

We thank you for your time spent taking this survey. Your response has been recorded.

Below is a summary of your responses

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Purpose of utility survey:

This survey, in addition to other inputs, will be used to inform the utility's maturity level to establish a level for the current year (2021), as well as establish a target maturity for 2023.

The assessment of maturity will also leverage each utility's WMP submission, other supporting documents and disclosures, and select audits of relevant inputs where deemed necessary.

Instructions for answering each of the survey questions:

Utilities shall answer survey questions by:

- 1. Indicating the most appropriate response option to each question based on the <u>presently employed practices and capabilities</u> of the utility.
- Indicating the most appropriate response to each question for the
 utility's expected capabilities in 3 years (Q1, 2023) based on expected growth in
 maturity over the 3 year period of the Wildfire Mitigation Plan (WMP) to inform
 the utility's 3-year target maturity.

Only one response option should be selected unless the question is specified as

select all that apply.

Importantly, utilities shall only indicate that they meet a given response option if they meet <u>all</u> of the characteristics described within that response option, across <u>all instances</u> where that question is valid.

For example, if a utility meets all criteria for answer ii of a given question and all but one criterion for answer iii, that utility must select answer ii. Similarly, if a utility meets all criteria for answer ii of a given question over 60% of its territory but meets all criteria for answer i over 100% of its territory, the utility must select answer i.

Instructions for use of the electronic survey:

Please fill out the electronic survey in its entirety.

The unique link provided to you can be used on multiple devices. Please only use on a single device at a time. To avoid creation of any conflict copies, please allow 15 minutes to pass before switching between devices. For example, if passing the survey off to a colleague on a different machine please have the colleague wait for 15 minutes after you stop working to begin.

If you are completing the survey in multiple sittings, your progress will be saved. You may use the unique link provided to you to resume where you left off.

Confirmation of survey responses:

Within 24 hours of completing and submitting the survey in its entirety, the main utility contact designated below will receive a PDF of your responses for final verification by email. Please review that document, confirm all of your responses one final time, and provide your signature as instructed in the PDF.

Your responses will be evaluated by the CPUC following this final verification.

A. Risk mapping and simulation

A.I Climate scenario modeling and sensitivities

Capability 1

A.l.a How sophisticated is utility's ability to estimate the risk of weather scenarios?

<u>Clarification</u>: Determining wildfire risk requires the utility to understand the probability of ignition and the consequences of such an ignition while taking various conditions into account (e.g., weather, fuel levels, etc.). Categorizing level of risk requires a set of calculations and judgements to group areas by wildfire risk level whereas quantitatively estimating risk refers to accurately quantifying risk on a continuous spectrum based on a host of wildfire risk drivers (e.g., as a function of ignition probability, propagation scenarios, and communities located in the propagation path).

	i. No clear ability to understand incremental risk under various weather scenarios	ii. Wildfire risk can be reliably determined based on weather and its impacts	iii. Weather scenarios can be reliably categorized by level of risk	iv. Risk for various weather scenarios can be reliably estimated	v. Incremental risk of foreseeable weather scenarios can be accurately and quantitatively estimated
Current Year		. 0	. 0	. 0	. 0
by Start of 2023	. 0		. 0	. 0	. 0

A.I.b How are scenarios assessed?

<u>Clarification</u>: Per the instructions, please only indicate that you meet a given response option if <u>you</u> meet all the characteristics described within that response option). So, hypothetically, if you do support your scenarios assessment by historical data of incidents and near misses and conduct internal assessments, but don't have an independent expert assessment, you would select (ii).

	i. No formal assessment process	ii. Independent expert assessment	iii. Independent expert assessment, supported by historical data of incidents and near misses	expert assessment, supported by historical data of incidents and near misses, and updated based on real-time learning during weather event
Current Year	•	0	0	0
by Start of 2023	. 0			. 0

A.I.c How granular is utility's ability to model scenarios?

	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit- based	iv. Span-based	v. Asset-based
Current Year	. 0		0	. 0	. 0
by Start of 2023	. 0	0	•	0	0

A.I.d How automated is the tool?

<u>Clarification</u>: For clarification on level of automation please refer to the 'level of systematization and automation' in Table 2 of the Maturity Model. (i) in this case corresponds to level 0; (ii) corresponds to level 1 or 2; (iii) corresponds to level 3; and (iv) corresponds to level 4

	i. No	ot automated	d	ii. Partially (<50%)	iii. Mostly (≥ 50%)	iv. Fully
Current Year	a.			0	0	0
by Start of 2023				0	0	0

A.l.e What additional information is used to estimate model weather scenarios and their risk?

	i. N	one	ii. Weather, how weather effects failure modes and propagation	iii. Weather, how weather effects failure modes and propagation, existing hardware	iv. Weather, measured at the circuit level, how weather effects failure modes and propagation, existing hardware	iv. Weather, measured at the circuit level how weather effects failure modes and propagation, existing hardware, level of vegetation
Current Year		C		. 0	. 0	. 0
by Start of 2023		O	. 0	. 0		. 0

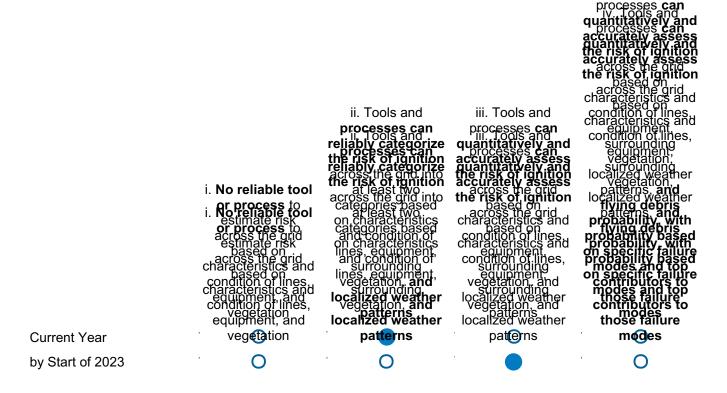
A.I.f To what extent is future change in climate taken into account for future risk estimation?

				iv. Modeling with multiple scenarios used to estimate effects of a
			iii. Basic	changing climate
			temperature	on future weather
		ii. Future risk	modeling used to estimate effects of	and risk, taking into account difference
	i. Future climate change not accounted for in estimating future weather and resulting risk	estimates take into account generally higher risk across entire service territory due to changing climate	a changing climate on future weather and risk, taking into account difference in geography and vegetation	in geography and vegetation, and considering increase in extreme weather event frequency
Current Year		. 0	•	. 0
by Start of 2023	. 0		0	0

A.II Ignition risk estimation

Capability 2

A.II.a How is ignition risk calculated?



A.II.b How automated is the ignition risk calculation tool?

