b.	Scope of PSPS events (total)	0	0	0	3	0	0	0	0	0									Circuit-events, measured in number of events multiplied by number of circuits de-energized per year	
	1.c.	Duration of PSPS events (total)	0	0	0	90	0	0	0	0	0									Customer hours per year	
2. Customer hours of PSPS and other outages	2.a.	Customer hours of planned outages including PSPS (total)		5,124	7,025	31,470	113,282	30	16,743	1,522	31,517									Total customer hours of planned outages per year	
	2.b.	Customer hours of unplanned outages, not including PSPS (total)	112,599	111,988	133,267	75,720	246,866	6,294	10,143	47,305	84,162									Total customer hours of unplanned outages per year	
	2.c.	System Average Interruption Duration Index (SAIDI) (including PSPS)	358	214	1597	288	417	8	12	58	103									SAIDI index value = sum of all interruptions in time period where each interruption is defined as sum(duration of interruption * # of customer interruptions) / Total number of customers served	
	2.d.	System Average Interruption Duration Index (SAIDI) (excluding PSPS)	358	214	1597	288	417	8	12	58	103									SAIDI index value = sum of all interruptions in time period where each interruption is defined as sum(duration of interruption * # of customer interruptions) / Total number of customers served	
	2.e.	System Average Interruption Frequency Index (SAIFI) (including PSPS)	2	1	4	2	3	0	0	1	0									SAIFI index value = sum of all interruptions in time period where each interruption is defined as (total # of customer interruptions) / (total # of customers served)	
	2.f.	System Average Interruption Frequency Index (SAIFI) (excluding PSPS)	2	1	4	2	3	0	0	1	0									SAIFI index value = sum of all interruptions in time period where each interruption is defined as (total # of customer interruptions) / (total # of customers served)	
3. Critical infrastructure impacted by PSPS	3.a.	Critical infrastructure impacted by PSPS	0	0	0	0	0	0	0	0	0									Number of critical infrastructure (in accordance with D.19-05-042) locations impacted per hour multiplied by hours offline per year	
4. Community outreach of PSPS metrics	4.a.	# of customers impacted by PSPS	0	0	0	30	0	0	0	0	0									# of customers impacted by PSPS (if multiple PSPS events impact the same customer, count each event as a separate customer)	
	4.b.	# of medical baseline customers impacted by PSPS	0	0	0	0	0	0	0	0	0									# of customers impacted by PSPS (if multiple PSPS events impact the same customer, count each event as a separate customer)	
	4.c.	# of customers notified prior to initiation of PSPS event	0	0	0	0	0	0	0	0	0									# of customers notified of PSPS event prior to initiation (if multiple PSPS events impact the same customer, count each event in which customer was notified as a separate customer)	
	4.d.	# of medical baseline customers notified prior to initiation of PSPS event	0	0	0	0	0	0	0	0	0									# of customers notified of PSPS event prior to initiation (if multiple PSPS events impact the same customer, count each event in which customer was notified as a separate customer)	
	4.e.	% of customers notified prior to a PSPS event impacting them	0	0	0	0	0	0	0	0	0									=4.c. / 4.a.	
	4.f.	% of medical baseline customers notified prior to a PSPS event impacting them	0	0	0	0	0	0	0	0	0									=4.d. / 4.b.	
