1 Persons responsible for executing the WMP

Provide an accounting of the responsibilities of the responsible person(s) executing the plan, including:

- 1. Executive level with overall responsibility
- 2. Program owners specific to each component of the plan

Ensure that the plan components described in (2) include an accounting for each of the WMP sections and subsections.

See BVES 2020 WMP, Section 1.2.

2.1 Lessons learned: how tracking metrics on the 2019 plan has informed the 2020 plan

Describe how the utility's plan has evolved since the 2019 WMP submission. Outline any major themes and lessons learned from the 2019 plan and subsequent implementation of the initiatives. In particular, focus on how utility performance against the metrics used has informed the utility's 2020 WMP.

See BVES 2020 WMP, Section 2.1

Table 1: Recent performance on progress metrics, last 5 years

#		Progress met	ric name			Ann	ual performance			Unit(s)	Comments	
					2015	2016	2017	2018	2019			
		Findings per	Lev	rel 1	N/A	N/A	0.00000	0.00000	0.00949			
		mile of circuit	Lev	vel 2	N/A	N/A	0.40321	0.25615	0.36526		Prior to 2017, inspection and other data which	
		in HFTD	Lev	vel 3	N/A	N/A	3.34424	14.93762	0.82539		had been being maintained in a database system	
			Patrol	Level 1	N/A	N/A	0.00000	0.00000	0.00949	Number of Level 1, 2, and 3 findings per mile of circuit in HFTD, and per	called Automated Line Patrol System (ALPS) were	
	Grid condition		Inspections	Level 2	N/A	N/A	0.36526	0.23244	0.23718	total miles of circuit for each of the following inspection types:	migrated to a new database system called	
1	1 findings from Findings pe		inspections	Level 3	N/A	N/A	1.70296	12.86466	0.09962	1. Patrol inspections	"Partner." While the old database has been	
	inspection total circuit miles by inspection inspection			Level 1	N/A	N/A	0.00000	0.00000	0.00000	Detailed inspections	archived and retained, data prior to 2017 is not readily available. During that transition all level	
				Level 2	N/A	N/A	0.00000	0.00000	0.12808	Other inspection types	2 or 3 deficiencies had either been corrected or	
	inspection type		inspections	Level 3	N/A	N/A	0.00474	0.01423	0.72577		were entered into the new Partner system for	
			Other	Level 1	N/A	N/A	0.00000	0.00000	0.00000		tracking and remediation.	
			Inspection	Level 2	N/A	N/A	0.03795	0.02372	0.00000		tracking and remediation.	
			Types	Level 3	N/A	N/A	1.63654	2.05873	0.00000			
2	Iypes Level 3			ection	N/A	N/A	N/A	N/A	0.02	Percentage of right-of-way with noncompliant clearance based on applicable rules and regulations at the time of inspection, as a percentage of all right-of-way inspected	2019 figure is from October to December. Unable to locate any data prior to October 2019 with the granularity needed to respond.	
3	Extent of grid		1. In HFTD		144	144	144	144	144	Number of sectionalizing devices per circuit mile plus number of automated grid control equipment in:	Entire BVES serice terrirotory is in HTFD 2 or 3.	
	modularization		2. In Non-HFTE)	N/A	N/A	N/A	N/A	N/A	1. HFTD 2. Non-HFTD	·	
4	Data collection and reporting							97.10%	Percent of data requested in SDR and WMP collected in initial submission			

Note: Values for Table 1.1 "Grid condition findings from inspection" were calculated by dividing the total number of findings of each type by the total number of overhead circuit miles in BVES service territory, assuming underground circuits are unaffected by wind conditions. Including underground circuit miles in this calculation would deflate the actual assessment of risk posed by wind and other wildfire-risk conditions.

Table 2: Recent performance on outcome metrics, last 5 years

				Δε	nual performa	ince			
Metric type		Outcome metric name	2015	2016	2017	2018	2019	Unit(s)	Comments
	1.a.	Number of all events (such as unplanned outages, faults, conventional blown fuses, etc.) that could result in ignition, by two according to utility provided list (total).	28	58	35	20	15	Number per year	
1. Near misses	1.b.	for type according to utility-provided list (total). Number of all events (such as unplanned outages, faults, conventional blown fuses, etc.) that could result in ignition, by type according to utility-provided list (normalized).	0.04553	0.01942	0.01057	0.00896	0.01124	Number per RFW circuit mile day per year	
	1.c.	Number of wires down (total)	0	3	0	0	3	Number of wires down per year	
	1.d.	Number of wires down (normalized)	0.00000	0.00100	0.00000	0.00000	0.00225	Number per RFW circuit mile day per year	
	2.a.	Number of Level 1 findings that could increase the probability of ignition discovered per circuit mile inspected	N/A	N/A	0	0	0	Average number of Level 1 findings that could increase the probability of ignition discovered by all inspections per circuit mile per year	Prior to 2017, inspection and other data which had been being maintained in a database system called Automated Line Patrol
2. Utility inspection findings	2.b.	Number of Level 2 findings that could increase the probability of ignition discovered per circuit mile inspected	N/A	N/A	0	0	0	Average number of Level 2 findings that could increase the probability of ignition discovered by all inspections per circuit mile ner year.	System (ALPS) were migrated to a new database system called "Partner." While the old database has been archived and retained, data prior to 2017 is not readily available. During that transition all
	2.c.	Number of Level 3 findings that could increase the probability of ignition discovered per circuit mile inspected	N/A	N/A	0	0	0	Average number of Level 3 findings that could increase the probability of ignition discovered by all inspections per circuit mile per year	level 1, 2 or 3 deficiencies had either been corrected or were entere into the new Partner system for tracking and remediation.
	3.a.	Customer hours of planned outages including PSPS (total)	1,467	2,112	88,412	6,725	782	Total customer hours of planned outages per year	
	3.b.	Customer hours of planned outages including PSPS (normalized)	2.38563	0.70717	26.69925	3.01434	0.58574	Total customer hours of planned outages per RFW circuit mile day per year	
3. Customer hours of PSPS and other outages	3.c.	Customer hours of unplanned outages, not including PSPS (total)	73,785	129,310	155,513	73,619	121,869	Total customer hours of unplanned outages per year	
	3.d.	Customer hours of unplanned outages, not including PSPS (normalized)	119.98873	43.29752	46.96287	32.99817	91.28356	Total customer hours of unplanned outages per RFW circuit	
	3.e.	Increase in System Average Interruption Duration Index (SAIDI)	0	0	0	0	0	mile day per year Change in minutes compared to the previous year	
	4.a.	Fatalities due to utility-ignited wildfire (total)	0	0	0	0	ő	Number of fatalities per year	BVES has not had any utility-ignited wildfires
Utility ignited wildfire fatalities	4.b.	Fatalities due to utility-ignited wildfire (normalized)	0	0	0	0	0	Number of fatalities per RFW circuit mile day per year	BVES has not had any utility-ignited wildfires
5. Accidental deaths resulting from utility wildfire mitigation initiatives	5.a.	Deaths due to utility wildfire mitigation activities (total)	0	0	0	0	0	Number of fatalities per year	
6. OSHA-reportable injuries from utility wildfire mitigation initiatives	6.a.	CSMA-reportable injuries due to utility wildfire mitigation activities (total)	0	0	0	1	0	Number of OSHA-reportable injuries per year	On July 19, 2018, a line worker and the owner of Teele Tree Services made contact with a high voltage power line and sustained non-fata injuries. The injury did not require reporting under CalOSHA guidelines but 8VES chose to report the incident.
	6.b.	OSHA-reportable injuries due to utility wildfire mitigation activities (normalized)	0	0	0	4.74361	0	Number of OSHA-reportable injuries per year per 1000 line miles of grid	BVES has only 210.81 miles of OH lines. Navigant Consulting interpreted this question to mean BVES would have 0.21081 "thousand line miles of axid."
	7.a.	Value of assets destroyed by utility-ignited wildfire (total)	0	0	0	0	0	Dollars of damage or destruction per year	BVES has not had any utility-ignited wildfires
Value of assets destroyed by utility-ignited wildfire, listed by asset type	7.b.	Value of assets destroyed by utility-ignited wildfire (normalized)	0	0	0	0	0	Dollars of damage or destruction per RFW circuit mile day per wear	BVES has not had any utility-ignited wildfires
8. Structures damaged or destroyed by utility-ignited wildfire	8.a.	Number of structures destroyed by utility-ignited wildfire (total)	0	0	0	0	0	Number of structures destroyed per year	BVES has not had any utility-ignited wildfires
	8.b.	Number of structures destroyed by utility-ignited wildfire (normalized)	0	0	0	0	0	Number of structures destroyed per RFW circuit mile day per wear	BVES has not had any utility-ignited wildfires
Acreage burned by utility-ignited wildfire	9.a.	Acreage burned by utility-ignited wildfire (total)	0	0	0	0	0	Acres burned per year	BVES has not had any utility-ignited wildfires
		Acreage burned by utility-ignited wildfire (normalized)	0	0	0	0	0	Acres burned per RFW circuit mile day per year	BVES has not had any utility-ignited wildfires
	10.a.	Number of ignitions (total) according to existing ignition data reporting requirement	0	0	0	0	0	Number per vear	BVES had not had any ignitions
	10.b. 10.c.	Number of lenitions (normalized) Number of lenitions in HFTD (subtotal)	0	0	0	0	0	Number per RFW circuit mile day per year	BVES had not had any ignitions BVES had not had any ignitions
	10.c.i.	Number of ignitions in HFTD (subtotal) Number of ignitions in HFTD Zone 1	0	0	0	0	0	Number in HFTD per year	BVES had not had any ignitions BVES had not had any ignitions
		Number of lenitions in HF1D Zone 1 Number of lenitions in HFTD Tier 2	0	0	0	0	0	Number in HFTD Zone 1 per year Number in HFTD Tier 2 per year	BVES had not had any ignitions
	10.c.iii.	Number of ignitions in HFTD Tier 3	0	0	0	0	0	Number in HFTD Tier 3 per year	BVES had not had any ignitions
10. Number of utility wildfire ignitions	10.d.	Number of ignitions in HFTD (subtotal, normalized)	0	0	0	0	0	Number in HFTD per RFW circuit mile day per year	BVES had not had any ignitions
20. resinger or active whenter generally	10.d.i.	Number of ignitions in HFTD Zone 1 (normalized)	0	0	0	0	0	Number in HFTD Zone 1 per RFW circuit mile day per year	BVES had not had any ignitions
	10.d.ii.	Number of ignitions in HFTD Tier 2 (normalized)	0	0	0	0	0	Number in HFTD Tier 2 per RFW circuit mile day per year	BVES had not had any ignitions
	10.d.iii.	Number of ignitions in HFTD Tier 3 (normalized)	0	0	0	0	0	Number in HFTD Tier 3 per RFW circuit mile day per year	BVES had not had any ignitions
	10.e.	Number of ignitions in non-HFTD (subtotal)	0	0	0	0	0	Number in non-HFTD per year	BVES had not had any ignitions
	10.f.	Number of ignitions in non-HFTD (normalized)	0	0	0	0	0	Number in non-HFTD per RFW circuit mile day per year	BVES had not had any ignitions
11. Critical infrastructure impacted		Nominee or agrecions in non-error originalizate) Critical infrastructure impacted by PSPS	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	BVES has not needed to initiate any PSPS events
11. Croca minastructure impacted	11.b.	Critical infrastructure impacted by PSPS (normalized)	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 RFW circuit mile day per year	BVES has not needed to initiate any PSPS events

Table 3: List and description of additional metrics, last 5 year

		260							
Netric Category	Metric			Performance			Linits	Underlying assumptions	Third-party validation
etric Category	MARCING.	2015	2016	2017	2018	2019	Onits	Onservying assumptions	THIRD-party variousion
Overall Plan	Number of reportable fire incidents (D14-02-015 Appendix C: Fire Incident Data Collection Plan)	N/A	N/A	N/A	N/A	0	Number of incidents	Assess overall effectiveness of the plan	Contracted 3rd party analysts or academic researchers could revi- open as well as closed work orders, BVES GIS databases, staff interviews, as well as spot-checking select items for confirmation status.
	Number of bare line contact with vegetation	N/A	N/A	N/A	N/A	0	Number of contact events	Assess if plan has reduced risk events	
	Number of live wire down events	N/A	N/A	N/A	N/A	0	Number of events	Assess if plan has reduced risk events	
	Number of conventional blown fuse events	N/A	N/A	N/A	N/A	1	Number of events	Assess if plan has reduced risk events	
	Number of poles assessed Number of poles that failed assessment (wind loading, age, deterioraton, unfixable GO-	N/A	N/A	N/A	N/A	553	Number of poles	Determine if plan is on schedule	
	95 violation)	N/A	N/A	N/A	N/A	384	Numer of poles	Determine if plan is on schedule	
	Number of poles replaced as a result of failed assessments	N/A	N/A	N/A	N/A	215	Number of poles	Determine if plan is on schedule	Contracted 3rd party analysts or academic researchers could rev open as well as closed work orders. BVES GIS databases, staff
frastructure	Number of poles remediated as a result of failed assessments	N/A	N/A	N/A	N/A	61	Number poles	Determine if plan is on schedule	interviews, as well as spot-checking select items for confirmation
	Number of Tree Attachments Removed	N/A	N/A	N/A	N/A	43	Number of attachments	Determine if plan is on schedule	status.
	Number of new poles installed as a result of Tree Attachments Removed	N/A	N/A	N/A	N/A	9	Number of poles	Determine if plan is on schedule	
	Length of Bare Wire Covered (Circuit Miles)	N/A	N/A	N/A	N/A	1	Length of wire (circuit miles)	Determine if plan is on schedule	
	Number of conventional fuses replaced by current limiting fuses	N/A	N/A	N/A	N/A	285	Number of fuses	Determine if plan is on schedule	
	Number of conventional fuses replaced by fused trip savers (vacuum style)	N/A N/A	N/A N/A	N/A N/A	N/A N/A	8 3.374	Number of fuses	Determine if plan is on schedule Access overall system hardening	
	Number of Conventional fuses in system Percent of 34.5 kV System that is Overhead Bare Wire	N/A N/A	N/A N/A	N/A N/A	N/A N/A	93,93%	Percent of 34.5 kV circuit miles	Assess overall system hardening Assess overall system hardening	
	Percent of 34.5 kV System that is Overhead Bare Wire Percent of 34.5 kV System that is Underground	N/A	N/A N/A	N/A N/A	N/A N/A	2.74%	Percent of 34.5 kV circuit miles	Assess overall system hardening	Contracted 3rd party analysts or academic researchers could rev
	Percent of 34.5 kV System that is Covered Wire	N/A	N/A	N/A	N/A N/A	3 33%	Percent of 34.5 kV circuit miles	Assess overall system hardening	open as well as closed work orders. BVES GIS databases, staff
em Hardening	Percent of 4 kV System that is Overhead Bare Wire	N/A	N/A	N/A	N/A	71.56%	Percent of 4 kV circuit miles	Assess overall system hardening	interviews, as well as spot-checking select items for confirmation
	Percent of 4 kV System that is Underground	N/A	N/A	N/A	N/A	28.44%	Percent of 4 kV circuit miles	Assess overall system hardening	status.
	Percent of 4 kV System that is Covered Wire	N/A	N/A	N/A	N/A	0.00%	Percent of 4 kV circuit miles	Assess overall system hardening	
	Number of Tree Attachments Remaining in System	N/A	N/A	N/A	N/A	973	Number of attachments	Assess overall system hardening	
	Number of "Urgent" Vegetation Orders Issued (must be corrected w/30 days)	N/A	N/A	N/A	N/A	34	Number of orders	Assess if vegetation management plan has reduced risk events	
	Number of "Urgent" Vegetation Orders Outstanding	N/A	N/A	N/A	N/A	0	Number of orders	Determine if plan is on schedule	
	Number of Trees Trimmed	N/A	N/A	N/A	N/A	5,378	Number of trees	Determine if plan is on schedule	
	Number of Trees Removed	N/A N/A	N/A N/A	N/A N/A	N/A N/A	87 30.61%	Number of trees Percent of OH system	Determine if plan is on schedule Determine if plan is on schedule	
	Percent of OH System Cleared by Tree Trimming Crews								
	Number of Level 1 GO-95 Potential Non-Compliance (Immediate risk of high potential impact to safety or reliability) Items Idendified Number of Level 1 GO-95 Potential Non-Compliance (Immediate risk of high potential	N/A	N/A	N/A	N/A	0	Number of Items	Determine if plan is on schedule	
	Number of Level 1 GD-95 Potential Non-Compliance (Immediate risk of high potential impact to safety or reliability) Items Outstanding	N/A	N/A	N/A	N/A	0	Number of Items	Determine if plan is on schedule	
	Number of Level 2 GO-95 Potential Non-Compliance (Any other risk of at least moderate potential impact to safety or reliability) Items idendified	N/A	N/A	N/A	N/A	52	Number of Items	Determine if plan is on schedule	Contracted 3rd party analysts or academic researchers could revi
Operations	Number of Level 2: GO-95 Potential Non-Compliance (Any other risk of at least moderate potential impact to safety or reliability) Items Outstanding	N/A	N/A	N/A	N/A	0	Number of Items	Determine if plan is on schedule	open as well as closed work orders, BVES GIS databases, staff interviews, as well as spot-checking select items for confirmation status
	Number of Level 3 GO-95 Potential Non-Compliance (Any risk of low potential impact to safety or reliability) Items (dendified	N/A	N/A	N/A	N/A	139	Number Items	Determine if plan is on schedule	T. B. C.
	Number of Level 3 GO-95 Potential Non-Compliance (Any risk of low potential impact to safety or reliability) Items Outstanding	N/A	N/A	N/A	N/A	0	Number Items	Determine if plan is on schedule	
	Number of Circuit Miles Patrolled per GO-165	N/A	N/A	N/A	N/A	118.61	Number of Circuit Miles	Determine if plan is on schedule	1
	Number of Circuit Miles Inspected per GO-165 (detailed inspection)	N/A	N/A	N/A	N/A	12	Number of Circuit Miles	Determine if plan is on schedule	
	Number of Poles Intrusively Inspected	N/A	N/A	N/A	N/A	46	Number of Poles	Determine if plan is on schedule	
	Number of Poles Failing Instrussive Inspection	N/A N/A	N/A N/A	N/A N/A	N/A	9	Number of Poles Number of Circuit Miles	Determine if plan is on schedule	
	Number of Circuit Miles of LiDAR Survey Number of LiDAR trouble soots	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0	Number of Circuit Miles Number of spots	Determine if plan is on schedule Determine if plan is on schedule	
	Number of Circuit Miles of Exacter Survey	N/A	N/A	N/A	N/A	120	Number of Circuit Miles	Assess if communications plan has reduced customer concerns and risk events	1
	Number of Exacter trouble spots	N/A	N/A	N/A	N/A	10	Number of trouble spots	Assess outage impact on customers as a result of PSPS	
stomer Service	Number of Customer Service Calls about Tree Trimming	N/A	N/A	N/A	N/A	0	Number of Calls	Monitor changing climatic and weather patterns	Contracted 3rd party analysts or academic researchers could revi open as well as closed work orders, BVES GIS databases, staff
	SAIDI due to PSPS	N/A	N/A	N/A	N/A	0	System Average Interruption Duration Index	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	interviews, as well as spot-checking select items for confirmation status.
Weather Conditions	Number of NFDRS "Very Dry" and "Dry" Days	N/A	N/A	N/A	N/A	150	Number of Days	Monitor the need for PSFS events over time as an indicator of changing climatic and weather patterns	Contracted 3rd party analysts or academic researchers could revi open as well as closed work orders, BMES GIS databases, staff interviews, as well as spot-checking select items for confirmation status.
	Number of PSPS Events	N/A	N/A	N/A	N/A	0	Number of Events	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	*******
	Maximum recorded sustained winds Recorded by NWS	N/A	N/A	N/A	N/A	33	Miles per Hour	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns]
	Maximum recorded sustained winds Recorded by BVES Weather Stations	N/A	N/A	N/A	N/A	77.8	Miles per Hour	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	
	Maximum recorded wind gusts Recorded by NWS	N/A	N/A	N/A	N/A	53	Miles per Hour	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	
	Maximum recorded wind gusts Recorded by BVES Weather Stations	N/A	N/A	N/A	N/A	77.8	Miles per Hour	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	Contracted 3rd party analysts or academic researchers could re-
PSPS	Frequency of sustained high winds (number of days sustained wind > 50 mph) recorded by NWS	N/A	N/A	N/A	N/A	0	Number of Days	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	open as well as closed work orders, BVES GIS databases, staff interviews, as well as spot-checking select items for confirmation status.
	Frequency of sustained high winds (number of days sustained wind > 50 mph) recorded by BVES weather stations	N/A	N/A	N/A	N/A	2	Number of Days	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	status.
	Frequency of high wind gusts (number of days wind gusts > 50 mph) recorded by NWS	N/A	N/A	N/A	N/A	1	Number of Days	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	
	Frequency of high wind gusts (number of days wind gusts > 50 mph) recorded by BVES weather stations	N/A	N/A	N/A	N/A	2	Number of Days	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	