<u>Clarification</u>: For clarification on level of automation please refer to the 'level of systematization and automation' in Table 2 of the Maturity Model. (i) in this case corresponds to level 0; (ii) corresponds to level 1 or 2; (iii) corresponds to level 3; and (iv) corresponds to level 4

	i. N	Not automate	ed	ii. Partially (<50%)		iii. Mostly (≥ 50%)	iv. Fully
Current Year			•	0	i	0	0
by Start of 2023	4	0				0	0

A.II.c How granular is the tool?

	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit- based	iv. Span-based	v. Asset-based
Current Year	. 0	. 0		0	. 0
by Start of 2023	. 0	. 0		. 0	. 0

A.II.d How is risk assessment confirmed? Select all that apply.

	i. By experts	ii. By I	historical data	i. Through real- time learning	iv. None of the above
Current Year					
by Start of 2023					

A.II.e What confidence interval, in percent, does the utility use in its wildfire risk assessments?

	confi de nce interval	>80%	>90%	>95%
Current Year	quantified confidence interval	>80%	>90%	>95%
by Start of 2023	•	0	0	· O
A.III Estima communitie Capability 3	S		-	for
A.III.a How is est	imated conseque	ence of ignitio	n relayed?	
	i. No translation of ignition risk estimates to potential consequences for communities	ii. Ignition events categorized as ow or high risk to communities	iii. Ignition events categorized with 5 or more levels of risk to communities	iv. Consequence of ignition events quantitatively, accurately, and precisely estimated
Current Year	0	0	0	•
by Start of 2023	0	0	0	•
A.III.b What metrrisk?	ics are used to e	stimate the co	onsequence o	f ignition
	i. As a function of at loone of the followin structures burned, potential fatalities, or a burned	g: ii. As a function potential fatalit	pc struc n of at least bu iies, and one dama tructures quali	a function of at least of tential fatalities, tures burned, area irned, monetary iges, impact on air ity, and impact on G reduction goals
Current Year	•	. 0	'	0
by Start of 2023	. 0		,	0
A.III.c Is the ignit	ion risk impact a	nalysis availa	ble for all sea	sons?
	i. No)	ii. Y	'es
Current Year	. 0			
by Start of 2023	. 0			
A.III.d How auton	•		-	
Clarification: For clarific	cation on level of autor	nation please refer	to the 'level of sys	stematization and
automation' in Table 2	of the Maturity Model.	(i) in this case corr	responds to level 0); (ii) corresponds
to level 1 or 2; (iii) corre	esponds to level 3; and	I (iv) corresponds t	to level 4	
Current Year	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥ 50%)	iv. Fully
by Start of 2023	0		0	0

A.III.e How grant	ular is the igniti	on risk estimat	tion process?	
	i. Less granular than regional, or no tool at all		ircuit- sed iv. Span-bas	sed v. Asset-based
Current Year	. 0	0 .	. 0	. 0
by Start of 2023	. 0	0	0	0
A.III.f How are the evaluated?	e outputs of the	e ignition risk i	mpact assessi	ment tool
	i. Outputs not evaluated	ii. Outputs independently assessed by experts	iii. Outputs independently assessed by experts and confirmed by historical data	iv. Outputs independently assessed by experts and confirmed based on real time learning, for example, using machine learning
Current Year	. 0	•	0	. 0
by Start of 2023	. 0	. 0		0
A.III.g How other	i. Level and conditions of vegetation and weather	ii. Level and conditions of vegetation and weather, including the vegetation specifies immediately surrounding the ignition site	iii. Level and conditions of vegetation and weather, including the vegetation specifies immediately surrounding the ignition site and up-to-date moisture content, local weather patterns	iv. None of the above
			. 0	-
by Start of 2023	tion of wil	O dfire and I		o voduction
A.IV Estima impact Capability		uiile aliu i	-3F3 115K-	reduction
A.IV.a How is ris	k reduction imp	pact estimated	?	
i. No cle estimati e of risk reductio	on ii. Approach accur estimates ris	k risk reduction	tes risk reduction n potential of	interval scale (e.g. specific

	potential across most initiatives	initiatives categoric (e.g. High, Mediur Low)		e.g. (e.g. specific quantitative units)	with appare that ive reliably testinates risking two tion
Current Year	i. No clear	. 0	iii. Approach		 potential of initiatives on an
by Start of 2023	estimation of risk reduction	ii. Approach accurat estimates risk reduction potential	risk reductio	n potential of	interval scale (e.g. specific quantitative units)
A.IV.b Ho	w automa	ated is your ig	nition risk red	duction impact	assessment
tool?					
Clarification: F	or clarificati	ion on level of auto	mation please ref	er to the 'level of sys	tematization and
automation' in	Table 2 of t	the Maturity Model.	(i) in this case co	orresponds to level 0;	(ii) corresponds
to level 1 or 2	; (iii) corresp	oonds to level 3; and	d (iv) corresponds	s to level 4	
		i. Not automated	ii. Partially (<50%)	iii. Mostly (≥50%)	iv. Fully
Current Year			0	0	0
by Start of 202	3	. 0		0	0
tool? Current Year by Start of 202		i. Less granular than regional, or no tool at all ii.		circuit- esed iv. Span-base	ed v. Asset-based O
A.IV.d Hov	v are igni	tion risk reduc	ction impact a	assessment too	l estimates
assessed?	?				
		i. No or limited formal evidence or support for estimates	ii. With evidence and logical reasoning	iii. Independent expert assessment	iv. Independent expert assessment, supported by historical data of incidents and near misses
Current Year		0		0	0
by Start of 202	3	0	0		0
A.IV.e Wh	at additio	onal informatio	on is used to	estimate risk re	duction

impact?

iv. Existing hardware type and condition, including hardware type operating

iii. Existing

v. Existing hardware type and condition, including operating history; level and condition of vegetation; weather; and

	i. None	ii. Existing hardware type and condition	and condition, including operating history	history; level and condition of vegetation; weather	combination refrivitiatives and toad von, dentered
Current Year	. 0	. 0	. 0	iv. E <mark>xis</mark> ting hardware type	operating history; level
by Start of 2023	. 0	. 0	iii. Existing	and condition, including	and condition of vegetation;

A.V Risk maps and simulation algorithms Capability 5

Clarification on terminology: A risk map is a collection of data sufficient to represent the spatial distribution (e.g., across a geography) of a given type of risk (i.e., the probability of an event and its consequence) and the spatial representation thereof. Risk maps may include maps of the probability of ignition along the utility's grid and may represent the consequences given ignition at various points along the grid. Risk maps may also combine these factors to show a weighted probability and consequence risk level across the utility's grid. Data inputs should include the variables and conditions used to calculate risk for a given point, line, or polygon. The risk mapping algorithm is a methodology or formula for interpreting a risk calculation from these data inputs.

A.V.a What is the protocol to update risk mapping algorithms?

	i. No defined process for updating risk mapping algorithms	ii. Risk mapping algorithms updated based on detected deviations of risk model to ignitions and propagation	iii. Risk mapping algorithms updated continuously in real time
Current Year		•	0
by Start of 2023	. 0		0

A.V.b How automated is the mechanism to determine whether to update algorithms based on deviations?