5. Other PSPS metrics	5.a.	Number of PSPS events triggered where no de-energization occurred	0	0	0	0	0	0	0	0	0									Number of instances where utility notified the public of a potential PSPS event but no de-energization followed	
	5.b.	Number of customers located on de-energized circuit	0	0	0	185	0	0	0	0	0									Number of customers	
	5.c.	Customer hours of PSPS per RFW OH circuit mile day	0	0	0	0.03	0	0	0	0	0									=1.c. / RFW OH circuit mile days in time period	
	5.d.	Frequency of PSPS events (total) - High Wind Warning wind conditions	0	0	0	0	0	0	0	0	0									Events over time period that overlapped with a High Wind Warning as defined by the National Weather Service	
	5.e.	Scope of PSPS events (total) - High Wind Warning wind conditions	0	0	0	30	0	0	0	0	0									Estimated customers impacted over time period that overlapped with a High Wind Warning as defined by the National Weather Service	
	5.f.	Duration of PSPS events (total) - High Wind Warning wind conditions	0	0	0	90	0	0	0	0	0									Customer hours over time period that overlapped with a High Wind Warning as defined by the National Weather Service	

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Notes:
Risk Spend Efficiency (RSE) is defined as "An estimate of the cost-effectiveness of initiative, calculated by dividing the mitigation risk reduction benefit by the mitigation cost estimate based on the full set of risk reduction benefits estimated from the incurred costs."
CAPEX = Capital expenditure; OPEX = Operating expenditure.
In future submissions update planned spend, line miles treated, RSE, etc. with updated projections and actuals. Additional instructions can be found in GR information.

Table 12: Mitigation initiative financials

Metric type	WMP Table # / Category	WMP Initiative #	Initiative activity	Primary driver targeted	Secondary driver targeted	Year initiated	Estimated RSE in non-HFTD region	Estimated RSE in HFTD Zone 1	Estimated RSE in HFTD Tier 2	Estimated RSE in HFTD Tier 3	If existing: must recent proceeding that has reviewed program	If new: memorandum account	Current compliance status - in / exceeding compliance with regulations	Associated rule(s) - if multiple, separate by semi-colon - ";"	If spend not disaggregated by this activity, note activity where relevant spend is tracked in or mark "general operations"	Alternative units in which initiative is reported (if not line miles); still required to report line miles	Comments	Actual CAPEX ($ thousands) 2020	Actual OPEX ($ thousands) 2020	Actual Line miles to be treated 2020	Actual Alternative units (if used) 2020	Projected CAPEX ($ thousands) 2021	Projected OPEX ($ thousands) 2021	Projected Line miles to be treated 2021	Projected Alternative units (if used) 2021	Projected CAPEX ($ thousands) 2022	Projected OPEX ($ thousands) 2022	Projected Line miles to be treated 2022	Projected Alternative units (if used) 2022
Other	Risk Assessment & Mapping	7.3.1.1.	A summarized risk map that shows the overall ignition probability and estimated wildfire consequence along the electric lines and equipment	Contact with vegetation	Equipment failure	2020	NA	NA	NA	NA	N/A							-	67,465	-	-	-	50,000	-	-	-	10,000	-	-
Other	Risk Assessment & Mapping	7.3.1.2.	Climate-driven risk map and modelling based on various relevant weather scenarios	PSPS - for sectionalization, etc.	Contact with vegetation	2020	NA	NA	NA	NA	N/A							-	-	-	-	-	-	-	-	-	-	-
Other	Risk Assessment & Mapping	7.3.1.3.	Ignition probability mapping showing the probability of ignition along the electric lines and equipment	Contact with vegetation	Other contact with object	2020	NA	NA	NA	NA	N/A							-	-	-	-	-	-	-	-	-	-	-
Other	Risk Assessment & Mapping	7.3.1.4.	Initiative mapping and estimation of wildfire and PSPS risk-reduction impact	PSPS - for sectionalization, etc.	Other contact with object	2021	NA	NA	NA	NA	N/A							-	-	-	-	-	-	-	-	-	-	-