Note: Data from 2015-2018 is unavailable as these metrics were not recorded prior to implementation of the current (2019) WMP, which took effect June 2019.

0 0 0 0 1 553	Units Number of incidents Number of contact events	Underlying assumptions Assess overall effectiveness of the plan	Third-party validation Contracted 3rd party analysts or academic researchers could review open as well as closed work orders, SWES GIS databases, staff interviews, as well as spot-checking select items for confirmation of status.
0 0 1	Number of contact events		academic researchers could review open as well as closed work orders, BVES GIS databases, staff interviews, as well as spot-checking select items
0			
		Assess if plan has reduced risk events]
	Number of events Number of events	Assess if plan has reduced risk events Assess if plan has reduced risk events	•
	Number of poles	Determine if plan is on schedule	
384	Number of poles	Determine if plan is on schedule	
215	Number of poles	Determine if plan is on schedule	-
		·	Contracted 3rd party analysts or academic researchers could review open as well as closed work orders.
61	Number poles	Determine if plan is on schedule	BVES GIS databases, staff interviews, as well as spot-checking select items
43	Number of attachments	Determine if plan is on schedule	for confirmation of status.
9	Number of poles	Determine if plan is on schedule	
1	Length of wire (circuit miles)	Determine if plan is on schedule	
285	Number of fuses	Determine if plan is on schedule	
8	Number of fuses	Determine it pain a on schedule	1
2274	Number of fuses	Determine if plan is on schedule	
0.9393			•
0.0274	Percent of 34.5 kV circuit miles		Contracted 3rd party analysts or
0.0333	Percent of 34.5 kV circuit miles		academic researchers could review open as well as closed work orders.
0.7156	Percent of 4 kV circuit miles		BVES GIS databases, staff interviews as well as spot-checking select items
0.2844	Percent of 4 kV circuit miles		for confirmation of status.
0	Percent of 4 kV circuit miles	Assess overall system hardening	
973	Number of attachments	Assess overall system hardening	
34	Number of orders	Access II was a talian managament alan har coduced sith a coats	
0	Number of orders		•
5378 87	Number of trees Number of trees	Determine if plan is on schedule Determine if plan is on schedule Determine if plan is on schedule	1
306122449	Percent of OH system	Determine if plan is on schedule	j
0	Number of Items	Datarmina if olivi is on schadula	
0	Number of Items		
52	Number of Items	Determine if plan is on schedule	
0	Number of Items	Determine if plan is on schedule	Contracted 3rd party analysts or academic researchers could review open as well as closed work orders,
		Determine if plan is on schedule	BVES GIS databases, staff interviews, as well as spot-checking select items for confirmation of status.
139	Number Items	Determine if plan is on schedule	-
0	Number Items	Determine if plan is on schedule	_
		Determine if plan is on schedule	1
12	Number of Circuit Miles	Determine if plan is on schedule	
46		Determine if plan is on schedule	=
		Determine if plan is on schedule	-
0	Number of spots	Determine if plan is on schedule Determine if plan is on schedule	•
120	Number of Circuit Miles	Assess if communications plan has reduced customer concerns and risk events	
10	Number of trouble spots	Assess outage impact on customers as a result of PSPS	
0	Number of Calls	Monitor changing climatic and weather patterns	Contracted 3rd party analysts or academic researchers could review open as well as closed work orders, BVES GIS databases, staff interviews,
0	System Average Interruption Duration Index	Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	as well as spot-checking select items for confirmation of status.
150	Number of Days	Monitor the need for PSPS events over time as an indicator of changing climatic and weather	Contracted 3rd party analysts or academic researchers could review open as well as closed work orders, BVES GIS databases, staff interviews, as well as spot-checking select items for confirmation of status
0	Number of Events	patterns Monitor the need for PSPS events over time as an indicator of changing climatic and weather	Tor Commination of Status.
33	Miles per Hour	Monitor the need for PSPS events over time as an indicator of changing climatic and weather	1
77.8	Miles per Hour	Monitor the need for PSPS events over time as an indicator of changing climatic and weather	1
53	Miles per Hour	patterns Monitor the need for PSPS events over time as an indicator of changing climatic and weather	†
77.8	Miles per Hour	Monitor the need for PSPS events over time as an indicator of changing climatic and weather	Contracted 3rd party analysts or
0	Number of Days	patterns Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	academic researchers could review open as well as closed work orders, BVES GIS databases, staff interviews as well as spot-checking select items
2	Number of Days	Monitor the need for PSPS events over time as an indicator of changing climatic and weather	for confirmation of status.
	•	patterns	İ
1	Number of Days	patterns Monitor the need for PSPS events over time as an indicator of changing climatic and weather patterns	-
34	43 9 1 1 285 8 8 3374 009993 000774 00333 07.156 0 0.2844 0 0 0 5528 8 7 06122449 0 0 1139 0 118.61 12 46 9 0 0 0 1150 0 0 150 0 150 0 177.8 53	Number of stackments	Sunther of pales Determine if plan is no schedule

Note: The "2019 Performance" column only captures data from June 2019 (2019 WMP implementation start) to January 2020. Some "Program Targets" are estimates for May 2020 (2019 WMP end) based on June 2019 January 2020 performance.

Table 5: Accidental deaths due to utility wildfire mitigation initiatives, last 5 years

Activity								Victim								
Activity		Fu	III-time employ	ee		Contractor				Member of public				Total		
Year	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	
Inspection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vegetation management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utility fuel management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grid hardening	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 6: OSHA-reportable injuries due to utility wildfire mitigation initiatives, last 5 years

Activity		Victim														
Activity		F	ull-time employ	/ee			Contractor				Member of public				Total	
Year	2015	2015 2016 2017 2018 2019				2015	2016	2017	2018	2019	2015	2016	2017	2018	2019	
Inspection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vegetation management	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Utility fuel management	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grid hardening	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	

Note: On July 19, 2018, a line worker and the owner of Teele Tree Services made contact with a high voltage power line and sustained non-fatal injuries. The injury did not require reporting under CalOSHA guidelines but BVES chose to report the incident.

Table 7: Methodology for potential impact of ignitions

List of all data inputs used in impact simulation	Sources of data inputs	Data selection and treatment methodologies	Assumptions, including SME input	Equation(s), functions, or other algorithms used to obtain output	Output type(s), e.g., wind speed model	Comments
N/A	N/A	N/A	N/A	N/A		BVES does not had a proprietary methodoogy used to calculate or model potential impact of ignitions. See narrative explanation below.

Note: Bear Valley Electric Service does not have a proprietary model or methodology for evaluating the potential impact of ignitions. The utility's Subject Matter Expert evaluates the frequency of potential ignition events versus a set of impact categories (reliability, compliance, quality of service, safety and environmental) to develop total risk impact and scores.

Table 8: Map file requirements for recent and modelled conditions of utility service territory, last 5 years

Layer name	Measurements	2015	2016	2017	2018	2019	Average	Units	Attachment location	Comments
	Average annual number of Red Flag Warning days per square mile across service territory	0.0912	0.4427	0.4909	0.3307	0.1979	0.3107	Area, days, square mile resolution		BVES's service territory is 32 square miles
Recent weather patterns	Average 95 th percentile wind speed and prevailing direction (actual)	N/A	N/A	N/A	N/A	N/A	N/A	Area, miles per hour, at a square mile resolution or better, noting where measurements are actual	N/A	BVES is unable to provide this data for
	Average 99 th percentile wind speed and prevailing direction (actual)	N/A	N/A	N/A	N/A	N/A	N/A	or interpolated		each year at this time.
Recent drivers of ignition probability	Date of recent ignitions categorized by ignition probability driver	N/A	N/A	N/A	N/A	N/A	N/A	Point, GPS coordinate, days, square mile resolution	N/A	BVES has not had any recent ignitions
Recent use of PSPS	Duration of PSPS events and area of the grid affected in customer hours per year	N/A	N/A	N/A	N/A	N/A	N/A	Area, customer hours, square mile resolution	N/A	BVES has not had any recent use of PSPS

Note:
BVES is unable to provide the above requested data in GIS map file format at

9. Map file requirements for baseline condition of utility service territory projected for 2020 Name BVIS's unable to provide most of the data request or in GS formar at this time. The GS filed provided with this WMP submission include information on content of editorybon forcet for elimity senses use a destrobution fines (the light years use a violativa or interest as my transmission lines according to the Commission's definition thereoft, substations, generating facilities, such class.

Where such data cannot be provided in dis format at the Line items in red text under "Location of Weather Station	s time, the utility has provided the data it can in the tables b ns" represent planned future additions.	indow.		
Laver Name	Measurements/Variables	Value	Unit(s)	Appendix Location
	Non-HFTD vs HFTD (Zone 1, Tier 2, Tier 3) regions of utility service territory	N/A	Area, square mile resolution per type	
Current baseline state of service territory and autility equipment	Urban vs. rural vs. highly rural regions of utility service territory	N/A	Area, square mile resolution per type	N/A
	WUI regions of utility service territory	N/A	Area, square mile resolution per type	

Layer Name	Measurements/Variables	Critical Facility	Address	GPS Coordinate	Unit(s)	Appendix Location
		City of Big Bear Lake (CBBL)	39707 Big Bear Blvd. Big Bear Lake, CA	34.238138, -116.935334		
		Big Bear Fire Department	41090 Big Bear Blvd. Big Bear Lake CA	34.244454, -116.905308		
		Mountaintop Ranger District, U.S. Forest Service	41374 North Shore Drive, Hissay 38 Fawnskin, CA 92333	34.263421, -116.900904		
		San Bernardino County Sherriff's Department Big Bear Lake Patrol Station	477 Summit Blvd. Big Bear Lake, CA 92315	34.243900, -116.887824		
	Number and location of critical facilities	Big Bear Area Regional Wastewater Agency (BBARWA)	121 Palomino Dr. Sig Bear City, CA 92314	34.267869, -116.814973		
		Big Bear City Community Services District (CSD)	139 E. Big Bear Blvd. Ca 92314	34.261530, -116.844248		
Current baseline state of service territory and autility		Big Bear Lake Water Department (DWP)	41972 Garstin Dr. Big Bear Lake, CA 92315	34.246650, -116.886294	Point, GPS Coordinate	N/A
equipment		Big Bear Municipal Water District (MWD)	40524 Lakeview CT, Big Bear Lake, CA 92315	34.242787, -116.917948	Polit, Gra Condition	100
		Southwest Gas Corporation	140 Business Center Dr. Big Bear Lake, CA 92315	34.249530, -116.888579		
		Sear Valley Community Hospital	41870 Garstin Dr. Big Bear Lake, Ca 92315	34.246529, -116.881211		
		Bear Valley Unified School District	42271 Moonridge Rd. CA 92315	34.242345, -116.881211		
		Big Bear Chamber of Commerce	630 Bartlett Rd. Big Bear Lake, CA 92315	34.241133, -116.912336		
Į.		Big Bear Airport District	501 W. Valley Blvd. Big Bear City, CA 92314	34.261844, -116.853605		
		Sig Sear Mountain Resort/ Summit	880 Summit Blvd. Big Bear Lake, Ca 92315	34.236417, -116.889272	1	

Layer Name	Measurements/Variables	Value	Unit(s)	Appendix Location		
	Number and location of customers	N/A	Area, number of people, square mile resolution			
Current baseline state of service territory and autility equipment	Numer and Location of customers belonging to acces and functional needs populations	N/A	Area, number of people, square mile resolution	6.4		
	Overhead transmission lines	N/A	Line, quarter mile resolution			
	Overhead distribution lines	N/A	Line, quarter mile resolution			

		Bear Mountain Sub	Lassen Dr., 1500 Pt W/O Primrose dr. big Bear City, 92314	34.224328, -116.857868	1		
		Division Sub	150' W/O Division Dr. Big Bear Lake, 92314	34.261855, -116.866588			
		Farenskin Sub	S/E Corner of Mast Dr. Bie Bear Lake. 92314	34.261406116.882163			
		Lake Sub	Garstin Dr. N/O Fox Farm Rd, Big Bear Lake, 92315	34.253290, -116.891879	1 1		
Current baseline state of service territory and autility		Maltby Sub	5/E Corner of Maltby Blvd. & Shore Dr. Big Bear City, 92314	34.266335, -116.830982			
roulpment	Location of Substations	Marole Sub	N/O Baldwin Ln & 500' W/O Maple Ln. Bir Bear City. 92314		Point, GPS Coordinate	6.4	
quipment		Meadow Sub	N/O 42020 Garstin Dr. Big Bear Lake, 92315	34.247049, -116.885375	1 1		
		Moonridge Sub	S/E Conner of Clubview Dr. & Clover Dr. Big Bear Lake, 92315	34.226772, -116.863810			
		Palomino Sub	N/O Shay Rd & E/O Palomino Dr. Big Bear City, 92314	34.268660, -116.814846			
		Pine Knot Sub	S/E Corner of Laboritan Dr. & Georgia St. Big Bear Lake, 92315	34.245323, -116.900342	1 1		
		Summit Sub			1		
		Willage Sub	150' W/O Knickerbocker Rd Big Bear Lake, 92315	34.240145, -116.910389			
Laver Name	Measurement/syariables	Weather Station Name	X	Y	Pole #	Unit(s)	Appendix Location
		Soulder	6882767.31835688	1910907.25969201	125248V		
		Radford	6892602.18168080	1897637.83429690	121888V		
		Clubview	6903791.35668582	1911748.75614971	131178V		
		Garatin	6897851.88115513	1913880.76244089	130508V		
		Frain	6926748.82992281	1909355.71965373	126718V		
		Sunrise	6917065.08124572	1917065.08124572	97546V		
		North Share	6871890.65026930	1913238.01733531	6984EV		
		Lagratia	6883474.20244181	1914092.67622142	110548V		
		Goldmine	6911505.43455663	1907868.05465005	73190V		
Current baseline state of service territory and autility	Incation of Weather Stations	Saldwin	6920144.53342013	1931400.02595873	101708V	Point, GPS Coordinate	N/A
quipment		Dinner	6927051.82242705	1920353.18781623	119678V		
		Farenskin	6883614.95687313	1920094.83006522	125358V		
		Six Sear Dam	6870626.31191872	1912112.98119956	1210284CTC		
		Superiorf	6913024.86393248	1912860.05418047	50268V		
		Lake Williams	6932440.04655872	1909063.86361015	9607BV		
		2N20	6891981.36336863	1902964.04116414	4254BV		
		Erwin Lake	6924113.84897231	1912944.49659689	70258V		