<u>Clarification</u>: For clarification on level of automation please refer to the 'level of systematization and automation' in Table 2 of the Maturity Model. (i) in this case corresponds to level 0; (ii) corresponds to level 1 or 2; (iii) corresponds to level 3; and (iv) corresponds to level 4

	i. N	Not automate	d	ii. Partially (<50%)	iii. Mostly (≥50%)	iv. Fully
Current Year		0			0	0
by Start of 2023		0	•		0	0

A.V.c How are deviations from risk model to ignitions and propagation detected?

by Start of 2023	calculated	ii. M <mark>an</mark> ually	process	iv. Fully automated process
A.V.d How are de	cisions to upo	late algorithms	evaluated?	
	i. Not currently eva	ii. Indepe aluated evaluated l	endently evalu	i. Independently ated by experts and historical data
Current Year	. 0			0
by Start of 2023	. 0			
A.V.e What other of algorithms?	data is used to	o make decision	s on whether	to update
	i. Historic h ignition and	iii. Curre Current and historic istoric ignition an and propag propagation data; data miss	ignition miss data d data fron gation other utilit near- and othe	tion on r- a; n ies r v. None of the
Current Year		0	. 0	. 0
by Start of 2023	. 0	0	. 0	. 0
B. Situati B.I Weather Capability 6	variables	collected		recasting
Current Voor	i. Wind data being collected is insufficient to properly understand wind related risks along grid	ii. Wind being measured accurately enough along the grid to estimate ignition probability	iii. Range of accurate weather variables (e.g. humidity, precipitation, surface and atmospheric wind conditions) that impact probability of ignition and propagation from utility assets	iv. Range of accurate weather variables that impact probability of ignition and propagation from utility assets; additional data to measure physical impact of weather on grid collected (e.g., sway in lines, sway in vegetation)

by Start of 2023

B.I.b How are measurements validated?						
	i. Measurements i currently validat		eld calibration rements cal	iii. Automatic field ibration measurements		
Current Year	. 0			0		
by Start of 2023	. 0			0		
RIC Are eleme	nts that cannot b	e reliahly mea	sured in real	l time heina		
	fuel moisture con	_		tune being		
	i. N	·	i	i. Yes		
Current Year						
by Start of 2023						
B.I.d How many	y sources are bei	ng used to pro	ovide data or	ı weather		
metrics being c						
	i. None	ii. (One	iii. More than one		
Current Year	. 0)			
by Start of 2023	. 0) ·			
B.II.a How gran	ular is the weath	er data that is	collected?			
	i. Weather data collected does not accurately reflect local weather conditions across grid infrastructure	ii. Weather data has sufficient granularity to reliably measure weather conditions in HFTD areas	iii. Weather data has sufficient granularity to reliably measure weather condition in HFTD areas, and along the entire grid ar in all areas needed to predic weather on the grid	in HFTD areas, and along the entire grid and in all areas needed to predict weather on the grid. Also includes wind estimations at various atmospheric		
Current Year	. 0	0		0		
by Start of 2023	0	0	0			
B.II.b How frequency	uently is data gat	hered?				
	i. Less					
	frequently than ii hourly		east four iv. At lea per hour times pe	,		

Current Year	i. Less		<i>—</i>	O
by Start of 2023		ii. Aleast iii. At le hourly times p	er hour iv. At least er hour times per h	
B.II.c How grar	nular is the tool?			
	i. Less granular than regional, or no tool at all i	iii. Ci i. Regional bas		ased v. Asset-based
Current Year	. 0			. 0
by Start of 2023	. 0	0	. 0	. 0
B.II.d How auto	mated is the pro	cess to measu	re weather co	nditions?
Clarification: For clar	rification on level of aut	omation please refe	er to the 'level of sy	stematization and
automation' in Table	2 of the Maturity Mode	el. (i) in this case co	rresponds to level	0; (ii) corresponds
to level 1 or 2; (iii) co	orresponds to level 3; a	nd (iv) corresponds	to level 4	
	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥50%)	iv. Fully
Current Year	. 0	. 0	0	•
by Start of 2023		. 0	0	•
B.III.a How sop	histicated is the	utility's weathe	er forecasting	ability?
B.III.a How sop	histicated is the	ii. Utility has independent weather forecasting	iii. Utility has the ability to use a combination of accurate weather	ability? iv. Utility has the ability to use a combination of accurate weather stations and external weather data to make accurate forecasts, and adjusts them in real time based
	i. No reliable independent weather forecasting ability	ability sufficiently accurate to fulfill PSPS requirements	stations and external weather data to make accurate forecasts	on a learning algorithm and updated weather inputs
Current Year	. 0	0		0
by Start of 2023	. 0	0		. 0
B.III.b How far	in advance can a	ccurate foreca	sts be prepare	nd2
				tu :
	i. Less than two we advance	eeks in ii. At least to adva		least three weeks in advance
Current Year				least three weeks in

B.III.c At what lev	vel of granularit	y can f	orecasts	be prep	ared?	
	i. Less granular than regional, or no forecasts at all ii	. Regional	iii. Circ base		oan-based	v. Asset-based
Current Year	. 0	0		•	0	. 0
by Start of 2023	. 0	0			0	0
B.III.d How are re	esults error-che	cked?				
	i. Results are not c checked	error	ii. Results a checked a historical v patter	against weather	met, an results are error che	a for option (ii) Id forecasted E subsequently Ecked against Id weather data
Current Year			0		•	
by Start of 2023	. 0	•	0		1	
B.III.e How auton Clarification: For clarific automation' in Table 2 of to level 1 or 2; (iii) corre	cation on level of auto	omation p	lease refer s case corr	esponds to		
	i. Not automated		rtially 50%)	iii. Mostl (≥50%		iv. Fully
Current Year	. 0)		•	0
by Start of 2023	0	. ()			0
B.IV Extern Capability 9 B.IV.a What sour						casting
	i. Utility does not use external weather data	used who measur from utili weather	nal data ere direct ements ity's own stations available	iii. Utility uso combinatio accurate wea stations a external wea data	es a ex on of data ather us nd as ather con	. Utility uses a ombination of curate weather stations and ternal weather a, and elects to e the data set, a whole or in mposite, that is nost accurate
Current Year	. 0				•	0
by Start of 2023						0

B.IV.b How is weather station data checked for errors?