Other	Risk Assessment & Mapping	7.3.1.5.	Match drop simulations showing the potential wildfire consequence of ignitions that occur along the electric lines and equipment	Other contact with object	Contact with vegetation	2020	NA	NA	NA	NA	N/A							-	-	-	-	-	-	-	-	-	-	-
Other	Situational Awareness & Forecasting	7.3.2.1.	Advanced weather monitoring and weather stations	PSPS - for sectionalization, etc.		2019	NA	NA	NA	NA	2020 WMP	WFMMA	Exceeds compliance with regulations		# of weather stations installed			242,879	-	-	20 weather stations	120,000	-	-	10 weather stations	15,000	-	-	1 weather station
Other	Situational Awareness & Forecasting	7.3.2.2.	Continuous monitoring sensors	Equipment failure			NA	171.56	171.56	171.56								158,125	-	-	-	50,000	115,000	-	-	100,000	115,000	-	-
Other	Situational Awareness & Forecasting	7.3.2.3.	Fault indicators for detecting faults on electric lines and equipment	Equipment failure			NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Situational Awareness & Forecasting	7.3.2.4.	Forecast of a fire risk index, fire potential index, or similar	PSPS - for sectionalization, etc.		2020	NA	NA	NA	NA	2020 WMP	WFMMA	Exceeds		N/A			-	44,313	-	-	-	10,000	-	-	-	10,000	-	-
Other	Situational Awareness & Forecasting	7.3.2.5.	Personnel monitoring areas of electric lines and equipment in elevated fire risk conditions	Equipment failure	Other contact with object	2019	NA	NA	NA	NA					Personnel work procedures and training in conditions of elevated fire risk			-	-	-	-	-	-	-	-	-	-	-
Other	Situational Awareness & Forecasting	7.3.2.6.	Weather forecasting and estimating impacts on electric lines and equipment	PSPS - for sectionalization, etc.			NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.1.	Capacitor maintenance and replacement program	Equipment failure		2011	NA	NA	NA	NA			In compliance GO 165	GO 165				-	-	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.2.	Circuit breaker maintenance and installation to de-energize lines upon detecting a fault	Equipment failure		TBD	NA	NA	NA	NA			Exceeds compliance with regulations					-	-	-	-	500,000	-	-	-	1,500,000	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.3.	Covered conductor installation	Other contact with object	Equipment failure	2019	NA	0.27	0.27	0.27	2020 WMP		In compliance with R20A	R20A				7,820,185	-	-	-	16,564,617	-	-	-	12,034,498	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.4.	Covered conductor maintenance			TBD	NA	NA	NA	NA				TBD				-	-	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.5.	Crossarm maintenance, repair, and replacement	Equipment failure		2021	NA						In compliance with GO95, GO 165	GO 95; GO165				89,121	5,450	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.6.	Distribution pole replacement and reinforcement, including with composite poles	Equipment failure		2011					2020 WMP		In compliance GO 165	GO 165				3,653,519	-	-	-	10,605,000	-	-	-	2,630,250	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.7.	Expulsion fuse replacement	Equipment failure		2011	2.29	2.29	2.29	2.29	2020 WMP		In compliance GO 165	GO 165				737,609	-	-	853	1,200,000	-	-	1,500	1,702,260	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.8.	Grid topology improvements to mitigate or reduce PSPS events	PSPS - for sectionalization, etc.		2011					2020 WMP		In compliance with R20A	R20A				671,872	-	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.9.	Installation of system automation equipment	PSPS - for sectionalization, etc.		2011					2020 WMP		Exceeds compliance with regulations					453,588	-	-	-	300,000	-	-	-	360,000	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.10.	Maintenance, repair, and replacement of connectors, including hotline clamps			2011							In compliance GO 174	GO 174				-	-	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.11.	Mitigation of impact on customers and other residents affected during PSPS event			2020							Exceeds compliance with regulations					-	-	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.12.	