Layer Name	Measurement/svariables	Value	Unit(s)	Appendix Location
Current baseline state of service territory and autility equipment	All utility assets by asset type, model, age, specifications, and condition	N/A	Point, GPS Coordinate	6.4
		Value	(leit(s)	
Laver Name	Measurement/svariables	Value	Unit(s)	Appendix Location
	Non-HFTD vs HFTD (Zone 1, Tier 2, Tier 3) regions of utility service territory	N/A	Line, quarter mile resolution	
	Urban vs. rural vs. highly rural regions of utility service	N/A	Line, quarter mile resolution	
Location of planned utility equipment additions or removal	WUI regions of utility service territory	N/A	Line, quarter mile resolution	N/A
	Circuit miles of overhead transmission lines	N/A	Line, quarter mile resolution	
	Circuit miles of overhead distribution lines	N/A	Line, quarter mile resolution	
	Location of substations	N/A	Point, GPS coordinate	
Layer Name	Measurement/syariables	Value	Unit(s)	Appendix Location
Planned 2020 WMP initiative activity per year	Location of 2020 WMP initiative activity for each activity as planned to be completed by the end of each year of the plan term	N/A	Line, quarter mile resolution	N/A

Table 10: Weather patterns, last 5 years

Weather measurement	2015	2016	2017	2018	2019	5-year historical average	Unit(s)
Red Flag Warning days	614.93	2,986.55	3,311.40	2,231.00	1,335.06	2,095.79	RFW circuit mile days per year
Days rated at the top 30% of proprietary fire potential index or similar fire risk index measure	107	151	118	129	87	118.40	Circuit mile days where proprietary measure rated above top 30% threshold per year
95 th percentile wind conditions	5,691.87	8,221.59	8,643.21	6,956.73	14,967.51	8,896.18	Circuit mile days with wind gusts over 95th percentile historical (meaning the prior 10 years, 2005-2014) conditions per year
99 th percentile wind conditions	1,897.29	2,318.91	2,318.91	1,686.48	6,535.11	2,951.34	Circuit mile days with wind gusts over 99th percentile historical (meaning the prior 10 years, 2005-2014) conditions per year
Other	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note:

BVES uses a contracted meteorologist that integrates data from the NFDRS, National Weather
Service, and local real-time data from BVES' distributed weather stations (to account for local
micro-climates) to ultimately assess relative local fire danger and risk. Reports are normally given
weekly, and more often – up to several times a day – during heightened threat
conditions. Operations personnel and leadership receive automated real-time alerts from BVES'
weather stations when local winds exceed thresholds.

Navigant Consulting, Inc. (Navigant) assessed the NFDRS and estimated fire ratings of Brown ("Very Dry") or more severe as falling within the top 30% of the NFDRS.

When calculating circuit-mile days, Navigant multiplied the corresponding metric (RFW days, 95th/99th percentile wind conditions days) by the total number of overhead circuit miles in BVES' service territory, assuming that underground circuit miles are unaffected by wind conditions. Including underground circuit miles in this calculation would deflate the actual assessment of risk posed by wind and other wildfire-risk conditions. When a Red Flag Warning is issued for the San Bernardino Mountains, - including Big Bear valley, which encompasses the entirey of BVES' service territory - the Warning applies to 100% of BVES' service territory.

Table 11: Key recent drivers of ignition probability, last 5 years

					Number of inc	idents per yea	r			Average per	entage probab	oility of ignition	per incident			Numbe	r of ignitions p	er year from th	nis driver	
Incident type by ignition probability driver tracked (y/n)?			2015	2016	2017	2018	2019	Average	2015	2016	2017	2018	2019	Average	2015	2016	2017	2018	2019	Average
	All types of object contact	Υ	6	35	12	8	4	13	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
Contact from object	Animal contact	Y	0	0	1	1	1	0.6	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
	Balloon contact	Y	0	1	0	0	0	0.2	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
	Veg. contact	Y	6	34	11	7	3	12.2	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
	Vehicle contact	Y	0	0	0	0	0	0	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
	All types	Y	40	40	42	23	16	32.2	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
	Capacitor bank failure	Υ	0	0	0	0	0	0	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
	Conductor failure—all	Υ	0	3	0	0	3	1.2	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
All types of equipment / facility	Conductor failure—wires down	Υ	0	3	0	0	3	1.2	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
failure	Fuse failure—all	Y	18	15	20	12	4	13.8	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
iaitile	Fuse failure—conventio nal blown fuse	Υ	18	15	20	10	4	13.4	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
	Lightning arrestor failure	Υ	0	0	0	0	0	0	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
	Switch failure	Y	0	0	0	0	0	0	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
	Transformer failure	Υ	4	4	2	1	2	2.6	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
Wire-to-wire contact / contaminal	tion	Υ	0	0	1	1	2	0.8	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0
Other		v	0	1	0	0	0	0.2	0%	0%	0%	0%	0%	0%	0	0	0	0	0	0

Note: In 2018, an umbrella was caught in one of BVES's overhead distribution lines.

Table 12: Recent use of PSPS, last 5 years

PSPS characteristic	2015	2016	2017	2018	2019	Unit(s)
Frequency of PSPS events (total)	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
Frequency of PSPS events (normalized)	0	0	0	0	0	Number of instances where utility operating protocol requires de-energization of a circuit or portion thereof in order to reduce ignition probability, per RFW circuit mile day per year
Scope of PSPS events (total)	N/A	N/A	N/A	N/A	N/A	Circuit-events, measured in number of events multiplied by number of circuits de- energized per year
Scope of PSPS events (normalized)	N/A	N/A	N/A	N/A	N/A	Circuit-events, measured in number of events multiplied by number of circuits targeted for de-energization per RFW circuit mile day per year
Duration of PSPS events (total)	N/A	N/A	N/A	N/A	N/A	Customer hours per year
Duration of PSPS events (normalized)	N/A	N/A	N/A	N/A	N/A	Customer hours per RFW circuit mile day per year
Other	N/A	N/A	N/A	N/A	N/A	N/A

Note: BVES has not had any recent use of PSPS over the 2015-2019 period.

Table 13: Current baseline state of service territory and utility equipment

Land use	Characteristic tracked	In non-HFTD	In HFTD Zone 1	In HFTD Tier 2	In HFTD Tier 3
	Circuit miles	N/A	N/A	N/A	N/A
	Circuit miles in WUI	N/A	N/A	N/A	N/A
	Number of critical facilities	N/A	N/A	N/A	N/A
	Number of critical facilities in WUI	N/A	N/A	N/A	N/A
	Number of customers	N/A	N/A	N/A	N/A
	Number of customers in WUI	N/A	N/A	N/A	N/A
In urban areas	Number of customers belonging to access and functional needs populations	N/A	N/A	N/A	N/A
iii ui baii areas	Number of customers belonging to access and functional needs populations in WUI	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI	N/A	N/A	N/A	N/A
	Circuit miles of overhead distribution lines	N/A	N/A	N/A	N/A
	Circuit miles of overhead distribution lines in WUI	N/A	N/A	N/A	N/A
	Number of substations	N/A	N/A	N/A	N/A
	Number of substations in WUI	N/A	N/A	N/A	N/A
	Circuit miles	N/A	N/A	263.62	1.27
	Circuit miles in WUI	N/A	N/A	0.00	0.00
	Number of critical facilities	N/A	N/A	14	0.00
	Number of critical facilities in WUI	N/A	N/A	0.00	0.00
	Number of customers	N/A	N/A	24,424	0.00
	Number of customers in WUI	N/A	N/A	N/A	0.00
In rural areas	Number of customers belonging to access and functional needs populations	N/A	N/A	0.00	0.00
iii iui di dieds	Number of customers belonging to access and functional needs populations in WUI		N/A	N/A	0.00
	Circuit miles of overhead transmission lines	N/A	N/A N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI	N/A	N/A	0.00	0.00
	Circuit miles of overhead distribution lines	N/A	N/A N/A N/A	209.54	1.27
	Circuit miles of overhead distribution lines in WUI	N/A	N/A	0.00	0.00
	Number of substations	N/A	N/A	13	0.00
	Number of substations in WUI	N/A	N/A	0.00	0.00
	Circuit miles	N/A	N/A	N/A	N/A
	Circuit miles in WUI	N/A	N/A	N/A	N/A
	Number of critical facilities	N/A	N/A	N/A	N/A
	Number of critical facilities in WUI	N/A	N/A	N/A	N/A
	Number of customers	N/A	N/A	N/A	N/A
	Number of customers in WUI	N/A	N/A	N/A	N/A
In highly rural areas	Number of customers belonging to access and functional needs populations	N/A	N/A	N/A	N/A
giiiy iuiai aleas	Number of customers belonging to access and functional needs populations in WUI	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI	N/A		N/A	N/A
	Circuit miles of overhead distribution lines	N/A		N/A	N/A
	Circuit miles of overhead distribution lines in WUI	N/A	N/A	N/A	N/A
	Number of substations	N/A	N/A	N/A	N/A
	Number of substations in WUI	N/A	N/A	N/A	N/A

Note: BVES does not have any urban or highly rural areas within its service territory. The utility's service territory is entirely rural and either HFTD Tier 2 or Tier 3.

The utility does not have any transmission lines as all of its lines are below 65 kV.

BVES has not tracked which portions of its distribution system and other utilty-owned infrastructure or assets are located in

Table 14: Summary data on weather station count

Weather station count type	Current count	Unit(s)
Number of weather stations (total)	11	Total number located in service territory and operated by utility
Number of weather stations (normalized)	0.0522	Total number located in service territory and operated by utility, divided by total number of circuit miles in utility service territory
Number of weather stations in non-HFTD (total)	0	Total number located in non-HFTD service territory and operated by utility
Number of weather stations in non-HFTD (normalized)	0	Total number located in non-HFTD service territory and operated by utility, divided by total number of circuit miles in non-HFTD service territory
Number of weather stations in HFTD Zone 1 (total)	0	Total number located in HFTD Zone 1 service territory and operated by utility
Number of weather stations in HFTD Zone 1 (normalized)	0	Total number located in HFTD Zone 1 service territory and operated by utility, divided by total number of circuit miles in HFTD Zone 1 service territory
Number of weather stations in HFTD Tier 2 (total)	10	Total number located in HFTD Tier 2 service territory and operated by utility
Number of weather stations in HFTD Tier 2 (normalized)	0.0477	Total number located in HFTD Tier 2 service territory and operated by utility, divided by total number of circuit miles in HFTD Tier 2 service territory
Number of weather stations in HFTD Tier 3 (total)	1	Total number located in HFTD Tier 3 service territory and operated by utility
Number of weather stations in HFTD Tier 3 (normalized)	0.7874	Total number located in HFTD Tier 3 service territory and operated by utility, divided by total number of circuit miles in HFTD Tier 3 service territory

Note:

The utility's service territory is entirely rural and either HFTD Tier 2 or Tier 3.

Circuit miles were calculated as the total overhead circuit miles, assuming that underground circuit miles are unaffected by wind conditions. Including underground circuit miles in this calculation would deflate the actual assessment of risk posed by wind and other wildfire-risk conditions.

Table 15: Summary data on fault indicator count

Fault indicator count type	Current count	Unit(s)
Number of fault indicators (total)	87	Total number located in service territory and operated by utility
Number of fault indicators (normalized)	0.4127	Total number located in service territory and operated by utility, divided by total number of circuit miles in utility service territory
Number of fault indicators in non-HFTD (total)	0	Total number located in non-HFTD service territory and operated by utility
Number of fault indicators in non-HFTD (normalized)	0	Total number located in non-HFTD service territory and operated by utility, divided by total number of circuit miles in non-HFTD service territory
Number of fault indicators in HFTD Zone 1 (total)	0	Total number located in HFTD Zone 1 service territory and operated by utility
Number of fault indicators in HFTD Zone 1 (normalized)	0	Total number located in HFTD Zone 1 service territory and operated by utility, divided by total number of circuit miles in HFTD Zone 1 service territory
Number of fault indicators in HFTD Tier 2 (total)	87	Total number located in HFTD Tier 2 service territory and operated by utility
Number of fault indicators in HFTD Tier 2 (normalized)	0.4152	Total number located in HFTD Tier 2 service territory and operated by utility, divided by total number of circuit miles in HFTD Tier 2 service territory
Number of fault indicators in HFTD Tier 3 (total)	0	Total number located in HFTD Tier 3 service territory and operated by utility
Number of fault indicators in HFTD Tier 3 (normalized)	0	Total number located in HFTD Tier 3 service territory and operated by utility, divided by total number of circuit miles in HFTD Tier 3 service territory

Note: The utility's service territory is entirely rural and either HFTD Tier 2 or Tier 3.

Circuit miles were calculated as the total overhead circuit miles, assuming that underground circuit miles are unaffected by wind conditions. Including underground circuit miles in this calculation would deflate the actual assessment of risk posed by wind and other wildfire-risk conditions.

Table 16: Location of planned utility equipment additions or removal by end of 3-year plan term

			Changes b	y end-2022	
Land use	Characteristic tracked	In man HETD	In HFTD Zone	In HFTD Tier	In HFTD Tier
		In non-HFTD	1	2	3
	Circuit miles of overhead transmission lines	N/A	N/A	N/A	N/A
	Circuit miles of overhead distribution lines	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI	N/A	N/A	N/A	N/A
In urban areas	Circuit miles of overhead distribution lines in WUI	N/A	N/A	N/A	N/A
iii ui baii ai eas	Number of substations	N/A	N/A	N/A	N/A
	Number of substations in WUI	N/A	N/A	N/A	N/A
	Number of weather stations	N/A	N/A	N/A	N/A
	Number of weather stations in WUI	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines	N/A	N/A	N/A	N/A
	Circuit miles of overhead distribution lines	N/A	N/A	0	0
	Circuit miles of overhead transmission lines in WUI	N/A	N/A 0 N/A N/A N/A N/A	N/A	N/A
In rural areas	Circuit miles of overhead distribution lines in WUI	N/A	N/A	N/A	N/A
iii i ui ai ai eas	Number of substations	N/A	1 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	13	0
	Number of substations in WUI	N/A	N/A	N/A	N/A
	Number of weather stations	N/A	N/A	9	0
	Number of weather stations in WUI	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines	N/A	N/A	N/A	N/A
	Circuit miles of overhead distribution lines	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI	N/A	N/A	N/A	N/A
In highly rural areas	Circuit miles of overhead distribution lines in WUI	N/A	N/A	N/A	N/A
in nigniy ruidi dieds	Number of substations	N/A	N/A	N/A	N/A
	Number of substations in WUI	.,,	N/A	N/A	N/A
	Number of weather stations	N/A	N/A	N/A	N/A
	Number of weather stations in WUI	N/A	N/A	N/A	N/A

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

Note: The utility does not have any transmission lines as all of its lines are below 65kV.

The utility does not plan to add or remove any overhead distribution lines.

BVES does not track which portions of its distribution system and other utilty-owned infrastructure or assets are located in WUI-designated areas.

The utility does not have any urban or highly rural aras. BVES' entire service territory is rural.

Table 17: Location of planned utility infrastructure upgrades

Land use	Characteristic tracked		In non-HFTD			In HFTD Zone	1		In HFTD Tier 2			In HFTD Tier 3	3
Lanu use	Characteristic tracked	2020	2021	2022	2020	2021	2022	2020	2021	2022	2020	2021	2022
Total circuit miles planned	otal circuit miles planned for hardening each year, all types and locations		N/A	N/A	N/A	N/A	N/A	6	8	8	2	0	0
Total number of substation	ns planned for hardening each year, all locations	N/A	N/A	N/A	N/A	N/A	N/A	1	1	1	0	0	0
	Circuit miles planned for grid hardening of overhead transmission lines	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead distribution lines to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
In urban areas	Circuit miles of overhead distribution lines in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Number of substations to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Number of substations in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead distribution lines to harden	N/A	N/A	N/A	N/A	N/A	N/A	6	8	8	2	0	0
In rural areas	Circuit miles of overhead distribution lines in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Number of substations to harden	N/A	N/A	N/A	N/A	N/A	N/A	1	1	1	0	0	0
	Number of substations in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead distribution lines to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
In highly rural areas	Circuit miles of overhead distribution lines in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Circuit miles of overhead transmission lines in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Number of substations to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Number of substations in WUI to harden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

Note: The utility does not have any transmission lines as all of its lines are below 65kV.