Current Year by Start of 2023	i: Weather station data is not checked for effors	ii: Mosti manua Brocesses erfor eneci Weathe stations w external d sources	For	iii: Mostly automated Brocesses for Brocesses for Weather Stations with external data \$8UFCES	auten Breses erfer er Wea station externi seu	ABIETELY HATES HEES HOR HEES WITH ALL CHARLES HEES HEES HEES HEES HEES HEES HEES H	Sempletely automated processes for error checking weather stations with external data sources; and where the utility builds new weather stations or calibrates existing stations; it is based on these error checking process.
B.IV.c For what is	weather dat	ta used?	?				
Current Year by Start of 2023	i. Weather data i		prod weath	ther data is us luce a combin er map that ca ed to help mak decisions	i ed to in be	o create a and con nap that	er data is used a single visual figurable live can be used to ake decisions

B.V Wildfire detection processes and capabilities *Capability 10*

B.V.a Are there well-defined procedures for detecting ignitions along the grid?

	i. No	ii. Yes
Current Year	0	
by Start of 2023	0	

B.V.b What equipment is used to detect ignitions?

equipment for iii. Well-defined detecting ignitions equipment for along grid, detecting ignitions including remote along grid, detection ii. Well-defined including remote i. No consistent equipment set of equipment equipment for detection including cameras, for detecting and satellite detecting ignitions equipment

iv. Well-defined

	ignitions along grid	along grid	including cameras	monitoring iv. Well-defined
Current Year	0	0	0	equipment for
by Start of 2023	. 0	0	iii. Well-defined equipment for detecting ignitions	detecting ignitions along grid, including remote

v. Procedure

B.V.c How is information on detected ignitions reported?

	i. Detected ignitions are not reported	ii. Procedure exists for notifying suppression forces	iii. Procedure exists for notifying suppression forces and key stakeholders	iv. Procedure automatically, accurately, and in real time notifies suppression forces and key stakeholders	automatically, accurately, and in real time notifies suppression forces and key stakeholders, and tracks and reports propagation paths to suppression forces in accurately and in real time
Current Year	. 0	. 0		. 0	. 0
by Start of 2023	. 0	. 0		. 0	. 0

B.V.d What role does ignition detection software play in wildfire detection?

	i. Ignition detection software not currently deployed	ii. Ignition detection software in cameras used to augment ignition detection procedures	iii. Ignition detection software in cameras operates automatically as part of ignition detection procedures	for option iii., and software automatically reports any ignition event to suppression forces accurately and in real time
Current Year	. 0			. 0
by Start of 2023				. 0

C. Grid design and system hardening

<u>Clarification</u>: 'Hardening' refers to grid hardening as defined in the WMP guidelines: Actions (such as equipment upgrades, maintenance, and planning for more resilient infrastructure) taken in response to the risk of undesirable events (such as outages) or undesirable conditions of the electrical system in order to reduce or mitigate those events and conditions, informed by an assessment of the relevant risk drivers or factors.

C.I Approach to prioritizing initiatives across territory

C.I.a How are wildfire risk reduction initiatives prioritized?

	i. Plan does not clearly prioritize initiatives geographically to focus on highest risk areas	ii. Plan prioritizes risk reduction initiatives to within only HFTD areas	iii. Plan prioritizes wildfire risk reduction initiatives based on local geography and conditions within only HFTD areas	iv. Plan prioritizes wildfire risk reduction initiatives at the span level based on i) risk modeling driven by local geography and climate/weather conditions, fuel loads and moisture content and topography ii) detailed wildfire and PSPS risk simulations across individual circuits	prioritizes wildfire risk reduction initiatives at the asset level based on i) risk modeling driven by local geography and climate/weather conditions, fuel loads and moisture content and topography ii) risk estimates across individual circuits, including estimates of actual consequence, and iii) taking power delivery uptime into account (e.g. reliability, PSPS, etc.)
Current Year	. 0		. 0	. 0	. 0
by Start of 2023	. 0	. 0		. 0	. 0
-			_		

v. Plan

C.II Grid design for minimizing ignition risk

Capability 12

C.II.a Does grid design meet minimum G095 requirements and loading standards in HFTD areas?

	i. No		ii. Yes	 iii. Grid topology exceeds design requirements, designed based on accurate understanding of drivers of utility ignition risk
Current Year	0			0
by Start of 2023	0	-	0	

C.II.b Does the utility provide micro grids or islanding where traditional

	i.	No	ii	. Yes
Current Year		0	•	
by Start of 2023		0		
C.II.c Does rout	ing of new portic	ons of the grid	take wildfire	risk into
account?				
	i. ·	Yes	i	i. No
Current Year				0
by Start of 2023			•	0
C.II.d Are effort	s made to incorp	orate the lates	t asset mana	gement
strategies and ı	new technologies	s into grid topo	ology?	_
	i. No		e effort made iii. ` D areas	Yes, across the entire service area
Current Year			•	0
by Start of 2023	. 0) ·	
Capability	el of redundancy	•		J
	i Many single	points of failure		for all circuits subject PSPS
Current Year	' many single			0
by Start of 2023			•	0
C.III.b What level have?	el of redundancy	does the utility	y's distributio	on architecture
	i. Many single points of failure	ii. n-1 redundancy covering at least 50% of customers in HFTD	iii. n-1 redundanc covering at least 70% of customers in HFTD	
Current Year	•	. 0	. 0	. 0
by Start of 2023	•	0	0	0
C.III.c What leve	el of sectionalizat	tion does the u	ıtility's distrik	oution

gila ililiasti ucture is ililpracticable alla wildine risk is iligir:

architecture have?

	i. Many single points of failure	ii. Switches in HFTD areas to individually is Sain chey ita	in State resita I APPO States o in State of Courts, suctamental with Engla	is staticine italian is estaticine italian ita italian	individually is state in early is state in early in early is the last of the early is the early in early
Current Year	i. Many single points of	HFTD areas to	customers sit within one	customers sit within one	customers sit within one
by Start of 2023	fai lu re	individually isolate circuits	switch	switch	switch

C.III.d How does the utility consider egress points in its grid topology?

	i. Does not consider	ii. Egress points used as an input for grid topology design	iii. Egress points available and mapped for each customer, and potential traffic mapped based on traffic simulation and taken into consideration for grid topology design	available and mapped for each customer, with potential traffic simulated and taken into consideration for grid topology design, and microgrids or other means to reduce consequence for customers at frequent risk of PSPS
2 437	·	. O	. O	
Current Year		O	O	O
by Start of 2023			. 0	0

C.IV Risk-based grid hardening and cost efficiency Capability 14

C.IV.a Does the utility have an understanding of the risk spend efficiency of hardening initiatives?