Other corrective action			TBD								TBD				1,357,691	14,861	-	-	2,360,000	-	-	-	2,501,500	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.13.	Pole loading infrastructure hardening and replacement program based on pole loading assessment program	Equipment failure		2011	0.80	0.80	0.80	0.80	2020 WMP		In compliance GO 165	GO 165				-	-	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.14.	Transformers maintenance and replacement			2011	NA	NA	NA	NA			In compliance GO 165, GO 95	GO 95; GO 165				-	-	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.15.	Transmission tower maintenance and replacement			2019	NA	NA	NA	NA			Exceeds compliance with regulations					-	-	-	-	-	-	-	-	-	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.16.	Undergrounding of electric lines and/or equipment	Other contact with object	Equipment failure	TBD	0.44	0.44	0.44	0.44	2020 WMP		Exceeds compliance with regulations					522,414	-	-	-	1,445,414	-	-	-	7,654,120	-	-
Grid hardening	Grid Design & System Hardening	7.3.3.17.	Updates to grid topology to minimize risk of ignition in HFTDs	Equipment failure	Other contact with object	2020					2020 WMP		Exceeds compliance with regulations					-	-	-	-	-	-	-	-	-	-	-
Asset inspection	Asset Management & Inspections	7.3.4.1.	Detailed inspections of distribution electric lines and equipment	Equipment failure	Other contact with object	2011	0	0	0	0	2019 GRC		In Compliance	GO95; GO128; GO165	Detailed inspections of distribution electric lines and equipment	Detailed inspections of distribution electric lines and equipment	Liberty CalPeco does not have separate programs for distribution and transmission inspections	-	837,622	-	-	-	200,000	-	-	-	300,000	-	-
Asset inspection	Asset Management & Inspections	7.3.4.2.	Detailed inspections of transmission electric lines and equipment	Equipment failure	Other contact with object	2011	0	0	0	0	2019 GRC		In Compliance	GO95; GO128; GO165	Detailed inspections of transmission electric lines and equipment	Detailed inspections of transmission electric lines and equipment	Liberty CalPeco does not have separate programs for distribution and transmission inspections	-	-	-	-	-	-	-	-	-	-	-
Asset inspection	Asset Management & Inspections	7.3.4.3.	Improvement of inspections	Equipment failure	Other contact with object	2020	0	0	0	0	2020 WMP		In Compliance	GO95; GO128; GO165	Improvement of inspections	Improvement of inspections		-	-	-	-	-	150,000	-	-	-	150,000	-	-
Asset inspection	Asset Management & Inspections	7.3.4.4.	Infrared inspections of distribution electric lines and equipment	Equipment failure	Other contact with object	2021	0	0	0	0	N/A		In Compliance		Infrared inspections of distribution electric lines and equipment	Infrared inspections of distribution electric lines and equipment	RFP in 2021, pilot in 2022	-	-	-	-	-	35,000	-	-	-	200,000	-	-
Asset inspection	Asset Management & Inspections	7.3.4.5.	Infrared inspections of transmission electric lines and equipment	Equipment failure	Other contact with object	2021	0	0	0	0	N/A		In Compliance		Infrared inspections of transmission electric lines and equipment	Infrared inspections of transmission electric lines and equipment	RFP in 2021, pilot in 2022	-	-	-	-	-	-	-	-	-	-	-
Asset inspection	Asset Management & Inspections	7.3.4.6.	Intrusive pole inspections	Equipment failure	Other contact with object	2011	0	0	0	0	2019 GRC		In Compliance	GO95; GO165	Intrusive pole inspections	Intrusive pole inspections		-	10,404	-	-	-	147,000	-	-	-	101,626	-	-
Asset inspection	Asset Management & Inspections	7.3.4.7.	LiDAR inspections of distribution electric lines and equipment	Equipment failure	Other contact with object	0	0	0	0	0	N/A		In Compliance		LiDAR inspections of distribution electric lines and equipment	LiDAR inspections of distribution electric lines and equipment	No plans for LiDAR inspections this filing	-	-	-	-	-	-	-	-	-	-	-