BVES does not track which portions of its distribution system and other utilty-owned infrastructure or assets are located in WUI-designated areas.

Table 18: Key drivers of ignition probability

louition a	robability drivers	Number of incidents per year (according to 5-year historical average)	Average likelihood of ignition per incident	Ignitions from this driver (according to 5-year historical average)							
ignition p		Number of incidents per year (according to 5-year historical average)	Average intellifood of ignition per incident	Total	In non-HFTD	In HFTD Zone 1	In HFTD Tier 2	In HFTD Tier 3			
	All types of object contact	13	0%	0	N/A	N/A	0	0			
	Animal contact	0.6	0%	0	N/A	N/A	0	0			
Contact from object	Balloon contact	0.2	0%	0	N/A	N/A	0	0			
	Vegetation contact	12.2	0%	0	N/A	N/A	0	0			
	Vehicle contact	0	0%	0	N/A	N/A	0	0			
	All types	32.2	0%	0	N/A	N/A	0	0			
	Capacitor bank failure	0	0%	0	N/A	N/A	0	0			
	Conductor failure—all	1.2	0%	0	N/A	N/A	0	0			
	Conductor failure—wires down	1.2	0%	0	N/A	N/A	0	0			
All types of equipment / facility failure	Fuse failure—all	13.8	0%	0	N/A	N/A	0	0			
	Fuse failure—conventional blown fuse	13.4	0%	0	N/A	N/A	0	0			
	Lightning arrestor failure	0	0%	0	N/A	N/A	0	0			
	Switch failure	0	0%	0	N/A	N/A	0	0			
	Transformer failure	2.6	0%	0	N/A	N/A	0	0			
Wire-to-wire contact / contamination		0.8	0%	0	N/A	N/A	0	0			
Other		0.2	0%	0	N/A	N/A	0	0			

Note: The utility's service territory is in either HFTD Tier 2 or Tier 3

4.1 The Objectives of the Plan

The objectives of the plan shall, at a minimum, be consistent with the requirements of California Public Utilities Code §8386(a). Describe utility WMP objectives, categorized by each of the following timeframes:

Before the upcoming wildfire season, as defined by the California Department of Forestry and Fire Protection (CAL FIRE),

Before the next annual update,

Within the next 3 years, and

Within the next 10 years.

See BVES 2020 WMP, Sections 4.1 and 4.3 with initiatives detailed in Chapter 5 of the WMP

4.2 Understanding major trends impacting ignition probability and wildfire consequence

Describe how the utility assesses wildfire risk in terms of ignition probability and estimated wildfire consequence, including use of Multi-Attribute Risk Score (MARS) and Multi-Attribute Value Function (MAVF) as in the Safety Model and Assessment Proceeding (S-MAP) and Risk Assessment Mitigation Phase (RAMP). Include description of how the utility distinguishes between these risks and the risks to safety and reliability. List and describe each "known local condition" that the utility monitors per GO 95, Rule 31.1, including how the condition is monitored and evaluated. In addition:

A. Describe how the utility monitors and accounts for the contribution of weather to ignition probability and estimated wildfire consequence in its decision making, including describing any utility-generated fire Potential Index or other measure (including input variables, equations, the scale or rating system, an explanation of how uncertainties are accounted for, an explanation of how this index is used to inform operational decisions, and an explanation of how trends in index ratings impact medium-term decisions such as maintenance and longer-term decisions such as capital investments, etc.).

B. Describe how the utility monitors and accounts for the contribution of fuel conditions to ignition probability and estimated wildfire consequence in its decision making, including describing any proprietary fuel condition index (or other measures tracked), the outputs of said index or other measures, and the methodology used for projecting future fuel conditions. Include discussion of measurements and units for live fuel moisture content, dead fuel moisture content, density of each fuel type, and any other variables tracked. Describe the measures and thresholds the utility uses to determine extreme fuel conditions, including what fuel moisture measurements and threshold values the utility considers "extreme" and its strategy for how fuel conditions inform operational decision-making.

See BVES 2020 WMP, Sections 3.1, 3.2, 3.3, and 5.3

4.2.1 Service territory fire-threat evaluation and ignition risk trends

Discuss fire-threat evaluation of the service territory to determine whether an expanded High Fire Threat District (HFTD) is warranted (i.e., beyond existing Tier 2 and Tier 3 areas). This section shall include a discussion of any fire threat assessment of its service territory performed by the electrical corporation. In the event that the electrical corporation's assessment determines the fire threat rating for any part of its service territory is insufficient (i.e., the actual fire threat is greater than what is indicated in the CPUC Fire Threat Map and High Fire Threat District designations), the corporation shall identify those areas for consideration of HFTD modification, based on the new information or environmental changes. To the extent this identification relies upon a meteorological or climatological study, a thorough explanation and copy of the study shall be included.

BVES has not performed any study in 2019 to determine whether expansion of the HFTD tiers are necessary, though is aware of the need to reevaluate these designations from time to time and will consider this effort in subsequent WMP filings. BVES operates with the inherent risk factor of the service area's mountainous, alpine terrain, which makes up Tier 2 and Tier 3 regions of the HFTD. Field operational practices that include fire-threat conditions/stipulations are considered as part of general business practice. BVES did not meet trigger thresholds to initiate a PSPS event during the 2019 fire season, leading to the understanding that the Commission has suitably mapped the fire threat profile for the service territory at this time.

An immediate activity the utility will pursue before the next wildfire season will be addressing the Wildland Urban Interface (WUI) designations, as the utility has not previously tracked these zones in wildfire mitigation planning. BVES understands that the risk area for the WUI maps atop the Tier 2 and 3 designations from the HFTD. The utility does not have any urban or highly rural areas; the entire service territory is rural.

Table 19: Macro trends impacting ignition probability and/or wildfire consequence

Rank	Macro trends impacting utility ignited ignition probability and estimated wildfire consequence by year 10	Comments
1	Change in ignition probability and estimated wildfire consequence due to climate change	The utility expects climate change to produce significant increase in ignition probability over the 10-year period. Based on 2017 Climate Change and Health Profile Report San Bernardino County (UC Davis), California Fourth Climate Assessment.
3	Change in ignition probability and estimated wildfire consequence due to relevant invasive species, such as bark beetles	The Big Bear Lake region has previously been affected by bark beetles, notably in the Summer of 2018 as a result of the thenogoing drought in California. While the utility has not experienced any ignition events, increased dead tree density is likely as climate change creates more favorable Summer conditions for bark beetle populations.
2	Change in ignition probability and estimated wildfire consequence due to other drivers of change in fuel density and moisture	The utility's service territory is in a heavily forested alpine environment. Any increase in fuel density and dryness creates a disproportionate increase in ignition probability and/or estimated wildfire consequences.
5	Population changes (including Access and Functional Needs population) that could be impacted by utility ignition	The utility's service territory is entirely in a mountain resort region. BVES does not expect significant population changes within its service territory and does not foresee measurable changes impacting ignition probability and/or wildfire consequence as a result thereof.
6	Population changes in HFTD that could be impacted by utility ignition	The utility's service territory is entirely in a mountain resort region. BVES does not expect significant population changes within its service territory and does not foresee measurable changes impacting ignition probability and/or wildfire consequence as a result thereof.
4	Population changes in WUI that could be impacted by utility ignition	The utility's service territory is entirely in a mountain resort region. BVES does not expect significant population changes within its service territory and does not foresee measurable changes impacting ignition probability and/or wildfire consequence as a result thereof.
7	Utility infrastructure location in HFTD vs non-HFTD	The utility's service territory is entirely in HFTD 2 or HFTD3. As a result, BVES does not foresee any differentiated impacts in ignition probability and/or wildfire consequence due to the location of utilit infrastructure in HFTD vs non-HFTD
8	Utility infrastructure location in urban vs rural vs highly rural areas	The utility's service territory is entirely rural. As a result, BVES does not foresee any differentiated impacts in ignition probability and/or wildfire consequence due to the location of utility infrastrucutre in urban vs rural vs highly rural areas

List and describe any additional macro trends impacting ignition probability and estimated wildfire consequence within utility service territory, including trends within the control of the utility, trends within the utility's ability to influence, and externalities (i.e., trends beyond the utility's control, such as population changes within the utility's territory).

In addition to the comments laid out in Table 19, see BVES 2020 WMP Section 3.2 through subsection 3.2.1.

List and describe all relevant drivers of ignition probability and estimated wildfire consequences and the mitigations that are identified in the Risk Assessment Mitigation Phase (RAMP) and not included in the above, including how these are expected to evolve. Rank these drivers from highest to lowest risk and describe how they are expected to evolve.

The CPUC has not required BVES to conduct a Risk Assessment and Mitigation Phase (RAMP) in prior GRC filings, however through its risk-based decision-making framework, BVES has created a list of risks and a prioritized list of mitigation measures.

BVES 2020 WMP Section 3.2

4.3 Change in Ignition Probability Drivers

Based on the implementation of the above wildfire mitigation initiatives, explain how the utility sees its ignition probability drivers evolving over the 3 year term of the WMP. Focus on ignition probability and estimated wildfire consequence reduction by ignition probability driver, detailed risk driver, and include a description of how the utility expects to see incidents evolve over the same period, both in total number (of occurrence of a given incident type, whether resulting in a near miss or in an ignition) and in likelihood of causing an ignition by type. Outline methodology for determining ignition probability from events, including data used to determine likelihood of ignition probability, such as past ignition events, number of near misses, and description of events (including vegetation and equipment condition).

See BVES 2020 WMP, Sections 3.1, 3.2, & 3.3

4.4 Directional Vision for Necesity of PSPS

Describe any lessons learned from PSPS since the utility's last WMP submission and expectations for how the utility's PSPS program will evolve over the coming 1, 3, and 10 years. Be specific by including a description of the utility's protocols and thresholds for PSPS implementation. Include a quantitative description of how the circuits and numbers of customers that the utility expects will be impacted by any necessary PSPS events is expected to evolve over time. The description of protocols must be sufficiently detailed and clear to enable a skilled operator to follow the same protocols. When calculating anticipated PSPS, consider recent weather extremes, including peak weather conditions over the past 10 years as well as recent weather years and how the utility's current PSPS protocols would be applied to those years.

BVES did not initiate a PSPS event in 2019, therefore has no direct lessons learned to apply to 2020.

In addition to Table 20 comments, see the following in the BVES 2020 WMP: Subsection 3.2.1.1, Table 3-5, subsection 5.5.1 and Table 5-7

Table 20: Anticipated characteristics of PSPS use over next 10 years

Rank order 1-9	PSPS characteristic	Significantly increase; increase; no change; decrease; significantly decrease	Comments
N/A	Number of customers affected by PSPS events (total)	No change	BVES has not implemented any PSPS does not anticipate the need for PSPS over the next 10 years
N/A	Number of customers affected by PSPS events (normalized by fire weather, e.g., Red Flag Warning line mile days)	No change	BVES has not implemented any PSPS does not anticipate the need for PSPS over the next 10 years
N/A	Frequency of PSPS events in number of instances where utility operating protocol requires de-energization of a circuit or portion thereof to reduce ignition probability (total)	No change	BVES has not implemented any PSPS does not anticipate the need for PSPS over the next 10 years
N/A	Frequency of PSPS events in number of instances where utility operating protocol requires de-energization of a circuit or portion thereof to reduce ignition probability (normalized by fire weather, e.g., Red Flag Warning line mile days)	No change	BVES has not implemented any PSPS does not anticipate the need for PSPS over the next 10 years
N/A	Scope of PSPS events in circuit-events, measured in number of events multiplied by number of circuits targeted for de-energization (total)	No change	BVES has not implemented any PSPS does not anticipate the need for PSPS over the next 10 years
N/A	Scope of PSPS events in circuit-events, measured in number of events multiplied by number of circuits targeted for de-energization (normalized by fire weather, e.g., Red Flag Warning line mile days)	No change	BVES has not implemented any PSPS does not anticipate the need for PSPS over the next 10 years
N/A	Duration of PSPS events in customer hours (total)	No change	BVES has not implemented any PSPS does not anticipate the need for PSPS over the next 10 years
N/A	Duration of PSPS events in customer hours (normalized by fire weather, e.g., Red Flag Warning line mile days)	No change	BVES has not implemented any PSPS does not anticipate the need for PSPS over the next 10 years
N/A	Other	No change	BVES has not implemented any PSPS does not anticipate the need for PSPS over the next 10 years

5.1 Wildfire mitigation strategy

Describe organization-wide wildfire mitigation strategy and goals for each of the following time periods:

- Before the upcoming wildfire season, as defined by the California Department of Forestry and Fire Protection (CAL FIRE)
- Before the next annual update,
- 3. Within the next 3 years, and
- 4. Within the next 10 years.

The description of utility wildfire mitigation strategy shall:

- A. Discuss the utility's approach to determining how to manage wildfire risk (in terms of ignition probability and estimated wildfire consequence) as distinct from managing risks to safety and/or reliability. Describe how this determination is made both for (1) the types of activities needed and (2) the extent of those activities needed to mitigate these two different groups of risks. Describe to what degree the activities needed to manage wildfire risk may be incremental to those needed to address safety and/or reliability risks.
- B. Include a summary of what major investments and implementation of wildfire mitigation initiatives achieved over the past year, any lessons learned, any changed circumstances for the 2020 WMP term (i.e., 2020-2022), and any corresponding adjustment in priorities for the upcoming plan term. Organize summaries of initiatives by the wildfire mitigation categories listed in Section 5.3.
- C. List and describe all challenges associated with limited resources and how these challenges are expected to evolve over the next 3 years.
- D. Outline how the utility expects new technologies and innovations to impact the utility's strategy and implementation approach over the next 3 years, including the utility's program for integrating new technologies into the utility's grid.

See BVES 2020 WMP:

- A. Section 3.2, and 3.3.
- B. Table 2-2, Section 4.3, and Chapter 5 for corresponding initiatives.
- C. Section 2.1
- D. Subsection 5.1.6

5.2 Wildfire Mitigation Plan Implementation

Describe the processes and procedures the electrical corporation will use to do all the following:

- A. Monitor and audit the implementation of the plan. Include what is being audited, who conducts the audits, what type of data is being collected, and how the data undergoes quality assurance and quality control.
- B. Identify any deficiencies in the plan or the plan's implementation and correct those deficiencies.
- C. Monitor and audit the effectiveness of inspections, including inspections performed by contractors, carried out under the plan and other applicable statutes and commission rules
- D. For all data that is used to drive wildfire-related decisions, including grid operations, capital allocation, community engagement, and other areas, provide a thorough description of the utility's data architecture and flows. List and describe 1) all dashboards and reports directly or indirectly related to ignition probability and estimated wildfire consequences and reduction, and 2) all available GIS data and products. For each, include metadata and a data dictionary that defines all information about the data. For each, also describe how the utility collects data, including a list of all wildfire-related data elements, where it is stored, how it is accessed, and by whom. Explain processes for QA/QC, cleaning and analyzing, normalizing, and utilizing data to drive internal decisions. Include list of internal data standards and cross-reference for they datasets or map products to which the standards apply.

See BVES 2020 WMP Section 1.2, Chapter 2, and Sections 2.1, 2.2, & 2.4 $\,$

5.3.1 Risk assessment and mapping

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description for the utility's programs, the utility's rationale behind each of the elements of this program, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct audits or other quality checks on each program, how the utility plans to demonstrate over time whether

each component is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

- 1. A summarized risk map showing the overall ignition probability and estimated wildfire consequence along electric lines and equipment
- 2. Climate-driven risk map and modelling based on various relevant weather scenarios
- 3. Ignition probability mapping showing the probability of ignition along the electric lines and equipment
- 4. Initiative mapping and estimation of wildfire and PSPS risk-reduction impact
- 5. Match drop simulations showing the potential wildfire consequence of ignitions that occur along the electric lines and equipment
- 6. Weather-driven risk map and modelling based on various relevant weather scenarios
- 7. Other / not listed [only if an initiative cannot feasibly be classified within those listed above]

For each of the above initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- 1. Before the upcoming wildfire season
- 2. Before the next annual update,
- 3. Within the next 3 years, and
- 4. Within the next 10 years.