<u>Clarification</u>: 'Hardening initiatives' refers to all initiatives implemented by utility or by other utilities in California

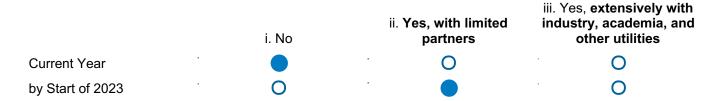
	i. Utility has no clear understanding of the relative risk spend efficiency of hardening initiatives	ii. Utility has an accurate understanding of the relative cost and effectiveness of different initiatives	iii. Utility has an accurate understanding of the relative cost and effectiveness of different initiatives, tailored to the circumstances of different locations on its grid
Current Year	. 0		0
by Start of 2023		•	0

C.IV.b At what level can estimates be prepared?

i. Less granular

	than regional, i. Less granular or nordical than		ırcuit- sed iv. Span-ba ircuit-	ased v. Asset-based
Current Year	than regional, or notat all			ased [°] v. Ass ⊕ based
by Start of 2023	. 0	0	. 0	. 0
C.IV.c How fred	quently are estim	ates updated?		
	i. Never		quently than iii. ually	Annually or more frequently
Current Year				0
by Start of 2023	. 0)	
C.IV.d What gri	d hardening initi	atives does the	utility include	e within its
evaluation?				
Clarification: 'All Har	rdening initiatives' refe	rs to all initiatives im	plemented by utilit	y or by other
utilities in California				
	i. None	ii. Some iii. I	Most iv. All	v. All, supported by independent testing
Current Year	· O	ii. Goriic iii. i	O O	·
by Start of 2023	. 0		. 0	. 0
•				
of various initia			_	
0		. No	II.	Yes
Current Year				
by Start of 2023		O		
C.V Grid o	design and a v 15	asset inno	vation	
C.V.a How are	new hardening s	olution initiativ	es evaluated?	
	i. No established program for evaluating the risk spend efficiency or new hardening initiatives	evaluated based on installation into	iii. New initiatives evaluated based on installation into grid and measuring direct reduction in ignition events, and measuring reduction impact on near-miss metrics	testing based on installation into grid and measuring
Current Year	. 0	•	0	0

C.V.b Are results of pilot and commercial deployments, including project performance, project cost, geography, climate, vegetation etc. shared in sufficient detail to inform decision making at other utilities?



C.V.c Is performance of new initiatives independently audited?

		ii. Yes	
Current Year			0
by Start of 2023			0

D. Asset management and inspections

D.I Asset inventory and condition assessmentsCapability 16

D.I.a What information is captured in the equipment inventory database?

	i. There is no service territory- wide inventory of electric lines and equipment including their state of wear or disrepair	ii. There is an accurate inventory of equipment that may contribute to wildfire risk, including age, state of wear, and expected lifecycle	iii. There is an accurate inventory of equipment that may contribute to wildfire risk, including age, state of wear, and expected lifecycle, including records of all inspections and repairs	iv. There is an accurate inventory of equipment that may contribute to wildfire risk, including age, state of wear, and expected lifecycle, including records of all inspections and repairs and up-to-date work plans on expected future repairs and replacements	v. There is an accurate inventory of equipment that may contribute to wildfire risk, including age, state of wear, and expected lifecycle, including records of all inspections and repairs and up-to-date work plans on expected future repairs and replacements wherein repairs and sensor outputs are independently audited
Current Year	. 0		. 0	0	. 0
Start of 2023	. 0	. 0		. 0	. 0
		_		_	_

		i. Never	ii. Annually	iii. Qua	arterly	iv. Monthly	v. Hourly
Current Year		0				0	. 0
Start of 2023		0				0	. 0
D.I.c Does all equi	-		D areas	have th	e abilit	y to det	ect and
respond to manuf	ICL	10115 :					iv Sonsorizod
		. No system and approach are in blace to detect or respond to malfunctions	place to detect ii malfuncti	h are in reliably ncipient	iii. Sens contin monit equipme place to d the sta equipme reliably incip malfunctio to cause	oring ent is in etermine ate of ent and detect ient ons likely	iv. Sensorized, continuous monitoring equipment is in place to determine the state of equipment and reliably detect incipient malfunctions likely to cause ignition, with the ability to de-activate electric lines and equipment exhibiting such failure
Current Year		0)	0
by Start of 2023		0					0
D.I.d How granula	r is	s the invent	ory?				
	i	i. There is no inv	entory	ii. At the s	pan level	iii. A	t the asset level
Current Year		0	ě	C			
by Start of 2023		0	•	C		,	
D.II Asset in Capability 17	7		J	ections [°]	?		
		i. Less frequen regulations rec		ii. Consis minimum r require	egulatory	regula witl	Above minimum tory requirements, n more frequent ions for highest risk equipment
Current Year		0	•			•	0
by Start of 2023		0		C		•	
D.II.b How are pati	rol	inspection	s schedi	uled?			

D.I.b How frequently is the condition assessment updated?

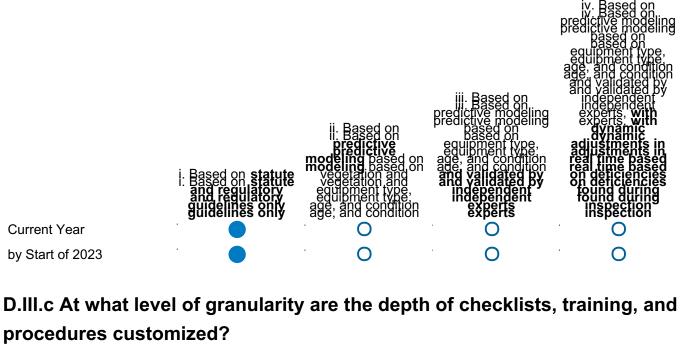
iv. Risk,
independently

Current Year by Start of 2023	i. Based on annual or periodic schedules i. Based on annual or periodic schedules	ii. Based on up-to- date static maps of equipment types iiaBdsæd/ivonupeto- date static maps of equipment types and environment	predictive niio Resingasf edetprneinted large probate titic time risk cance the ling tition equipment failure probability and risk causing gnition	predictive in locating in the preparation in the property falls the provided bility predictive causishing of equilibrate probability and risk causing ignition
D.II.c What are the	inputs to sche	eduling patrol i	inspections?	
	i. At least annually updated or verified static maps of equipment and environment	ii. Predictive modeling of equipment failure probability and risk	iii. Predictive modeling supplemented with continuous monitoring by sensors	iv. Outdated static maps
Current Year	•	. 0	0	0
by Start of 2023	•	. 0	0	. 0
D.II.d How frequen	t are detailed i	ii. Consis	regul stent with wi	Above minimum latory requirements, ith more frequent ctions for highest risk
	regulations requ			equipment
Current Year				
by Start of 2023	. 0)	
D.II.e How are deta	i. Based on annual or periodic schedules	ii. Based on up-to- date static maps of equipment types and environment	iii. Risk, as determined by predictive modeling of equipment failure probability and risk causing ignition	iv. Risk, independently determined by predictive modeling of equipment failure probability and risk causing ignition
Current Year	•	. 0	0	0
by Start of 2023	0		0	0
D.II.f What are the	inputs to sche	duling detailed	d inspections?	?
	i. At least annually updated or verified static maps of equipment and environment	ii. Predictive modeling of equipment failure probability and risk	modeling supplemented with continuous monitoring by sensors	iv. Outdated static maps
Current Year	•	0	0	0
by Start of 2023		0	0	0

D.II.g How frequent are your other inspections?