Asset inspection	Asset Management & Inspections	7.3.4.8.	LiDAR inspections of transmission electric lines and equipment	Equipment failure	Other contact with object	0	0	0	0	0	N/A		In Compliance		LiDAR inspections of transmission electric lines and equipment	LiDAR inspections of transmission electric lines and equipment	No plans for LiDAR inspections this filing	-	-	-	-	-	-	-	-	-	-	-
Asset inspection	Asset Management & Inspections	7.3.4.9.	Other discretionary inspection of distribution electric lines and equipment, beyond inspections mandated by rules and regulations	Equipment failure	Other contact with object	2020	0	0	0	0	2020 WMP		Exceeds Compliance	GO95; GO128; GO165	Other discretionary inspection of distribution electric lines and equipment, beyond inspections mandated by rules and regulations	Other discretionary inspection of distribution electric lines and equipment, beyond inspections mandated by rules and regulations	System Survey completed in 2020	-	-	-	-	-	2,300,000	-	-	-	-	-	-
Asset inspection	Asset Management & Inspections	7.3.4.10.	Other discretionary inspection of transmission electric lines and	Equipment failure	Other contact with object	2020	0	0	0	0	2020 WMP		Exceeds Compliance	GO95; GO128; GO165	Other discretionary inspection of transmission electric lines and	Other discretionary inspection of transmission electric lines and	System Survey completed in 2020	2,994,266	-	-	-	-	-	-	-	-	-	-
Asset inspection	Asset Management & Inspections	7.3.4.11.	Patrol inspections of distribution electric lines and equipment	Equipment failure	Other contact with object	2011	0	0	0	0	2019 GRC		In Compliance	GO95; GO165	Patrol inspections of distribution electric lines and equipment	Patrol inspections of distribution electric lines and equipment	Liberty CalPeco does not have separate programs for distribution and transmission inspections	-	-	-	-	-	-	-	-	-	-	-
Asset inspection	Asset Management & Inspections	7.3.4.12.	Patrol inspections of transmission electric lines and equipment	Equipment failure	Other contact with object	2011	0	0	0	0	2019 GRC		In Compliance	GO95; GO165	Patrol inspections of transmission electric lines and equipment	Patrol inspections of transmission electric lines and equipment	Liberty CalPeco does not have separate programs for distribution and transmission inspections	-	-	-	-	-	-	-	-	-	-	-
Asset inspection	Asset Management & Inspections	7.3.4.13.	Pole loading assessment program to determine safety factor	Equipment failure	Other contact with object	2013	0	0	0	0	2019 GRC		In Compliance	GO95	Pole loading assessment program to determine safety factor	Pole loading assessment program to determine safety factor		-	-	-	-	-	100,000	-	-	-	100,000	-	-
Asset inspection	Asset Management & Inspections	7.3.4.14.	Quality assurance / quality control of inspections	Equipment failure	Other contact with object	2021	0	0	0	0	N/A		In Compliance	GO95; GO128; GO165	Quality assurance / quality control of inspections	Quality assurance / quality control of inspections	RFP in 2021, pilot in 2022	-	-	-	-	-	35,000	-	-	-	200,000	-	-
Asset inspection	Asset Management & Inspections	7.3.4.15.	Substation inspections	Equipment failure	Other contact with object	2016	0	0	0	0	2019 GRC		In Compliance	GO174	Substation inspections	Substation inspections		-	-	-	-	-	10,000	-	-	-	10,000	-	-
Vegetation management project	Vegetation Management & Inspections	7.3.5.1.	Additional efforts to manage community and environmental impacts	Contact with vegetation		2020					2020 WMP	WMPMA	Exceeding	GO 95 Rule 35; PRC 4293				-	771,043	-	-	-	750,000	-	-	-	772,100	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.2.	Detailed inspections of vegetation around distribution electric lines and equipment	Contact with vegetation		2011	0.27	0.27	0.27	0.27	2019 GRC		Exceeding	GO 95 Rule 35; PRC 4293		Number of trees inspected resulting in a work order		-	515,763	-	-	-	610,000	-	-	-	628,300	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.3.	Detailed inspections of vegetation around transmission electric lines and equipment															-	-	-	-	-	-	-	-	-	-	-