See BVES 2020 WMP Chapter 3 and Sections 4.1, 4.2, 4.3

usk assessment and mapp	_															
Initiative activity	Year	Total per-initiative spend		Subtotal B: Operating expenses	Line miles to be treated	Spend/ treated line mile	Ignition probability drivers targeted	Risk reduction	Risk-spend efficiency	Other risk drivers addressed	Existing/ new	Existing: What proceeding has reviewed program	If new: Memorandum account	In / exceeding compliance with regulations	Cite associated rule	Comments
	2019 plan															
1. A summarized risk map	2019 actual															
showing the overall	2020															
ignition probability and estimated wildfire	2021															
consequence along electric	2022															
lines and equipment	2020-2022 plan															
	total															
	2019 plan															
	2019 actual															
Climate-driven risk map and modelling based on	2020															
various relevant weather	2021															
scenarios	2022															
	2020-2022 plan															
	total															
	2019 plan															
3. Ignition probability	2019 actual															
mapping showing the	2020															
probability of ignition along the electric lines and	2021															
equipment	2022															1
	2020-2022 plan total															
	2019 plan															
	2019 actual															
4. Initiative mapping and	2020															
estimation of wildfire and	2021															
PSPS risk-reduction impact	2022															
	2020-2022 plan total															
	2019 plan															
	2019 pian 2019 actual															
5. Match drop simulations showing the potential	2019 actual 2020															
wildfire consequence of																
ignitions that occur along the electric lines and	2021															
equipment	2022															
	2020-2022 plan total															
	2019 plan															
	2019 actual															
Weather-driven risk map and modelling based on	2020															
various relevant weather	2021															
scenarios	2022															
	2020-2022 plan total															-
	2019 plan															
	2019 actual															
	2020			 		 										
7. Other / not listed	2020			1		1										
				 		 										
	2022															
	2020-2022 plan total															

5.3.2 Situational awareness and forecasting

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description of the utility's initiatives, the utility's rationale behind each of the elements of the initiatives, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct audits or other quality checks on each initiative, how the utility plans to demonstrate over time whether each component of the initiatives is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

- 1. Advanced weather monitoring and weather stations
- 2. Continuous monitoring sensors
- 3. Fault indicators for detecting faults on electric lines and equipment
- 4. Forecast of a fire risk index, fire potential index, or similar
- 5. Personnel monitoring areas of electric lines and equipment in elevated fire risk conditions
- 6. Weather forecasting and estimating impacts on electric lines and equipment
- 7. Other / not listed [only if an initiative cannot feasibly be classified within those listed above]

For each of the above initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- 1. Before the upcoming wildfire season,
- 2. Before the next annual update,
- 3. Within the next 3 years, and
- 4. Within the next 10 years.

See BVES 2020 WMP Chapter 3, Sections 4.1, 4.2, 4.3, and Section 5.4

Initiative activity	Year	Total per-initiative spend	Subtotal A: Capital expenditure	Subtotal B: Operating expenses	Line miles to be treated	Spend/ treated line mile	Ignition probability drivers targeted	Risk reduction	Risk-spend efficiency	Other risk drivers addressed	Existing/ new	Existing: What proceeding has reviewed program	If new: Memorandum account	In / exceeding compliance with regulations	Cite associated rule	Comments	
	2019 plan	\$ 244,000.00	\$ 244,000.00	s -				1,024,621.77	8.4							Installs 20 weather stations throughout the BVES service area.	
1. Advanced weather	2019 actual	\$ 134,200.00		s -			Dry conditions, high wind speeds, inclement weather that could increase ignition risk (e.g. lightning)			Wildfire-Significant Loss of Property			Memorandum			Allows BVES to prepare response ahead of time and take	
monitoring and weather stations	2020	S 109.800.00	S 109.800.00	s .	N/A	N/A					Existing		Account			precautionary and/or avidance action. Also, allows BVES to validate actual conditions in the field such as before and after PSPS	
stations	2022	\$ -	s -	\$ -	1											events.	
	2020-2022 plan total 2019 plan	\$ 109,800.00	\$ 109,800.00	s -													
	2019 oran 2019 actual				1						New		WMP				
Advanced weather monitoring and weather	2020				i								WMP Memorandum			Integrate all 20 weather stations with Scada, Est. \$27,000.	
stations (b)	2021												Account				
	2022 2020-2022 plan total																
	2019 plan						Contact from object.									+	
	2019 actual				1		all types of						WMP			Installs ALERT Wildfire HD Cameras throughout the service area	
 Continuous monitoring sensors 	2020	\$ 250,000.00 \$ 250,000.00	\$ 250,000.00 \$ 250,000.00	\$ -	N/A	N/A	equipment/facility failure,	994,609.51	3.98	Wildfire-Significant Loss of Property	New	N/A	Memorandum	1		allowing rapid detection and direction of first responders to any	
SAITSOTS	2021	\$ 250,000,00	\$ 250,000,00	\$.			wire-to-wire			Loss of Property			Account			fires.	
	2020-2022 plan total	\$ 500.000.00	\$ 500.000.00	s -			contact/contamination										
	2019 plan 2019 actual				, —	N/A	Contact from object, all types of equipment/facility failure, wire-to-wire	1,143,068.47	0.48	Wildfire-Significant Loss of Property			N/A			Down Wire Detection Relay Installment Program. Installs fast actin	
3. Fault indicators for	2019 actual 2020	٠.	٠.	٠.							New	N/A				smart switches and detection relays to detect and de-energize	
detecting faults on electric lines and equipment	2021	s .	s -	š .	N/A											down wires. Planned 2022-2024 (3-year execution period),	
mines and equipment	2022 2020, 2022 plan total	\$ 2.371.200.00	\$ 2.371.200.00	s -			contact/contamination									\$2,371,200.00 CapEx/year.	
	2020-2022 plan total 2019 plan	S 2.371.200.00	S 2.371.200.00	s .													
4. Forecast of a fire risk	2019 actual																
index, fire potential index,	2020																
or similar	2021																
	2020-2022 plan total																
	2019 olan																
 Personnel monitoring areas of electric lines and 	2019 actual 2020																
equipment in elevated fire	2021																
risk conditions	2022																
	2020-2022 plan total 2019 plan				+												
	2019 plan 2019 actual									Contact from object, all types of equipment/facility						Weather Consulting Services. Provides BVES staff service area	
Weather forecasting and estimating impacts on													WMP			specific forecasts to better understand possible fire threat weather as well as storm conditions that may affect service. Allows BVES to prepare response alread of time and take precautionary and/or avoidance action. Est. \$45,000.	
electric lines and	2021				ł					failure, wire-to-wire	New	N/A	Memorandum Account				
equipment	2022				i					contact/contaminat			Account				
	2020-2022 plan total				i					ion							
	2019 plan							1,143,068.47	3.34	Wildfire-Significant Loss of Property.						Situational Awareness Enhancement Project. Installs complete Distribution Management Control Center with the following equipment and applications that provide full information	
											New						
	2019 actual																
	2020	s -	s -	s -	1		Dry conditions, high wind speeds, inclement weather									capabilities available to Distribution decision makers relevant to the following functional areas: (1) Energy Resources (2) T&D Assets (3)	
7. Other / not listed	2021	s -	s -	s -	N/A	N/A	that could increase									SCADA, Outge Management System & GS Other Applications (4) SCADA, Outge Management System & GS Other Applications (4) Weather Information (5) HD Cameras (6) Media access (Internet, BVES Website & Social Media, Local Radio, TV, etc. (7) Communications Equipment and (8) Dispatch services. Scheduled for 2022-2023. 3-year execution period, 53-42,000.00 Capts/year-	
	2022	\$ 342,000.00	\$ 342,000.00	s -			ignition risk (e.g. lightning)										
	2020-2022 plan total	\$ 342,000.00	\$ 342,000.00	s -													
	2019 plan	\$ 85,775.61	\$.	\$ 85,775.61													
	2019 actual	\$ 85,775.61	\$ -	\$ 85,775.61													
	2020	\$ 85,775.61	\$.	\$ 85,775.61	N/A		Contact from object, all types of			Wildfire-Significant Loss of Property.	i					GIS-based applications (e.g. Outage Management System).Implementation of GIS-based systems, such as outage	
8. Other / not listed	2021	\$ 85,775.61	\$ -	\$ 85,775.61		N/A	equipment/facility failure, wire-to-wire	148,458.96	1.73	Loss of Energy Supplies.	Existing	D 19-08-027	N/A			management systems and interactive voice response systems, which allow BVES to locate outages and respond to customers	
	2022	\$ 85,775.61	\$ -	\$ 85,775.61			contact/contamination									more promptly in the case of a wildfire or related emergency	
	2020-2022 plan total	\$ 257,326.83	s -	\$ 257,326.83]												
	2019 olan 2019 actual					N/A	Contact from Object. All										
9. Other/not listed	2019 actual 2020	\$ 67.860.00	\$ 67.860.00	s -	N/A		types of equipment/facility failture,	148.458.96	2.19	Wildfire-Significant	New	N/A		l	l	Implement iRestore APP.Provides First Responders and internal Damage Assessment Teams tool to quickly document and report	
J. James / most instead	2021	\$ 67.860.00	\$ 67.860.00			17/0	equipment/facility failture, wire-wire	140,430.30	2.19	Loss of Property		1		1	1	Damage Assessment Teams tool to quickly document and report T&D facility problems to Dispatch.	
1	2022 2020-2022 plan total	\$ 67.860.00		s .		1	contact/contamination	1				l		l	l	rate rating problems to experter.	

5.3.3

Describe utility approach to the following categories of maintenance of transmission lines, distribution lines, and equipment, respectively:

- Routine maintenance programs and protocols (i.e., covering general maintenance approach and programmatic structure),
 Non-routine maintenance, further delineated into:

 Emergency response maintenance/repair, and
 Inspection response maintenance/repair.

Discuss proactive replacement programs versus run-to-failure models for each group, including:

- Whether there are specific line elements or equipment that are prioritized for preventive maintenance or replacement,
 How those programs are established,
 What data or information is utilized to make those determinations, and
 What level of subjectivity is implemented in making those determinations

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description of the utility's initiatives, the utility's nationale behind each of the elements of the initiatives, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct adults or other quality checks on each initiative, how the utility plans to demonstrate over time whether each component of the initiatives is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

- Capacitor maintenance and replacement program
 Circuit breaker maintenance and installation to de-energize lines upon detecting a fault
- Covered conductor installation Covered conductor maintenance

- Covered conductor maintenance Crossarm maintenance, repair, and replacement Distribution pole replacement and reinforcement, including with composite poles Expulsion fuse replacement Grid topology improvements to mitigate or reduce PSPS events Installation of system automation equipment Maintenance, repair, and replacement of connectors, including hotline clamps Mitigation of impact on customers and other residents affected during PSPS event when the properties of the
- Other corrective action
- Pole loading infrastructure hardening and replacement program based on pole loading assessment program

- Pole loading infrastructure hardening and replacement program based on pole loading asses: Transformers maintenance and replacement Transmission tower maintenance and replacement Undergrounding of electric lines and/or equipment Updates to grid topology to minimize risk of ignition in HFTDs Other / not listed [only if an initiative cannot feasibly be classified within those listed above]

For each of the above initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- Before the upcoming wildfire season.
- Before the next annual update
 Within the next 3 years, and
 Within the next 10 years.