	i. Less frequent t regulations requi			stent with regulatory ements	regula wit	Above minimum atory requirements, h more frequent tions for highest risk equipment
Current Year					•	0
by Start of 2023						0
D.II.h How are other	er inspections	sche	duled?			
	i. Based on annual or periodic schedules	date s	ed on up-to- static maps ipment types environment	iii. Risk, a determined predictiv modeling equipment fa probability ar causing ign	d by re of ailure ad risk	iv. Risk, independently determined by predictive modeling of equipment failure probability and risk causing ignition
Current Year			0	0		0
by Start of 2023	0	•		. 0		0
D.II.i What are the i	i. At least annually updated or verified static maps of equipment and environment	ii. P mo equip	g other in Predictive Ideling of ment failure Doublity and risk	iii. Predict modeling supplement with conting monitoring sensors	ive g i ted uous g by	iv. Outdated static maps
Current Year	•		0	. 0		. 0
by Start of 2023		•	0	. 0		0
D.III Asset in Capability 18 D.III.a What items a checklists?	}				ures	and
	i. Patrol, detailed enhanced, and of inspection procedured checklists do not in all items required statute and regulat	her es and clude d by	enhanced inspection pro checklists items requir	detailed, , and other ocedures and include all ed by statute ulations	enh inspec checkli requi regula lines typica	Patrol, detailed, anced, and other tion procedures and ists include all items red by statute and tions, and includes and equipment ally responsible for nitions and near misses
Current Year	. 0					0
by Start of 2023)	•	

D.III.b How are procedures and checklists determined?



	i. Across the service territory	ii. Across a region	iii. At the circuit level	iv. At the span level	v. At the asset level
Current Year		. 0	. 0	. 0	. 0
by Start of 2023		. 0	. 0	. 0	. 0

D.IV Asset maintenance and repair

Capability 19

D.IV.a What level are electrical lines and equipment maintained at?

	i. Electric lines and equipment not consistently maintained at required condition over multiple circuits	ii. Electrical lines and equipment maintained as required by regulation	equipment maintained as required by regulation, and additional maintenance done in areas of grid at highest wildfire risk based on detailed risk mapping
Current Year		. 0	0
by Start of 2023	. 0	•	0

D.IV.b How are service intervals set?

	i. Based on wildfire risk in relevant area	ii. Based on wildfire risk in relevant circuit	wildfire risk in relevant circuit, as well as real-time monitoring from sensors	iv. None of the above
Current Year		•	0	. 0
by Start of 2023	. 0		0	0

D.IV.c What do maintenance and repair procedures take into account?

	i. Wildfire risk	ii. Wildfire risk, performance history, and past operating conditions	iii. None of the above
Current Year		. 0	· O
by Start of 2023	. 0	•	0
D.V QA/QC f Capability 20 D.V.a How is contr			
		iii. Through established demonstra functioning a process to ma and confirm completed subcontract	and iv. Through an established and demonstrably anage functioning audit work process to manage by and confirm work completed by

	i. Lack of controls for auditing work completed, including inspections, for employees or	ii. Through an established and functioning audit process to manage and confirm work completed by	functioning audit process to manage and confirm work completed by subcontractors, where contractor activity is subject to semi- automated audits using technologies capable of sampling the contractor's work (e.g., LiDAR scans, photographic	established and demonstrably functioning audit process to manage and confirm work completed by subcontractors, where contractor activity is subject to automated audits using technologies capable of sampling the contractor's work (e.g., LiDAR scans, photographic
	subcontractors	subcontractors	evidence)	evidence)
Current Year	. 0	•		0
by Start of 2023	. 0	0		. 0

D.V.b Do contractors follow the same processes and standards as utility's own employees?

	i. No	ii. Yes
Current Year	0	
by Start of 2023	0	

D.V.c How frequently is QA/QC information used to identify deficiencies in quality of work performance and inspections performance?

	iii. On an ad							
	i. Never	ii.	Sporadically	hoc basis	i	iv. Regularly	,	v. Real-time
Current Year	0		0	. 0				0
by Start of 2023	0		0	. 0			٠	0

D.V.d How is work and inspections that do not meet utility-prescribed standards remediated?

	i. Lack of effective remediation for ineffective inspections or low- quality work	ii. QA/QC information is used to identify systemic deficiencies in quality of work and inspections	iii. QA/QC information is used to identify systemic deficiencies in quality of work and inspections and recommend training based on weaknesses	iv. QA/QC information is used to identify systemic deficiencies in quality of work and inspections, grade individuals, and recommend specific pre-made and tested training based on weaknesses
Current Year	. 0	•	•	. 0
by Start of 2023	. 0	0		0

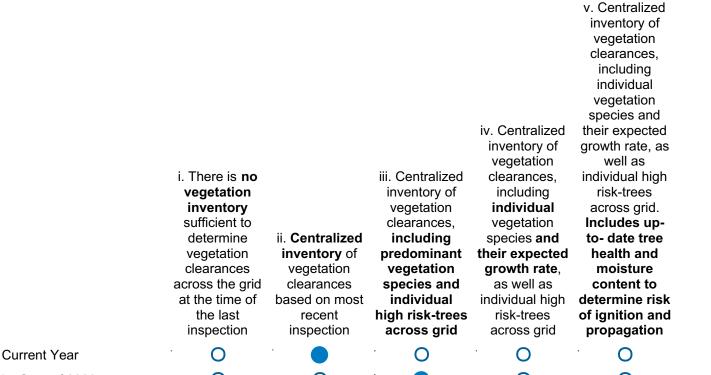
D.V.e Are workforce management software tools used to manage and confirm work completed by subcontractors?

	i. No		ii. Yes
Current Year	0		
by Start of 2023	0	•	

E. Vegetation management and inspections

E.I Vegetation inventory and condition assessments Capability 21

E.I.a What information is captured in the inventory?



E.I.b How frequent	tly is the inv	entory up	dated?		
	i. Never	ii. Annually	iii. Within 1 month of collection	iv. Within 1 week of collection	v. Within 1 day of collection
Current Year	. 0		. 0	0	•
by Start of 2023	0	0		0	0
E.I.c Are inspectio	ns independ	lently ver	ified by third	l party exp	erts?
		i. No		ii. Yes	3
Current Year	•	0			
by Start of 2023		0			
E.I.d How granular	is the inven	itory?			
	i. Regional	ii. Circu	it-based iii. S	pan-based	iv. Asset-based
Current Year	•	. () ·	0	
by Start of 2023	. 0)	0	
E.II Vegetati Capability 22 E.II.a How frequen	2			ctions?	
	i. Less freque regulations re		ii. Consistent wit minimum regulato requirements	regulate th with	pove minimum ory requirements, more frequent ons for highest risk areas
Current Year				•	0
by Start of 2023			0	•	
E.II.b How are veg	etation inspe	ections so	cheduled?		
		i. Based on annual or periodic schedules	ii. Based on up-to- date static maps of predominant vegetation species and environment	iii. Risk, as determined by predictive modeling of vegetation growth and growing conditions	iv. Need, as independently determined by predictive modeling of vegetation growth and growing conditions
Current Year			. 0	0	. 0
by Start of 2023			0	0	0

by Start of 2023

E.II.c What are the inputs to scheduling vegetation inspections?