Vegetation management project	Vegetation Management & Inspections	7.3.5.4.	Emergency response vegetation management due to red flag warning or other urgent conditions															-	-	-	-	-	-	-	-	-	-	-
Vegetation management project	Vegetation Management & Inspections	7.3.5.5.	Fuel management and reduction of "slash" from vegetation management activities	Equipment failure		2020					2020 WMP	WMPMA	Exceeding	PRC 4291; PRC 4292				-	354,689	-	-	-	2,000,000	-	-	-	2,000,000	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.6.	Improvement of inspections				0.27	0.27	0.27	0.27								-	-	-	-	-	-	-	-	-	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.7.	LiDAR inspections of vegetation around distribution electric lines and equipment	Contact with vegetation		2020						WMPMA	Exceeding	GO 95 Rule 35; PRC 4293				369,298	-	320	-	400,000	420,000	328	-	820,000	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.8.	LiDAR inspections of vegetation around transmission electric lines and equipment															-	-	-	-	-	-	-	-	-	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.9.	Other discretionary inspections of vegetation around distribution electric lines and equipment	Contact with vegetation		2020					2020 WMP	WMPMA	Exceeding	GO 95 Rule 35; PRC 4293		Number of trees inspected resulting in a work order		-	85,139	-	-	-	-	-	-	-	-	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.10.	Other discretionary inspections of vegetation around transmission electric lines and equipment															-	-	-	-	-	-	-	-	-	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.11.	Patrol inspections of vegetation around distribution electric lines and equipment	Contact with vegetation		2018					2019 GRC					Number of trees inspected resulting in a work order		-	420,800	-	-	-	450,000	-	-	-	465,000	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.12.	Patrol inspections of vegetation around transmission electric lines and equipment															-	NA	-	-	-	-	-	-	-	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.13.	Quality assurance / quality control of vegetation inspections	Contact with vegetation		2020	NA	NA	NA	NA	2020 WMP	WMPMA						-	67,033	-	-	-	250,000	-	-	-	250,000	-	-
Vegetation management project	Vegetation Management & Inspections	7.3.5.14.	Recruiting and training of vegetation management personnel				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Vegetation management project	Vegetation Management & Inspections	7.3.5.15.	Remediation of at-risk species	Contact with vegetation		2011					2019 GRC		Exceeding	GO 95 Rule 35; PRC 4293		Number of trees pruned or removed		-	7,138,323	-	-	-	5,100,000	-	-	-	5,150,000	-	-
Vegetation management project	Vegetation Management & Inspections	7.3.5.16.	Removal and remediation of trees with strike potential to electric lines and equipment	Contact with vegetation		2018					2019 GRC		Exceeding	GO 95 Rule 35; PRC 4293		Number of trees pruned or removed		-	2,722,560	-	-	-	2,200,000	-	-	-	2,200,000	-	-
Vegetation inspection	Vegetation Management & Inspections	7.3.5.17.	Substation inspection				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Vegetation management project	Vegetation Management & Inspections	7.3.5.18.	Substation vegetation management				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Vegetation management project	Vegetation Management & Inspections	7.3.5.19.	Vegetation inventory system				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Vegetation management project	Vegetation Management & Inspections	7.3.5.20.	Vegetation management to achieve clearances around electric lines and equipment	Contact with vegetation		2011					2019 GRC		Exceeding	GO 95 Rule 35; PRC 4293				-	-	-	-	-	1,000,000	-	-	-	1,500,000	-	-