See BVES 2020 WMP Chapter 3, Sections 4.1, 4.2, 4.3, and 5.1

3: Grid design and system h	ardening															
Initiative activity	Year	Total per-initiative	Subtotal A: Capital	Subtotal B: Operating	Line miles to be	Spend/ treated line	Ignition probability drivers	Risk reduction	Risk-spend efficiency	Other risk drivers	Existing/ new	Existing: What	If new: Memorandum	In / exceeding compliance with	Cite associated rule	Comments
and acting	2019 plan	spend	espenditure	Operating expenses	treated	mile	targeted	ALIE TEGELESI	efficiency	addressed	Lutting in w	proceeding has reviewed program	account	compliance with regulations	Cité annouaux ion	Commiss
Capacitor maintenance and replacement program	2019 actual 2020															
and replacement program	2021 2022															
2. Circuit breaker	2020-2022 plan total 2019 plan															
maintenance and installation to de-energize	2020															
lines upon detecting a fault	2020-2022 plan total															
	2019 plan 2019 actual															
3. Covered conductor installation	2020 2021	\$ 1,821,993.60 \$ 1,821,993.60	\$ 1,821,993.60 \$ 1,821,993.60	\$.	4.82 4.82	\$ 378,006.97 \$ 378,006.97							WMP			Replaces all 28.93 circuit miles of overhead sub- transmission lines (34.5 kV) with covered wire over a 6-
	2022	\$ 1,821,991.60 \$ 1,821,991.60			4.82	\$ 378,006.97	Contact from object.	872,292.38	0.48	Wildfire-Significant Loss of Property	New	N/A	Memorandum Account			transmission lines (34.5 kV) with covered wire over a 6- year period, 2020-2025. Total CapEx estimated at \$10,931,962.
	2020-2022 plan total 2019 plan	\$ 5,465,980.80	\$ 5,465,980.80	s .	14.46	\$ 378,006.97										320,032,002
4. Covered conductor	2019 actual 2020															
maintenance	2021 2022 2020, 2022 plan total															
5. Crossarm maintenance.	2019 plan 2019 actual															
repair, and replacement	2021															
	2022 2025,2022 when total 2019 plan															
 Distribution pole replacement and reinforcement, including 	2019 actual 2020															
with composite poles	2022 2020-2022 plan total															
7. Expulsion fuse	2019 plan 2019 actual	\$ 2,600,000,00 \$ 572,000,00	\$ 2,600,000,00 \$ 572,000,00	N/A N/A									WMP			
replacement	2020 2021 2022	\$ 4,628,000,00 \$.	\$ 4628,000.00 \$.	S .	N/A	N/A	Fuse failure-all.	872,292.38	0.34	Wildfire-Significant Loss of Property	New	N/A	Memorandum Account			Replaces all conventional (expulsion) fuses with current limiting (ELF) and electronic fuses (Fuse TripSavers).
	2020-2022 plan total 2010 plan	\$ 5,200,000,00	\$ 5,200,000,00	N/A												
8. Grid topology improvements to mitigate	2019 actual 2020															
or reduce PSPS events	2022 2020-2022 plan total															
	2019 plan	\$ 1,940,844.50	\$ 1,940,844.50	s -												
	2019 actual	\$ 155,267.56	\$ 155,267.56	s .												Fully instruments and automates BVES grid. Consists of installing a service area wide network operating on a
9. Installation of system automation equipment	2020	\$ 2,536,036.81	\$ 2,536,036.81	s -	N/A	N/A	Contact from object, all types of equipment/facility failure, wire-to-wire	1,148,135.45	0.22	Wildfire-Significant Loss of Property. Loss of Energy	Existing	D. 19-08-027	N/A			SCADA system, substation automation, remote fault indicators, remote metering and power sensors and
automation equipment	2021	\$ 2,536,036.81	\$ 2,536,036.81	s .		ny n	failure, wire-to-wire contact/contamination	-,,0.40	****	Loss of Energy Supplies	-wantig	_ aronte/	nyn.			Fully instruments and automates BVCS grid. Consists of installing a service area wide network operating on a SLADA system, substation automation, remote fault indicators, remote metering and power sensors and remote switching equipment to enable BVCS to significantly improve its capability or detect and inclusing faults rapidly before wer rolling out a oree. SN completes and faurany 2000. Total Capts of \$7,703,368 over 4-year Execution Period, 2009-2022.
	2022	\$ 2,536,036.81	\$ 2,536,036.81	s .	1					1						complete as of January 2020. Total Captix of \$7,763,368 over 4-year Execution Period, 2019-2022.
	2020-2022 plan total	\$ 7.763.378.00	\$ 7,763,378.00	s .									<u></u>			
10. Maintenance, repair, and replacement of	2019 plan 2019 actual															
and replacement of connectors, including hotline damps	2020 2021 2022															
	2020-2022 plan total 2019 plan															
 Mitigation of impact on customers and other residents affected during 	2019 actual 2020															
PSPS event	2022 2020,2022 plan total															
	2019 plan 2019 actual									Wildfire-Similicant						
12. Other corrective action	2021 2022	5 .	S CAMPANIAN	5 -	0.00	N/A N/A	Contact from object. Conductor failure-all.	2,601,812.47	0.46	Loss of Property. Wildfire-Public	New	N/A	WMP Memorandum Account			Replaces the 34.5 kV Radford line (2.84 overhead circuit miles) with covered power lines and poles that are resistant to fire.
13. Pole loading	2020-2022 plan total 2019 plan 2019 actual	\$ 5,600,000.00	\$ 5,600,000,00	\$.	2.82	\$ 1,985,815.60				Safety.			Account			resistant to tire.
infrastructure hardening and replacement program based on pole loading	2020 2021															
assessment program	2022 2020-2022 plan total															
14. Transformers maintenance and	2019 olan 2019 actual 2020															
replacement	2021															
15. Transmission tower	2019 adual															
maintenance and replacement	2020 2021															
	2020-2022 plan total 2019 plan															
16. Undergrounding of electric lines and/or	2019 actual	\$ 732,018.00 \$ 732,018.00	\$ 732,018.00 \$ 732,018.00	5 .			Contact from object. All			Wildfire-Significant						Replaces all tree attachments in the EVES service area
electric lines and/or equipment (a)	2021	\$ 732,018.00	\$ 732,018.00	s .	N/A	N/A	types of equipment/facility failure. Wire-to-wire contact/contamination.	1,146,143.02	1.57	Loss of Property. Wildfire-Public Safety.	Existing	D. 19-08-027	N/A	Exceeding		with over head or underground lines. Covered in BVES' General Rate Case A. 17-05-004.
	2022 2020-2022 plan total	\$ 732,018.00	\$ 732,018.00 \$ 2,928,072.00		ł											
	2019 plan 2019 actual	\$ 2,643,236.10	\$ 2,643,236.10	٠.	+											Safety and Technical Upgrades to Pineknot substation.
16. Undergrounding of electric lines and/or	2020	\$ 293,692.90	\$ 293,692.90	\$.	N/A	N/A	Contact from object. All types of equipment/facility failure.	1,143,068.47	0.39	Wildfire-Significant Loss of Property.	Existing	D. 19-08-027	N/A			Safety and Technical Upgrades to Pineknot substation. Converts substation from overhead-type to underground and pad-mounted design with deadfront SCADA enabled equipment. Estimated \$2,926,929.00
equipment (b)	2022	\$.	s .	s .	ŧ		failure.			List or Property.						CAPEX over 1 year 2019-2020, 90% complete as of January 2020. Covered in BVES' General Rate Case A.17- 05-004.
	2020-2022 plan total 2019 plan	\$ 2,936,929.00	\$ 2,936,929.00	s .												05404.
16 Understanding of	2019 actual				1		Contact from object. All									Safety and Technical Upgrades to Snow Summit Substation. Converts substation from overhead-type to
 Undergrounding of electric lines and/or equipment (c) 	2020	\$ 1,103,830.18	\$ 1,103,830.18	\$.	N/A	N/A	types of equipment/facility failure.	1,143,069.47	1.04	Wildfire-Signficant Loss of Property.	New	N/A				Substation. Converts substation from overhead-type to underground and pad-mounted design with deadfront SCADA enabled equipment.
	2022 2020-2022 plan total	\$. 5 1.103.830.18	\$. 5 1.103.830.18	s .												acoust enables equipment.
	2019 plan															
16. Undergrounding of electric lines and/or	2019 actual 2020	\$ 1,587,675.00	\$ 1,587,675.00	s .	N/A	N/A	Contact from object. All	1,143,070.47	0.72	Wildfire-Significant	Existing	D. 19-08-027	N/A			Safety and Technical Upgrades to Palomino Substation. Converts substation from overhead-type to
equipment (d)	2021 2022	\$ 1,587,675.00 \$ 1,587,675.00	\$ 1,587,675.00 \$ 1,587,675.00		-		types of equipment/facility failure.			Loss of Property.						underground and pad-mounted design with deadfront SCADA enabled equipment.
	2020-2022 plan total	\$ 4,763,025.00	\$ 4,763,025.00													
16. Undergrounding of	2019 plan 2019 actual				1		Contact from object. All			1						Underground Overhead Bare Wire Program - 34.5 kV System. Reclaces all overhead sub-transmission bare
electric lines and/or equipment (e)	2020	\$ 13,224,000.00 \$ 13,224,000.00	\$ 13,224,000.00 \$ 13,224,000.00		N/A	N/A	types of equipment/facility failure. Wire-to-wire contact/contamination.	872,292.38	0.07	Wildfire-Significant Loss of Property.	New	N/A				System. Replaces all Overhead sub-cranification are wire with underground facilities. 10-year execution period (2020-2029), estimated \$13,224,000.00 CapEx/year.
equipment (e)	2022	\$ 13,224,000.00	\$ 13,224,000.00	5 -	1		contact/contamination.									CapEx/year.
	2020-2022 plan total 2019 plan	\$ 19,672,000.00	\$ 39,672,000.00	s .												
16. Undergrounding of electric lines and/or	2019 actual 2020	\$ 19,252,480.00	\$ 19,252,480.00	٠.	+		Contact from object. All			Mildler Freehouse						Underground Overhead Bare Wire Program - 4 kV System. Replaces all overhead 4 kV distribution bare
electric lines and/or equipment (e)	2021	\$ 39,252,480.00 \$ 39,252,480.00	\$ 39,252,480.00	s -	N/A	N/A	types of equipment/facility failure. Wire-to-wire contact/contamination.			Wildfire-Significant Loss of Property.	New	N/A				System. Replaces all overhead 4 kV distribution bare wire with underground facilities. 10-year execution period 2020-2029, estimated \$39,252,480.000 Capta/year.
	2022 2020-2022 plan total	\$ 19,252,480.00 \$ 117,757,440.00			t											copic/plant.
	2019 plan 2019 actual	s .	s -	s -	+											
16. Undergrounding of electric lines and/or	2020	s .	s .	s .	N/A	N/A	Contact from object. All types of equipment/facility failure. Wire-to-wire			Wildfire-Significant Loss of Property. Loss of Energy	New	N/A	Separate Appliaton to Commission			Underground the UTE line. Transfers SCE Ute Line 1&2 assets to EVES and undergrounds the facilities from Goldhill to EVES Shay and Baldwin Auto Reclosers.
equipment (f)	2021 2022	\$.	\$.	s .	1		contact/contamination.			Supplies						Planned for 2023 at \$3.5 million Captx.
	2020-2022 plan total 2019 plan	s -	s -	s -												
 Updates to grid topology to minimize risk of ignition in HFTDs 	2019 actual 2020 2021															
or ignition in HFTDs	2022 2020-2022 plan total						_									
	2019 plan 2019 actual	\$ 3,513,037.13	\$ 3,513,037.13		18.20	\$ 193,024.02										
18. Other / not listed	2020 2021 2022	\$ 3,513,037.13 \$ 3,513,037.13	\$ 3,513,037.13 \$ 3,513,037.13	5	18.20 18.20	5 193,024.02 5 193,024.02 5 193,024.02	Contact from object.	872,292.38	0.25	Wildfire-Significant Loss of Property	New	N/A	WMP Memorandum Account			Replaces all 181.97 circuit miles of overhead distribution 4 kV bare wire in High Risk Areas with covered wire over a 10 year period, 2020-2029.
	2022 2020-2022 plan total 2019 plan	\$ 10,539,111.39	\$ 3,513,037.13 \$ 10,539,111.39	5	18.20 54.60	5 193,024.02 5 193,024.02							Account			Estimated \$35,130,371 total Capits.
19. Other / not listed	2019 actual 2020	\$ 1,426,900.00	\$ 1.426,900.00	ş -	N/A	N/A	Loss of Energy Supplies.	2,658,561.70	0.19		New	N/A				Bear Valley Solar Energy Project. Constructs 7.9 MW single axis tilt solar generating facility within BVES service area.
	2021 2022 2025,2022 plan held	5 . 5 .	5 . 5 .	5 -	N/A N/A	N/A N/A	4			1						service area.
	2019 nian 2019 adual				~~	WO.							Separate			Construct Energy Storage Facility within BVES Service Territory, Constructs SMW/15MWh (3-hour) Lithium-Ion
20. Other / not listed	2020 2021 2022	5 4575 675 00 5 4575 675.00	5 4575.675.00 5 4575.675.00	s .	N/A	N/A	Loss of Energy Supplies.	2,638,046.13	0.29	1	New	N/A	Separate Application to Commission.			Territory. Constructs SMW/25Mwh (3-hour) Lithium-Ion NMC BESS utility grade battery connected to the Bear Valley Solar Energy Project. Costs are estimates.
	2020-2022 plan total 2019 plan	5 915135000	\$ 915135000	4 .	I											Collined Information INTER Reservoides Availables
21. Other / not listed	2019 actual 2020 2021	\$ 684,000,00 \$ 684,000,00	\$ 684,000,00 \$ 684,000,00	s -	N/A	N/A	Loss of Energy Supplies.	346,994.67	0.51	1	New	N/A	Cost Recovery TBD			Package. Installs utility owned (or partially owned)solar-battery sets at critical infrastructure. 5-
	2022 2020-2022 plan total	\$ 684,000,00 \$ 2,052,000,00	\$ 684,000,00 \$ 2,052,000,00	5 -												year execution period, 2020-2025, estimated \$684,000.00 Capts/year.
22 Oak - 1	2019 plan 2019 actual 2020	5	5	5			made	100000		Wildfire-Significant			WMP			Hardening of overhead facilities along evacuation routes to prevent facilities from falling into evacuation
22. Other / not listed	2021 2022	\$ 1,710,000,00 \$ 1,710,000,00	\$ 1,710,000,00 \$ 1,710,000,00	\$.	N/A	N/A	Wildfire Public Safety.	1,022,629.33	0.6	Loss of Property	New	N/A	Memorandum Account			routes during a wildfire. Estimated \$1,710,000 CAPEX in each year 2021-2025. Pilot program cost \$200,000.
	2020-2022 plan total 2019 plan 2019 artual	> 1420,000,00	> 1.420.000.00													SVPP Reliability Upgrades. Upgrades power plant
23. Other / not listed	2020 2021	\$ 925.484.50 \$ 925.484.50	\$ 925.484.50 \$ 925.484.50	5 .	N/A	N/A	Loss of Energy Supplies.	2,602,297.79	2.81		New	N/A				electronic controls, emissions monitoring systems, catalist reliability, and engine performance.
—	2020-2022 plan total 2019 plan	5 1850 969.00	5 1850 969.00	š :	 					 		 				Alternative Tehonologies (Down Wire Detection Relay
24. Other / not listed	2019 artical 2020	5 .	5 .	5 .	N/A	N/A		1,143,068.47	0.48	Wildfire-Significant Loss of Property	New	N/A	Cost Recovery TBD			Installment Program, Rapid-Earth Fault Current Limiter,
	2022 2020-2022 plan total	\$.	5 .	s :	<u> </u>					Aust or Property						Estimated \$7,113,600 CapEx over 3-year execution period 2023-2025.
-																

Explain the rationale for any utility ignition probability-specific inspections (e.g., "enhanced inspections") within the HFTD as deemed necessary over and above the standard inspections. This shall include information about how (i.e., criteria, protocols, etc.) the electrical corporation determines additional inspections are necessary.

Describe the utility's maintenance protocols relating to maintenance of any electric lines or equipment that could, directly or indirectly, relate to wildfire ignition. Include in the description the threshold by which the utility makes decisions of whether to (1) repair, or (2) replace electric lines and equipment. Describe all electric lines and equipment that the utility "runs-to-failure", those that the utility maintains on a risk-based maintenance plan, and those that are managed by other approaches; describe each approach. Explain the maintenance program that the utility follows and rationale for all lines and equipment.

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description for the utility's programs, the utility's rationale behind each of the elements of this program, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct adults or other quality checks on each program, how the utility plans to demonstrate over time whether each component is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

- Detailed inspections of distribution electric lines and equipment
 Detailed inspections of transmission electric lines and equipment

- 2. Detailed inspections of transmission electric lines and equipment
 3. Improvement of inspections
 4. Infrared inspections of distribution electric lines and equipment
 5. Infrared inspections of transmission electric lines and equipment
 6. Intrusive pole inspections
 7. LIDAR inspections of distribution electric lines and equipment
 8. LIDAR inspections of transmission electric lines and equipment
 9. Other discretionary inspection of distribution electric lines and equipment, beyond inspections mandated by rules and regulations
 10. Other discretionary inspection of transmission electric lines and equipment, beyond inspections mandated by rules and regulations
 11. Partial insertions of distribution electric lines and equipment, beyond inspections mandated by rules and regulations

- 11. Patrol inspections of distribution electric lines and equipment
 12. Patrol inspections of distribution electric lines and equipment
 12. Patrol inspections of transmission electric lines and equipment
 13. Pole loading assessment program to determine safety factor
 14. Quality assurance / quality control of inspections
 15. Substation inspections

- 16. Other / not listed (only if an initiative cannot feasibly be classified within those listed above)

For each of the above initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- Before the upcoming wildfire season, Before the next annual update, Within the next 3 years, and Within the next 10 years.

See BVES 2020 WMP Chapter 3, Sections 4.1, 4.2, 4.3, and Subsection 5.2.1

Asset management and in	rspections															
Initiative activity	Year	Total per-initiative spend	Subtotal A: Capital expenditure	Subtotal B: Operating expenses	Line miles to be treated	Spend/treated line mile	Ignition probability drivers targeted	Risk reduction	Risk-spend efficiency	Other risk drivers addressed	Existing/ new	Existing: What proceeding has reviewed program	If new: Memorandum account	In / exceeding compliance with regulations	Cite associated rule	Comments
	2019 plan															
	2019 actual 2020															
distribution electric lines and equipment	2021															
,	2022 2020-2022 plan total															
	2019 plan															
2. Detailed inspections of	2019 actual 2020															
transmission electric lines and equipment	2020															
and equipment	2022															
	2020-2022 plan total 2019 plan															
	2019 actual															
 Improvement of inspections 	2020															
парессиона	2021 2022															
	2020-2022 plan total															
4. Infrared inspections of	2019 plan 2019 actual															
4. Intrared inspections of distribution electric lines	2020															
and equipment	2021															
	2020-2022 plan total															
	2019 olan															
 Infrared inspections of transmission electric lines 	2019 actual 2020															
transmission electric lines and equipment	2021															
1	2022 2020-2022 plan total	—	—			—			—	1		l	—		—	
	2019 olan	\$ 2,444,130,60	\$ 2,444,130,60	s .			Managed									Test all poles to loading standards,
6. Intrusive pole	2019 actual 2020		\$ 2,444,130.60 \$ 2,444,130.60				All types of equipment/facility failture,			Wildfire-Significant					GO-95	GO95 requirements, intrusive
inspections	2021	S 2.444.130.60	\$ 2,444,130,60	\$.	N/A	N/A	wire-wire	872,292.38	0.36	Loss of Property	Existing	D. 19-08-027	N/A		GO-95	inspection criteria and age and then, replaces or remediates non-compliant
	2022	\$ 2,444,130.60	\$ 2,444,130.60	\$.			contact/contamination									replaces or remediates non-compliant poles.
	2020-2022 plan total 2019 plan	\$ 7.332.391.80	\$ 7.332.391.80	S .												,
7. LiDAR inspections of	2019 actual						Contact from object, all									Conduct LIDAR surveys of BVES
distribution electric lines	2020	\$ 240,000.00 \$ 240,000.00	\$.	\$ 240,000.00 \$ 240,000.00	N/A N/A	N/A N/A	types of equipment/facility failure, wire-to-wire	1,145,870.45	4.77	Wildfire-Significant Loss of Property	New	N/A	WMP Memorandum Account	Exceeding	GO-165	overhead system on a semi-annual basis. RSE is an estimate based on latest
and equipment	2022	\$ 240,000,00	s .	\$ 240,000,00	N/A	N/A	contact/contamination									available risk assessment.
	2020-2022 plan total	\$ 720,000.00	s -	\$ 720,000.00	N/A	N/A										
8. LIDAR inspections of	2019 plan 2019 actual															
transmission electric lines	2020															
and equipment	2022															
9 Other discretionary	2020-2022 plan total															
inspection of distribution	2019 plan 2019 actual															
electric lines and equipment, beyond	2020															
	2021															
	2020-2022 plan total															
inspection of transmission	2019 plan 2019 actual															
electric lines and	2020															
equipment, beyond inspections mandated by	2021															
rules and regulations	2020-2022 plan total															
	2019 plan															
11. Patrol inspections of	2019 actual						Contact from object, all									Conduct annual 2nd Ground Patrol of overhead facilities by 3rd party. This is
distribution electric lines	2020	\$ 90,000.00	s -	\$ 90,000.00 \$ 90,000.00	N/A N/A	N/A N/A	types of equipment/facility failure, wire-to-wire	1,024,621.77	11.38	N/A	New	N/A	WMP Memorandum Account.	Exceeding	GO-165	in addition to BVES GO-165 annual
and equipment	2021	\$ 90,000.00 \$ 90,000.00		\$ 90,000.00 \$ 90,000.00	N/A N/A	N/A N/A	contact/contamination						ALLOUIN.			ground patrol. RSE is an estimate based on latest available risk assessment.
	2020-2022 plan total	\$ 270,000.00	5 .	\$ 270,000.00	N/A	N/A										on latest available risk assessment.
	2019 plan															
	2019 actual															
transmission electric lines and equipment	2020 2021															
ano equipment	2022															
	2020-2022 plan total 2019 plan															
13. Pole loading	2019 actual															
assessment program to	2020 2021	 	 			 			 	1	 		 		 	
determine safety factor	2022															
	2020-2022 plan total 2019 plan	-	-			-			-	-			-		-	
14. Quality assurance /	2019 actual															
quality control of	2020															
inspections	2021 2022	-	—			—			—	1		l	—		-	
	2020-2022 plan total															
	2019 plan 2019 actual	 	 			 			 	1			 		 	
15. Substation inspections	2020															
	2021 2022		ļ			ļ			ļ				ļ			
	2020-2022 plan total															
	2019 plan	\$ 145,000.00 \$ 145,000.00	s .	\$ 145,000.00 \$ 145,000.00			Contact from object, all			1	I		1		1	Electrical Preventative Maintenance Program. Program to conduct
16. Other / not listed	2019 actual 2020	\$ 145,000.00	\$ -	\$ 145,000.00	N/A	N/A	types of equipment/facility	1.145.870.45	7.90	N/A	Existing	D. 19-08-027	N/A		1	preventive maintenance and safety
16. Other / not listed	2021	\$ 145,000.00	s -	\$ 145,000.00	N/A	N/A	failure, wire-to-wire	1,145,870.45	7.90	N/A	Existing	D. 19-08-027	N/A		1	checks on major substation and field
	2022 2020-2022 plan total	\$ 145,000.00 \$ 435,000.00	ς .	\$ 145,000.00 \$ 435,000.00		1	contact/contamination		1		l	l	1		1	equipment. RSE is an estimate based on latest available risk assessment.
	, AVER premional	33,000.00														and a remove has ease as Hell.