	i. At least annually- updated static maps of vegetation and environment	ii. Up to date, static maps of vegetation and environment, as well as data on annual growing conditions	iii. Predictive modeling of vegetation growth	iv. Predictive modeling of vegetation growth supplemented with continuous monitoring by sensors	vegetation growth supplemented with continuous monitoring by sensors and considering tree health and other vegetation risk factors for more frequent inspections in less healthy areas
Current Year		. 0	. 0	. 0	. 0
by Start of 2023		. 0	. 0	. 0	. 0

v. Predictive modeling of

iii. Patrol, detailed,

iv. Based on predictive modeling based on vegetation and equipment type,

independent

experts, with

dynamic

adjustments in

found during

inspection

E.III Vegetation inspection effectiveness

Capability 23

E.III.a What items are captured within inspection procedures and checklists?

enhanced, and other inspection procedures and checklists include all items i. Patrol, detailed, ii. Patrol, detailed, required by statute and enhanced, and other enhanced, and other regulations, and includes inspection procedures and inspection procedures and vegetation types checklists do not include checklists include all typically responsible for all items required by items required by statute ignitions and near statute and regulations and regulations misses **Current Year** by Start of 2023

E.III.b How are procedures and checklists determined?

age, and condition iii. Based on and validated by predictive modeling based on ii. Based on vegetation and predictive equipment type, modeling based on age, and condition real time based i. Based on statute vegetation and and validated by on deficiencies and regulatory equipment type, independent guidelines only age, and condition experts

Current Year

E.IV Vegetation grow-in mitigation

Capability 24

E.IV.a How does utility clearance around lines and equipment perform relative to expected standards?

	i. Utility often fails to maintain minimum statutory and regulatory clearances around all lines and equipment	ii. Utility meet minimum statutory and regulatory clearances around all lines and equipment	iii. Utility exceeds minimum statutory and regulatory clearances around all lines and equipment
Current Year	0	•	0
by Start of 2023	. 0		0

E.IV.b Does utility meet or exceed minimum statutory or regulatory clearances during all seasons?

	i. No	ii. Yes
Current Year	0	
by Start of 2023	0	

E.IV.c What modeling is used to guide clearances around lines and equipment?

	ii. Ignition and propagation i. Ignition risk modeling risk modeling			iii. None of the above
Current Year	. 0			
by Start of 2023	. 0	. 0		

E.IV.d What biological modeling is used to guide clearances around lines and equipment?

i. Species growth rates and species limb failure rates ii. Species growth rates and species limb failure rates, cross referenced with local climatological conditions

Current Year by Start of 2023	i. Species gro		ii. Species of and species li rates, cross re with local clim	imb failure eferenced	•	
E.IV.e Are comm	nunity organi	zations e	ngaged in	setting lo	cal clearar	ıces
and protocols?						
		i. No			ii. Yes	
Current Year					0	
by Start of 2023					O	
E.IV.f Does the ເ	utility remove	e vegetation	on waste	along its r	ight of way	,
across the entire	grid?					
		i. No			ii. Yes	
Current Year			п		0	
by Start of 2023	•				0	
E.IV.g How long	after cutting	vegetatio	on does th	ne utility re	emove	
vegetation waste	_	_		•		
				ii. Within 1 weel		
Current Year	i. Not at all	. V	veek	less	day	/
by Start of 2023	. 0			0	. 0)
by Gtart 61 2020					O	
E.IV.h Does the	utility work w	vith local	landowne	ers to prov	ide a cost-	
effective use for	cutting vege	tation?				
		i. No			ii. Yes	
Current Year					0	
by Start of 2023	•		•		0	
E.IV.i Does the ι	utility work w	ith partne	rs to iden	ntify new c	ost-effectiv	⁄e
uses for vegetati	-	=		_		
emissions of veg	_				-	
		i. No			ii. Yes	
Current Year		0				
by Start of 2023	•	0				
E.V Vegeta	tion fall-i	n mitic	nation			
Capability 2			jation			
Sapability I						

E.V.a Does the utility have a process for treating vegetation outside of

E.V.b How is potential vegetation that may pose a threat identified?

iv. Based on the probability and consequences of impact on electric lines and equipment as determined by risk modeling, as well as regular and accurate systematic inspections for iii. Based on the high-risk trees probability and outside the right ii. Based on the consequences of of way or i. No specific height of trees impact on electric environmental process in place to with potential to lines and and climatological systematically make contact with equipment as conditions identify trees likely electric lines and determined by contributing to to pose a risk increased risk equipment risk modeling 0 O 0 **Current Year** 0 0 O by Start of 2023

E.V.c Is vegetation removed with cooperation from the community?

	i. No	ii. Yes
Current Year	0	
by Start of 2023	0	

E.V.d Does the utility remove vegetation waste outside its right of way across the entire grid?

	i. No		ii. Yes
Current Year		•	0
by Start of 2023		•	0

E.V.e How long after cutting vegetation does the utility remove vegetation waste outside its right of way?

Current Year		Not at all Not at all	ii. Lor <mark>weel</mark> than 1 w <mark>ee</mark> k	iii. Withil ^{eas} week or less	iv. On ∯A¥ same day
by Start of 2023		0		. 0	0
E.V.f Does the u	_			ers to provide	a cost-
chective ase for	Catting		. No	ii N	⁄es
Current Year					
by Start of 2023					
E.V.g Does the uses for vegetate	ion, tal	king into	consideration	-	
		i	. No	ii. N	es es
Current Year			0		
by Start of 2023	•		0		
E.VI QA/Q(Capability		veget	ation main	itenance	
E.VI.a How is co	ontract	or and er	nployee activit	y audited?	
				iii. Through an established and demonstrably functioning audit process to manage and confirm work completed by subcontractors, where contractor activity is subject to semi-	iv. Through an established and demonstrably functioning audit process to manage and confirm work completed by subcontractors, where contractor activity is subject to automated audits

using using i. Lack of controls ii. Through an technologies technologies capable of for auditing work established and capable of completed, sampling the sampling the functioning audit including process to manage contractor's work contractor's work inspections, for and confirm work (e.g., LiDAR scans, (e.g., LiDAR scans, employees or completed by photographic photographic subcontractors subcontractors evidence) evidence) **Current Year** O O by Start of 2023

E.VI.b Do contractors follow the same processes and standards as utility's own employees?

i. No ii. Yes

Current Year		i. W o	ii.	Yes
by Start of 2023	•	0		
	quently is QA/Q		_	
in quality of wo	rk performance	•	n an ad) f
	i. Never	ii. Sporadically hoo	basis iv. Regula	rly v. Real-time
Current Year	. 0	0	0	. 0
by Start of 2023	. 0	0	0	. 0
standards reme	ediated?			iv. QA/QC
	i. Lack of effectiv remediation for ineffective inspections or low quality work	systemic deficiencies in	iii. QA/QC information is used to identify systemic deficiencies in quality of work and inspections, and recommend training based on weaknesses	information is used to identify systemic deficiencies in quality of work and inspections, grade individuals, and recommend specific pre-made and tested training based on weaknesses
Current Year	· O	·	0	·
by Start of 2023	. 0		0	0

E.VI.e Are workforce management software tools used to manage and confirm work completed by subcontractors?

	i. No		
Current Year		*	0
by Start of 2023	0		

F. Grid operations and protocols

F.I Protective equipment and device settings Capability 27

F.I.a How are grid elements adjusted during high threat weather conditions?