Other	Grid Operations & Operating Protocols	7.3.6.1.	Automatic recloser operations	Contact with vegetation	Equipment failure	2011	NA	NA	NA	NA	2020 WMP	WMPMA	In compliance					-	-	-	-	-	-	-	-	-	-	-
Other	Grid Operations & Operating Protocols	7.3.6.2.	Crew-accompanying ignition prevention and suppression resources and services				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Grid Operations & Operating Protocols	7.3.6.3.	Personnel work procedures and training in conditions of elevated fire risk				NA	NA	NA	NA								-	278,576	-	-	-	250,000	-	-	-	250,000	-	-
Other	Grid Operations & Operating Protocols	7.3.6.4.	Protocols for PSPS re-energization	PSPS - for sectionalization, etc.	Other contact with object	2020	NA	NA	NA	NA	GO 166	WMPMA	In compliance					-	-	-	-	-	-	-	-	-	-	-
Other	Grid Operations & Operating Protocols	7.3.6.5.	PSPS events and mitigation of PSPS impacts				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Grid Operations & Operating Protocols	7.3.6.6.	Stationed and on-call ignition prevention and suppression resources and services				NA	NA	NA	NA								92,731	-	-	-	298,000	-	-	-	200,000	-	-
Other	Data Governance	7.3.7.1.	Centralized repository for data				NA	NA	NA	NA								-	-	-	-	-	162,500	-	-	-	165,875	-	-
Other	Data Governance	7.3.7.2.	Collaborative research on utility ignition and/or wildfire	Contact with vegetation	Other contact with object	2021	NA	NA	NA	NA	2020 WMP	WMPMA	In compliance					-	1,138	-	-	-	250,000	-	-	-	85,000	-	-
Other	Data Governance	7.3.7.3.	Documentation and disclosure of wildfire-related data and algorithms				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Data Governance	7.3.7.4.	Tracking and analysis of near miss data				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Resource Allocation Methodology	7.3.8.1.	Allocation methodology development and application				NA	NA	NA	NA								-	-	-	-	-	129,750	-	-	-	254,925	-	-
Other	Resource Allocation Methodology	7.3.8.2.	Risk reduction scenario development and analysis				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Resource Allocation Methodology	7.3.8.3.	Risk spend efficiency analysis				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Emergency Planning & Preparedness	7.3.9.1.	Adequate and trained workforce for service restoration	PSPS - for sectionalization, etc.	Other contact with object	2011	NA	NA	NA	NA	2020 WMP	WMPMA	In compliance					-	502,233	-	-	-	899,598	-	-	-	1,304,068	-	-
Other	Emergency Planning & Preparedness	7.3.9.2.	Community outreach, public awareness, and communications efforts				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Emergency Planning & Preparedness	7.3.9.3.	Customer support in emergencies				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Emergency Planning & Preparedness	7.3.9.4.	Disaster and emergency preparedness plan				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Emergency Planning & Preparedness	7.3.9.5.	Preparedness and planning for service restoration	PSPS - for sectionalization, etc.	Equipment failure	2011	NA	NA	NA	NA	2020 WMP		In compliance					-	-	-	-	-	-	-	-	-	-	-
Other	Emergency Planning & Preparedness	7.3.9.6.	Protocols in place to learn from wildfire events				NA	NA	NA	NA								-	-	-	-	-	-	-	-	-	-	-
Other	Stakeholder Cooperation & Community Engagement	7.3.10.1.	Community engagement			2019	NA	NA	NA	NA	2020 WMP	WMPMA	Exceeds	P.U. Code § 451				-	92,084	-	-	-	251,250	-	-	-	390,375	-	-
Other	Stakeholder Cooperation & Community Engagement	7.3.10.2	Cooperation and best practice sharing with agencies outside CA															-	-	-	-	-	-	-	-	-	-	-
Other	Stakeholder Cooperation & Community Engagement	7.3.10.3	Cooperation with suppression agencies															-	-	-	-	-	-	-	-	-	-	-
Other	Stakeholder Cooperation & Community Engagement	7.3.10.4	Forest service and fuel reduction cooperation and joint roadmap															-	-	-	-	-	-	-	-	-	-	-
																		$ 19,161,628	$ 14,169,467	-	-	$ 33,773,031	$ 18,234,098	-	-	$ 32,777,628	$ 17,432,269	-	-