Explain the rationale for any utility ignition probability-specific inspections (e.g., "enhanced inspections") within the HFTD as deemed necessary over and above the standard inspections. This shall include information about how (i.e., criteria, protocols, etc.) the electrical corporation determines additional inspections are necessary.

Describe the utility's vegetation treatment protocols relating to treatment of any vegetation that could pose a grow-in or fall-in risk to utility equipment. Include in the description the threshold by which the utility makes decisions of whether to [1]

- Discuss the overall objectives, strategies, and tactics of the electrical corporation for vegetation management. In the discussion,

 1. Address how the electrical corporation has collaborated with local land managers to leverage opportunities for fuel treatment activities and fire break creation, and compliance with other local, state, and federal forestry and timber regulations.

 2. Discuss how the electrical corporation identifies and determines which vegetation is at risk of ignition from utility electric lines and equipment.

 3. Describe how (i.e., criteria, data, protocols, studies, etc.) the utility made the determination to trim any vegetation beyond required clearances in G0 95.

 4. Describe utility plan to mitigate identified trees with strike potential backwise the potential backwise potential backwise address risks that may arise from trimming or removing trees, including but not limited to erosion, wind, flooding, etc.

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires, include a description of the utility's initiatives. the utility's rationale behind each of the elements of the initiatives, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct audits or other quality checks on each initiative, how the utility plans to elements of the initiative spend of ratepayer funds.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row

- Additional efforts to manage community and environmental impacts

 Detailed inspections of vegetation around distribution electric lines and equipment
- Detailed inspections of vegetation around transmission electric lines and equipment Emergency response vegetation management due to red flag warning or other urgent conditions Fuel management and reduction of "slash" from vegetation management activities

- Fuel management and reduction of "slash" from vegetation management activities

 Improvement of inspections

 LiDAR inspections of vegetation around distribution electric lines and equipment

 LiDAR inspections of vegetation around ransmission electric lines and equipment

 LiDAR inspections of vegetation around transmission electric lines and equipment, beyond inspections mandated by rules and regulations

 Other discretionary inspection of vegetation around distribution electric lines and equipment, beyond inspections mandated by rules and regulations

 Patrol inspections of vegetation around distribution electric lines and equipment, beyond inspections mandated by rules and regulations

 Patrol inspections of vegetation around transmission electric lines and equipment

 Autility assurance / quality control of inspections

 Recruiting and training of vegetation management personnel

 Remediation of at-risk species

 Removal and remediation of trees with strike potential to electric lines and equipment

 Substation inspections

 Substation management

 Vegetation inventory system

 Vegetation inventory system

For each of the above initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- 1. Before the upcoming wildfire season,
- Before the next annual update.
- Within the next 3 years, and Within the next 10 years.

See BVES 2020 WMP Chapter 3, Section 4.1, 4.2, 4.3, and Subsection 5.2.2

5: Vegetation management a	and inspections															
initiative activity	Year	Total per-initiative spend	Subtotal A: Capital expenditure	Subtotal B: Operating expenses	Line miles to be treated	Spend/ treated line mile	ignition probability drivers targeted	Blak reduction	Risk-spend efficiency	Other risk drivers addressed	Existing/new	Existing: What proceeding has reviewed program	If new: Memorandum account	in / exceeding compliance with regulations	Cite associated rule	Connects
	2019 plan															
Additional efforts to manage community and	2019 actual 2030															
manage community and environmental impacts	2021 2022															
	2020-2022 plan total 2019 plan	5 1.265 112.69	,	\$ 1,265,112,69												
2. Detailed inspections of	2019 actual	\$ 1.265.112.69	\$.	\$ 1.265.112.69			Contact from object, all types									
vegetation around distribution electric lines	2020 2021	5 3.265.112.69 5 3.265.112.69	s .	\$ 1,265,112,69 \$ 1,265,112,69	N/A	N/A	of equipment/facility failure, wire-to-wire contact/contamination	872,292.38	872,292.38	Wildfire-Significant Loss of Property	Existing	D. 19-08-027	FHPMA (not new)	Exceeding	GD-95	Increases vegetation clearances, criterial for tree removals, and eliminates overhang on sub-transmission. These are above the 2017 baseline vegetation clearances that were in effect before CPUC Decision 17-12-024 December 14, 2017 was adopted.
and equipment	3533	5 1 365 113 69	٠.	\$ 1365 11269			contact/contamination			Loss or Property						Sales regrada caration statement and annual or occurrence 17-12-00 Section 14, 207 was suspen.
	2020-2022 plan total	\$ 9,795,338.07	s -	\$ 9,795,338.07												
3. Detailed inspections of	2019 plan 2019 actual															
 Detailed inspections of vegetation around transmission electric lines and equipment 	2020	-								-		-				
and equipment	2022 2020-2022 plan total															
4. Emergency response	2019 olan 2019 actual															
vegetation management	2020 2020															
vegetation management due to red flag warning or other urgent conditions	2021															
	2020-2022 plan total 2019 plan															
5. Fuel management and reduction of "slash" from	2019 actual															
vegetation management activities	2021															
activities	2022 2020-2022 plan total															
	2019 olan 2019 actual															
 Improvement of Inspections 	2020															
angecours.	2022															
	2020-2022 plan total 2010 plan															
 LIDAR inspections of wegetation around 	2019 actual 2020	⊢ —		=						\vdash		\vdash				
vegetation around distribution electric lines and equipment	2021															
	2022 2020-2022 plan total															
S. LIDAR inspections of	2019 plan 2019 actual															
vegetation around transmission electric lines	2030						_									-
and equipment	2022 2022 2020, 2022 plan total															
s. Uther discretionary inspection of vegetation around distribution electric lines and equipment, beyond inspections	2019 plan															
Inspection of vegetation around distribution electric	2019 actual															
lines and equipment,	2021															
	2022-2022 plan total															
inspection of vegetation around transmission electric lines and equipment, beyond	2019 plan 2016 setual 2020	-								-		-				
around transmission	2020															
equipment, beyond	2022															
THE PERSON NAMED AND ADDRESS OF	2020-2022 plan total 2019 plan															
11. Patrol inspections of venetation around	2019 actual 2020															
vegetation around distribution electric lines and equipment	2021															
	2020-2022 plan total															
12. Patrol inspections of	2019 actual															
 Patrol inspections of vegetation around transmission electric lines and equipment 	2020															
and equipment	2022 2020-2022 plan total															
	2019 plan															
13. Quality assurance /	2020 2020															
quality control of inspections	2021															
	2030-2022 nlas total															These is followed an extract offsy flowing as part of the BST flows. The part of the second of the second flowing controlled and extractions in legal and making for the control to the days and process and extractions for the second process and the second control to the second control to the second control to the second control to the SEC flowing flowing
	2019 plan															Inspections: Inspect and evaluate circuits for hot spot locations, hazard tree identification and outage investigations.
	2019 actual															Auditing: Perform lite-specific work audits to ensure contractors are performing within the specifications set form by sivil. Customer Contacts/Issue Resolution: initiate or follow up in a timely and professional manner on all customer issues that may arise in a
	2019 actual															manner that will support the policies and procedures of BVES. This includeS customer notifications, permit negotiations, conflict
14. Recruiting and training	2020	\$ 145,000.00	s -	\$ 145,000.00			Contact from object, all types									related to BVES's Vegetation Management group.
of vegetation management					N/A	N/A	of equipment/facility failure, wire-to-wire	151,260.94	1.04	Wildfire-Significant Loss of Property	New	WMP Memorandum Account	N/A			Administrative: Perform data entry, spreadsheet work, monitor crew activity sheets, track completed work, capture photo- documentation of specific conditions and other administrative tasks as needed.
personnel	2021	\$ 145,000.00	s -	\$ 145,000.00			contact/contamination									documentation of specific conditions and their administrative traits as needed. Developing Work Plans: Develop work plans that specify the pruning and removal requirements to maintain the utility 80Ws. These plans will be developed in an efficient and string plans when the results of the pruning and removal requirements to maintain the utility 80Ws. These plans will be developed in an efficient and string plans work or a searches stansition to the tree contractors.
	2022	\$ 145,000.00		\$ 145,000.00												we be developed in an emount and straightforward mainter for a seamess transition to the tree contractors. Specialized Projects: Develop and manage specialized projects with an emphasis on reliability and risk management. Perform enhanced
	2022	\$ 145,000.00		\$ 145,000.00												will be developed in an efficient and it sightforward moner for a susmission to the hir occretators. Specialized Projects: Developed and manage procedured projects with an employate on reliability and chan management. Perform enhanced cadage investigations, integrated usin the hardward projects, performed risk assessment and prioritations studies, developed storm regionary articolox, independent storage on progress must not be sound in reproduce plant sections. Contractor 1844 (Characteristics Characteristics at the years and and provides safety behavior modification to high ensure a pregion that has been discussed on passigation management, of briefly in such as provides safety behavior modification to high ensure a pregion that has been discussed on a passigation management, of briefly in such
	2020-2022 plan total	\$ 435,000.00	s -	\$ 435,000.00												Contractor Safety Observations: Observe contractors as they work and provide safety behavior modification to help ensure a program
	2016 mlan															that is best in class not only in vegetation management, but safety as well.
15. Remediation of at-risk	2019 actual															
species	2021															
	2022 2020-2022 olan total															
16. Removal and	2019 olan 2019 actual	<u> </u>														
16. Removal and remediation of trees with strike potential to electric lines and equipment	2020	_								1		1				-
lines and equipment	2022															
	2030, 2022 olan total 2019 plan															
17. Substation inspections	2019 dan 2019 actual 2020															
av. Substation inspections	2021 2022															
1	2020-2022 plan total															
1	2019 plan 2019 artisal									<u> </u>		<u> </u>				
18. Substation vegetation management	2020	+			_	_		_		+ = = =		+ = = =	_		H —	
1	2032 2020-2022 plan total															
	2019 plan															
19. Vegetation inventory	2019 actual 2020	-							-	+	-	+		-	H = =	
19. Vegetation inventory system	2021															
	2020-2022 plan total															
20. Vegetation	2019 actual															
management to achieve clearances around electric	2020															
lines and equipment	2022															
	2020-2022 plan total 2019 plan															
		1							1		1			l	l	
	2019 actual								1		1			l	l	
	2020								1		1			l	l	
21. Other / not listed	2021													l	l	
														l	l	
	2022								1		1			l	l	
	2020-2022 plan total	_							1		1			l	1	

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description of the utility's initiatives, the utility's rationale behind each of the elements of the initiatives, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct audits or other quality checks on each initiative, how the utility plans to demonstrate over time whether each component of the initiatives is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in

1. Automatic recloser operations

2. Crew-accompanying ignition prevention and suppression resources and services

3. Personnel work procedures and training in conditions of elevated fire risk

4. Protocols for PSPS re-energization

5. PSPS events and mitigation of PSPS impacts

6. Stationed and on-call ignition prevention and suppression resources and services

7. Other / not listed joinly if an initiative cannot feasibly be classified within those listed above]

For each of the above initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- Before the upcoming wildfire season,
 Before the next annual update,
 Within the next 3 years, and
 Within the next 10 years.

See BVES 2020 WMP Chapter 3, Sections 4.1, 4.2, 4.3, Section 5.3, and Subsection 5.5.1

Table 26: Grid operations and protocols

Initiative activity	Year	Total per-initiative spend	Subtotal A: Capital expenditure	Subtotal B: Operating expenses	Line miles to be treated	Spend/ treated line mile	Ignition probability drivers targeted	Risk reduction	Risk-spend efficiency	Other risk drivers addressed	Existing/ new	Existing: What proceeding has reviewed program	If new: Memorandum account	In / exceeding compliance with regulations	Cite associated rule	Comments
	2019 plan															Recloser replacement to reduce
	2019 actual 2020	\$ 100,000.00 \$ 200,000.00	\$ 100,000.00 \$ 200,000.00	e .			Contact from object, all types of									electrical sparking, while also helping
Automatic recloser operations	2021	\$	\$ -	\$.	N/A	N/A	equipment/facility failure, wire-	1,115,048.65	3.72	Wildfire-Significant Loss of Property	Existing	D. 19-08-027	N/A			mitigate power outages and
operations	2022	s .	S -	s .			to-wire contact/contamination			Loss of Property						equipment damage. Estimated 33%
	2020-2022 plan total	\$ 200,000.00	\$ 200,000.00	s -												completion in 2019.
	2019 plan															
2. Crew-accompanying	2019 actual															
ignition prevention and	2020															
	2021															
services																
	2020-2022 plan total															
	2019 plan	\$ 65,740.52	\$.	\$ 65,740.52												
3. Personnel work	2019 actual 2020	\$ 65.740.52 \$ 65.740.52	s .	\$ 65.740.52 \$ 65.740.52			Contact from object, all types of									Wildfire Instrastructure Protection
procedures and training in	2021	\$ 65,740.52	\$.	\$ 65,740,52	N/A	N/A	equipment/facility failure, wire-	146.466.53	2.23	Wildfire-Significant	Existing	D. 19-08-027	N/A			Teams. Roles and responsibilities for
conditions of elevated fire risk	2022	\$ 65.740.52	\$.	\$ 65.740.52			to-wire contact/contamination			Loss of Property						staff to respond to protect system infrastructure in case of emergencies.
risk	2020-2022 plan total	\$ 197,221.56	ş -	\$ 197,221.56												initiastructure in case of emergencies.
	2019 plan															
	2019 actual															
4. Protocols for PSPS re-	2020															
energization	2021															
	2020-2022 plan total															
	2019 plan	N/A	N/A	N/A												
	2019 actual	N/A	N/A	N/A												PSPS Protocols, Protocols and
	2020	N/A	N/A	N/A												procedures to respond to and recover
 PSPS events and mitigation of PSPS impacts 	2021	N/A	N/A	N/A	N/A	N/A		18.51	N/A	Wildfire-Significant Loss of Property	Existing/New	D. 19-08-027	WMP Memorandum Account			from de-energization events, which proactively prevent wildfires. Costs
	2022	N/A N/A	N/A	N/A N/A												partially recovered. RSE is an estimate based on latest risk assessment.
	2022-2022 plan total	N/A N/A	N/A	N/A N/A												Dased on latest risk assessment.
	2019 plan	N/A	N/A	N/A												
6. Stationed and on-call	2019 actual															
ignition provention and	2020															
suppression resources and	2021 2022											-				
services																
	2020-2022 plan total															
	2019 plan		N/A	N/A		l							l			Operational Considerations/Special
	2019 actual	N/A	N/A	N/A		l							l			Work Procedures. Operational
7. Other / not listed	2020	N/A	N/A	N/A	N/A	N/A	Contact from object, all types of equipment/facility failure, wire-	N/A	N/A	Wildfire-Significant	Existing	D. 19-08-027	N/A			procedures that are conditioned based
/. Outer / not listed	2021	N/A	N/A	N/A	n/A	n/A	to-wire contact/contamination	n/A	n/A	Loss of Property	Existing	D. 19-08-027	n/A			to optimize the distribution system for
	2022	N/A	N/A	N/A		l							l			wildfire mitigation. Costs recovered in BVES' General Rate Case A.17-05-004.
	2020-2022 plan total		N/A	N/A		l						1	l		1	DVL3 General Mace Case N.17-03-004.

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description of the utility's initiatives, the utility's rationale behind each of the elements of the initiatives, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct audits or other quality checks on each initiative, how the utility plans to demonstrate over time whether each component of the initiatives is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

- across each of the following initiatives. Input the following initiative names into a spreadsheet for

 1. Centralized repository for data

 2. Collaborative research on utility ignition and/or wildfire

 3. Documentation and disclosure of wildfire-related data and algorithms

 4. Tracking and analysis of near miss data

 5. Other / not listed [only if an initiative cannot feasibly be classified within those listed above]

The list provided is non-exhaustive and utilities shall add additional initiatives to this table as their individual programs are designed and structured. Do not create a new initiative if the utility's initiatives can be classified under a provided initiative. For each of the above initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- Before the upcoming wildfire season, Before the next annual update, Within the next 3 years, and Within the next 10 years.

See BVES 2020 WMP Chapter 3, Sections 4.1, 4.2, 4.3, and Subsection 5.2.1

Table 27: Data governance

Data governance		24	\$ 420.00												
Initiative activity	Year		Subtotal A: Capital expenditure		Spend/ treated line mile	Ignition probability drivers targeted	Risk reduction	Risk-spend efficiency	Other risk drivers addressed	Existing/ new	Existing: What proceeding has reviewed program	If new: Memorandum account	In / exceeding compliance with regulations	Cite associated rule	Comments
	2019 plan 2019 actual 2020	\$ 46,382,29 \$ 46,382,29 \$ 46,382,29	s .	\$ 46.382.29 \$ 46.382.29 \$ 46.382.29											GIS Data Collection & Sharing. Maintain an share Geographic Information System (GIS
Centralized repository for data	2021 2022 2020-2022 plan	\$ 46,382.29 \$ 46,382.29	\$ -	\$ 46,382.29 \$ 46,382.29			148,458.96	3.20	Wildfire-Significant Loss of Property.	Existing	D. 19-08-027	N/A			database on system infrastructure for ass management and planning with key stakeholders.
	total 2019 plan	\$ 139,146.87	s -	\$ 139,146.87											staxenoiders.
2. Collaborative research	2019 actual 2020														
on utility ignition and/or	2021														
wildfire	2022 2020-2022 plan total														
	2019 plan														
Documentation and disclosure of wildfire-	2019 actual 2020														
related data and	2021														
algorithms	2020-2022 plan total														
	2019 plan														
4. Tracking and analysis of	2019 actual 2020														
near miss data	2021														
	2020-2022 plan total														
	2019 plan														
	2019 actual 2020														
5. Other / not listed	2021														
	2020-2022 plan total														

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description of the utility's initiatives, the utility's rationale behind each of the elements of the initiatives, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct audits or other quality checks on each initiative, how the utility plans to demonstrate over time whether each component of the initiatives is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following resource allocation methodology and sensitivities initiatives, including a description of the data flow into the calculations involved in each. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

- Allocation methodology development and application
 Risk reduction scenario development and analysis
 Risk spend efficiency analysis
 Other / not listed [only if an initiative cannot feasibly be classified within those listed above]

For each of the below initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- Before the upcoming wildfire season
 Before the next annual update
 Within the next 3 years
 Within the next 10 years

The list provided is non-exhaustive and utilities shall add additional initiatives to this table as their individual programs are designed and structured. Do not create a new initiative if the utility's initiatives can be classified under a provided initiative. Where the columns listed do not apply or cannot be meaningfully calculated for a given resource allocation methodology and sensitivities initiative, "N/A" may be logged in the corresponding cell.

See BVES 2020 WMP Chapter 3, Sections 4.1, 4.2, and 4.3

mesource unocusion metric		300														
Initiative activity	Year	Total per-initiative spend		Subtotal B: Operating expenses	Line miles to be treated	Spend/ treated line mile	Ignition probability drivers targeted	Risk reduction	Risk-spend efficiency	Other risk drivers addressed	Existing/ new	Existing: What proceeding has reviewed program	If new: Memorandum account	In / exceeding compliance with regulations	Cite associated rule	Comments
	2019 plan															
	2019 actual															
 Allocation methodology 																
development and	2021															
	2022															
	2020-2022 plan															
	total															
	2019 plan															
	2019 actual															
2. Risk reduction scenario	2020															
development and analysis	2021															
	2022															
	2020-2022 plan															
	total															
	2019 plan															
	2019 actual															
3. Risk spend efficiency	2020															
analysis	2021															
ununyana	2022															
	2020-2022 plan															
	total															
l	2019 plan															
	2019 actual															
	2020															
4. Other / not listed	2021															
	2022															
l	2020-2022 plan	1	l	l	l	1				1		l			l	
	total	1				1										

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description of the utility's initiatives, the utility's rationale behind each of the elements of the initiatives, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct audits or other qinclude a general description of the overall emergency preparedness and response plan, and detail:

- 1. A description of how plan is consistent with disaster and emergency preparedness plan prepared pursuant to Public Utilities Code Section 768.6, including:

 - Plans to prepare for and restore service, including workforce mobilization (including mutual aid and contractors) and prepositioning equipment and employees
 Emergency communications, including community outreach, public awareness, and communications efforts before, during, and after a wildfire in English, Spanish, and the top three primary languages used in California other than English or Spanish, as determined by United States Census data
 C. Showing that the utility has an adequate and trained workforce to promptly restore service after a major event, taking into account mutual aid and contractors
- 2. Customer support in emergencies, including protocols for compliance with requirements adopted by the CPUC regarding activities to support customers during and after a wildfire, including:

 - Outage reporting
 Support Members
 Support for low income customers
 Billing adjustments
 Deposit waivers
 Extended payment plans
 Suspension of disconnection and nonpayment fees
 - Repair processing and timing
 - g. Repair processing and simmed h. Access to utility representatives
- 1. Coordination with Public Safety Partners, such as stationing utility personnel in county Emergency Operations Cent

Describe utility efforts to identify which additional languages are in use within the utility's service territory, including plan to identify and mitigate language access challenges

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description of the utility's initiatives the utility's rationale behind each of the elements of the initiatives, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct audits or other quality checks on each initiative, how the utility plans to demonstrate over time whether each component of the initiatives is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

1. Adequate and trained workforce for service restoration

2. Community outreach, public awareness, and communications efforts

- Customer support in emergencies
- Disaster and emergency preparedness plan

- Preparedness and planning for service restoration
 Protocols in place to learn from wildfire events
 Other / not listed [only if an initiative cannot feasibly be classified within those listed above]

The list provided is non-exhaustive and utilities shall add additional initiatives to this table as their individual programs are designed and structured. Do not create a new initiative if the utility's initiatives can be classified under a provided initiative.

uality checks on each initiative, how the utility plans to demonstrate over time whether each component of the initiatives is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following resource allocation methodology and sensitivities initiatives, including a description of the data flow into the calculations involved in each. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

- 1. Allocation methodology development and application
- 2. Risk reduction scenario development and analysis
- Risk spend efficiency analysis
 Other / not listed [only if an initiative cannot feasibly be classified within those listed above]

For each of the below initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods

- Before the upcoming wildfire season
- Before the next annual update
- Within the next 3 years Within the next 10 years

The list provided is non-exhaustive and utilities shall add additional initiatives to this table as their individual programs are designed and structured. Do not create a new initiative if the utility's initiatives can be classified under a provided initiative. Where the columns listed do not apply or cannot be meaningfully calculated for a given resource allocation methodology and sensitivities initiative, "N/A" may be logged in the corresponding cell.

For each of the above initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- Refore the uncoming wildfire season
- Before the next annual update,
- Within the next 3 years, and

Within the next 10 years.

See BVES 2020 WMP Table 3-6, Sections 5.5, 5.7, 5.8, & 5.9

Table 29: Emergency planning and preparedne

Emergency planning and p	preparedness	53	588													
Initiative activity	Year	Total per-initiative spend	Subtotal A: Capital expenditure	Subtotal B: Operating expenses	Line miles to be treated	Spend/ treated line mile	Ignition probability drivers targeted	Risk reduction	Risk-spend efficiency	Other risk drivers addressed	Existing/ new	Existing: What proceeding has reviewed program	If new: Memorandum account	In / exceeding compliance with regulations	Cite associated rule	Comments
	2019 plan															
	2019 actual															
 Adequate and trained 	2020															
workforce for service	2021															
restoration	2022															
	2020-2022 plan															
	total															
	2019 plan															
	2019 actual															
2. Community outreach,	2020															
public awareness, and	2021															
communications efforts	2022															
	2020-2022 plan total															
	total 2019 plan															
	2019 plan 2019 actual															
	2019 actual 2020															
Customer support in	2021															
emergencies	2022															
	2020-2022 plan															
	total															
	2019 plan	N/A	N/A	N/A			Contact from									
	2019 actual	N/A	N/A	N/A												Emergency Reporting &
		N/A	N/A	N/A			object, all types of									Procedures. Protocols and
4. Disaster and emergency	2021	N/A	N/A	N/A	N/A	N/A	equipment/facility	N/A	N/A	Wildfire-Significant	Existing	D. 19-08-027	N/A			procedures for staff to respond to
preparedness plan	2022	N/A	N/A	N/A			failure, wire-to-wire			Loss of Property						faults, emergencies, outages,
	2020-2022 plan						contact/contaminati									dissaster events (such as
	total	N/A	N/A	N/A			on									earthquake, wildfire, etc.), etc.
	2019 plan	N/A	N/A	N/A												Post-Incident Recovery,
	2019 actual	N/A	N/A	N/A												Restoration & Remediation.
Preparedness and	2020	N/A	N/A	N/A						Wildfire-Significant						Protocols and procedures to
planning for service	2021	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Loss of Property	Existing	D. 19-08-027	CEMA if applicable			respond to and recover from any
restoration	2022	N/A	N/A	N/A						Loss of Froperty						wildfire or related emergency
	2020-2022 plan total	N/A	N/A	N/A												events.
	2019 plan															
	2019 actual															
6. Protocols in place to	2020															
learn from wildfire events	2021							_								1
	2022															
1	2020-2022 plan	1	1									1				
	total															
	2019 plan															
	2019 actual															
	2020															
7. Other / not listed	2021															
	2022															
	2020-2022 plan	l				l				l	l	l	l		1	
1	total		1						l						1	1

5.3.10 Stakeholder cooperation and community engagement

Description of programs to reduce ignition probability and wildfire consequence

For each of the below initiatives, provide a detailed description and approximate timeline of each, whether already implemented or planned, to minimize the risk of its equipment or facilities causing wildfires. Include a description of the utility's initiatives, the utility's rationale behind each of the elements of the initiatives, the utility's prioritization approach/methodology to determine spending and deployment of human and other resources, how the utility will conduct audits or other quality checks on each initiative, how the utility plans to demonstrate over time whether each component of the initiatives is effective and, if not, how the utility plans to evolve each component to ensure effective spend of ratepayer funds.

Include descriptions across each of the following initiatives. Input the following initiative names into a spreadsheet formatted according to the template below and input information for each cell in the row.

- across each of the following initiatives. Input the following initiative names into a spreadsheet for

 1. Community engagement

 2. Cooperation and best practice sharing with agencies outside CA

 3. Cooperation with suppression agencies

 4. Forest service and fuel reduction cooperation and joint roadmap

 5. Other / not listed [only if an initiative cannot feasibly be classified within those listed above]

The list provided is non-exhaustive and utilities shall add additional initiatives to this table as their individual programs are designed and structured. Do not create a new initiative if the utility's initiatives can be classified under a provided initiative.

For each of the above initiatives, describe the utility's current program and provide an explanation of how the utility expects to evolve the utility's program over each of the following time periods:

- Before the upcoming wildfire season,
- Before the next annual update, Within the next 3 years, and Within the next 10 years.

See BVES 2020 WMP Subsection 5.2.2 and Sections 5.7, 5.8, & 5.9

Table 30: Stakeholder cooperation and community engagement

Initiative activity	Year	Total per-initiative spend		Subtotal B: Operating expenses	Line miles to be treated	Spend/ treated line mile	Ignition probability drivers targeted	Risk reduction	Risk-spend efficiency	Other risk drivers addressed	Existing/ new	Existing: What proceeding has reviewed program	If new: Memorandum account	In / exceeding compliance with regulations	Cite associated rule	Comments
	2019 plan															
	2019 actual															
	2020															
 Community engagement 	2021															
	2022															
	2020-2022 plan															i .
	total															
	2019 plan															
	2019 actual															
Cooperation and best	2020															
	2021															
agencies outside CA	2022															
	2020-2022 plan															i .
	total															
	2019 plan															
	2019 actual															
	2020															
	2021															
	2022															
	2020-2022 plan															i .
	total															
	2019 plan															
	2019 actual															
 Forest service and fuel 	2020															
	2021															
joint roadmap	2022															
	2020-2022 plan	l	l	l		1	l			1		l		l		ı
	total															
	2019 plan															
	2019 actual															
	2020															
	2021															
	2022															
	2020-2022 plan	l	l	l		1	l			1		l		l		ı
	total					1				1						

5.4 Methodology for enterprise-wide safety risk and wildfire-related risk assessment

Describe methodology for identifying and evaluating enterprise wide safety risk and wildfire related risk, and how that methodology is consistent with the methodology used by other electric utilities or electrical corporations. If the risk identification and evaluation methodology is different, the utility shall explain why in this section.

See BVES 2020 WMP Sections 3.1 and 3.2

5.5 Planning for workforce and other limited resources

Include a showing that the utility has an adequately sized and trained workforce to promptly restore service after a major event, taking into account employees of other utilities pursuant to mutual aid agreements and employees of entities that have entered into contracts with the utility.

See BVES 2020 WMP Subsection 5.5.2 and section 5.9

5.6.1 Planned utility infrastructure construction and upgrades

Explain how the utility expects the geographic location of transmission and distribution lines to shift over the three-year plan period and discuss its impact on 1) the utility's risk exposure and 2) the utility's wildfire mitigation strategy. Outline portions of grid within HFTO that are highest cost to serve, by highlighting circuits or portions of circuits that exceed 50.5M per customer in capital cost required to harden. Provide justification for the level of hardening required and why the lowest cost path to harden this equipment exceeds 50.5M per customer, including by describing the various alternatives that were considered to reduce ignition probability and estimated wildfire consequence. For each of these sections of the grid, outline any analysis that was conducted around islanding, serving with microgrids, or providing backup generation, all to reduce the impact of PSPS events and reduce ignition probability and estimated wildfire consequence at the lowest possible cost.

Discuss how the utility wildfire mitigation strategy influenced its plan for infrastructure construction (in terms of additions or removal of overhead lines, including undergrounding of overhead lines) as detailed in Section 3.4.2. Discuss how the utility wildfire mitigation strategy influenced its plan for upgrades to overhead lines and substations as detailed in the Section 3.4.2.

BVES does not have plans in the foreseeable future for new circuit construction for either transmission or distribution. The Ute Ungergrounding initiative is still under the preliminary planning and discussion phase.

See BVES 2020 WMP Sections 2.1, 2.2, 3.2, 3.3.

Table 31: Change in drivers of ignition probability taking into account planned initiatives, for each year of plan

Incident type by ignition probability driver	Detailed risk driver	Are near misses tracked?	Nui	mber of incidents per	year	Average percen	tage likelihood of ign	ition per incident	Number of ignitions per year			
			2020	2021	2022	2020	2021	2022	2020	2021	2022	
	All types of object contact	Y	4	4	2	0.00%	0.00%	0.00%	0	0	0	
	Animal contact	Y	1	1	0	0.00%	0.00%	0.00%	0	0	0	
Contact from object	Balloon contact	Y	0	0	0	0.00%	0.00%	0.00%	0	0	0	
	Vegetation contact	Y	3	3	2	0.00%	0.00%	0.00%	0	0	0	
	Vehicle contact	Y	0	0	0	0.00%	0.00%	0.00%	0	0	0	
	All types	Y	16	14	11	0.00%	0.00%	0.00%	0	0	0	
	Capacitor bank failure	Y	0	0	0	0.00%	0.00%	0.00%	0	0	0	
	Conductor failure—all	Y	3	3	2	0.00%	0.00%	0.00%	0	0	0	
	Conductor failure—wires down	Y	3	3	2	0.00%	0.00%	0.00%	0	0	0	
All types of equipment / facility failure	Fuse failure—all	Y	4	3	3	0.00%	0.00%	0.00%	0	0	0	
All types of equipment / facility failure	Fuse failure—conventional blown fuse	Υ	4	3	3	0.00%	0.00%	0.00%	0	0	0	
	Lightning arrestor failure	Y	0	0	0	0.00%	0.00%	0.00%	0	0	0	
	Switch failure	Y	0	0	0	0.00%	0.00%	0.00%	0	0	0	
	Transformer failure	Y	2	2	1	0.00%	0.00%	0.00%	0	0	0	
Wire-to-wire contact / contamination		Υ	2	1	0	0.00%	0.00%	0.00%	0	0	0	
Other		Y	0	0	0	0.00%	0.00%	0.00%	0	0	0	

Protocols on Public Safety Power Shut-Off

- Describe protocols on Public Safety Power Shut-Off

 Describe protocols on Public Safety Power Shut-Off

 1. Strategy to minimize public safety risk during high wildfire risk conditions and details of the considerations, including but not limited to list and description of community assistance locations and services provided during a denergization event.

 2. Outline of tactical and strategic decision-making protocol for initiating a PSPS/de-energization (e.g., decision tree).

 3. Strategy to provide for safe and effective re-energization of any area that was de-energized due to PSPS protocol.

 4. Company standards relative to customer communications, including consideration for the need to notify priority essential services critical first responders, public safety partners, critical facilities and infrastructure, operators of telecommunications infrastructure, and water utilities/agencies. This section shall also include description of strategy and protocols to ensure timely notifications to commercs, including access and functional needs populations, in the languages prevalent within the utility's service territory.

 5. Protocols for mitigating the public safety impacts of these protocols, including impacts on first responders, health care facilities, operators of telecommunications infrastructure, and water utilities/agencies.

See BVES 2020 WMP Sections 5.5, 5.6, 5.7, 5.8, and 5.9

6 Utility GIS attachments

- 6.1 Recent weather patterns the utillity is unable to provide this data in GIS format at this time
- 6.2 Recent drivers of ignition probability the utillity is unable to provide this data in GIS format at this time
- 6.3 Recent use of PSPS the utillity is unable to provide this data in GIS format at this time
- 6.4 Current baseline state of service territory and utility equipment
- 6.5 Location of planned utility equipment additions or removal the utillity is unable to provide this data in GIS format at this time
- 6.6 Planned 2020 WMP initiative activity by end-2022 the utillity is unable to provide this data in GIS format at this time

See Zipped "BVES Area Map Files.zip" folder, comprising all utility assets and available data for GIS mapping