Current Year by Start of 2023	adjustable equipment in response to high i. Willillifyreldersatot makeodidioges to adjustable equipment in response to high wildfire threat	sensitivity of risk reduction elements during high threat weather ii. Utdinditioneases sensitivity of risk reduction elements during high threat weather	during high threat weather iii.cdtibitionsreasses serestitions of each reductions sesments during high threat weather conditions and monitors near	icoldittyinischesseels senschritischer risk rechaatppiregeaments duringitrigentbærat weistlesr conditions based on risk mapping and monitors near
F.I.b Is there ar	n automated proc	ess for adjusti	na sensitivity	of arid
	valuating effectiv	_	g ==,	01 g.1.a.
	rification on level of aut		er to the 'level of sy	stematization and
automation' in Table	2 of the Maturity Mode	I. (i) in this case co	rresponds to level	O; (ii) corresponds
to level 1 or 2; (iii) co	orresponds to level 3 or	4		
		ii. Partially	automated iii.	Fully automated
	i. No automated pr		cess	process
Current Year	. 0		•	0
by Start of 2023	. 0			O
	predetermined predictivity of grid elem		by fire conditi	ons for
•		No	ii. `	res
Current Year)		
by Start of 2023		9		
F.II Incorp Capability	orating igni 28	tion risk fa	actors in g	grid control
	utility have a clea			•
	i.	No	ii. `	res es
Current Year		O		
by Start of 2023		D		
	utility have systery including curre	-	_	
	i.	No	ii. `	⁄es
Current Year		0		
by Start of 2023)		
F.II.c Does the	utility use predic	tive modeling	to estimate the	e expected

life and make equipment maintenance, rebuild, or replacement decisions based on grid operating history, and is that model reviewed?

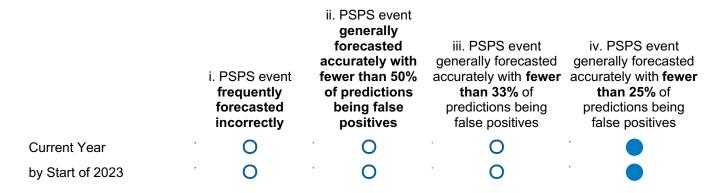
i. Modeling is not used	ii. Modeling is used, but not evaluated by external experts	iii. Modeling is used, and the model is evaluated by external experts and verified by historical data
	. 0	0
•	. 0	0
	i. Modeling is not used	not evaluated by external

F.II.d When does the utility operate the grid above rated voltage and current load?

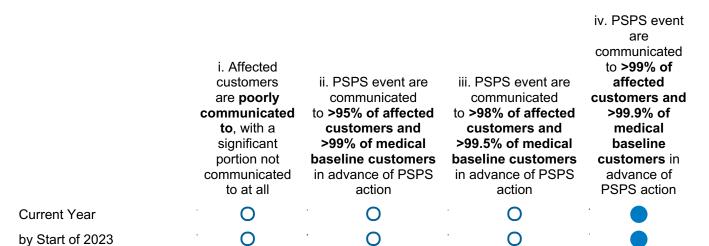
	ii. Only in conditions that are unlikely to cause				
	 During any conditions 	wildfire		iii. Never	
Current Year	•	. 0	•	0	
by Start of 2023		. 0		0	

F.III PSPS op. model and consequence mitigation Capability 29

F.III.a How effective is PSPS event forecasting?



F.III.b What share of customers are communicated to regarding forecasted PSPS events?



Current Year by Start of 2023	i. Affected customers are poorly communicated to, with a significant portion not	ii. PSPS events of a customers >99% of mobaseline customers of a customers of a customers >99% of mobaseline customers of a cu	to.>99 ent are to.>99 ated co- ffected to >98 s and cus edical >99.5 tomers basel	SPS event are co. 9% of affected of process	customers and ine customers.
F.III.c During PSP	S events, wha	t percent	of custome	rs complair	า?
	i. 1% or mor	e	ii. Less than 1%	ili. Les	s than 0.5%
Current Year	0		0	i	
by Start of 2023			0		
F.III.d During PSI	PS events, doe	s the utili	ty's websit	e go down?	,
	i.	. No		ii. Yes	
Current Year				0	
by Start of 2023	•			0	
F.III.e During PSI	PS events, wha	at is the av	verage dow	ntime per c	ustomer?
	i. More than 1 ii hour	. Less than 1 hour	iii. Less than 0.5 hours	iv. Less than 0.25 hours	v. Less than 0.1 hours
Current Year	. 0	0	. 0	0	
by Start of 2023	. 0	0	. 0	0	
F.III.f Are specific of the power shut batteries, etc.)?	-				•
	i.	. No		ii. Yes	
Current Year	•	0			
by Start of 2023	•	0	•		
F IV Protoco	ols for PSF	PS invit	ation		

F.IV.a Does the utility have explicit thresholds for activating a PSPS?

Capability 30

iii. Utility has explicit policies and explanation for the thresholds above which PSPS is activated, but maintains grid in sufficiently low risk condition to not require any PSPS activity, though may de-

iv. PSPS event are

	i. Utility has no clearly explained threshold for PSPS activation	policies and explanation for the thresholds above which PSPS is activated as a measure of last resort	0 , ,
Current Year		•	risk condition to not require any PSPS
by Start of 2023			activity, though may de- energize specific
F.IV.b Which of th	ne following does th	e utility take into ac	count when
making PSPS ded	cisions? Select all th	nat apply	
	i. SME opinior	recommend should be ad	y automated system which ds circuits for which PSPS ctivated and is validated by SMEs
Current Year			
by Start of 2023			
F.IV.c Under which	ch circumstances de	oes the utility de-er	nergize circuits?
Select all that app		•	J
	damaged pres	iii. When equ When circuit has come ents a safety contact with to suppression ner personnel ignition ri	into foreign sing iv. Additional
Current Year by Start of 2023			
F.IV.d Given the c	ondition of the grid	, with what probabi	lity does the utility
expect any large	scale PSPS events a	affecting more than	10,000 people to
occur in the comi		•	
	urrent Year' response option	on, please take "the comir	ng year" as 2021. For the
	nse option, please take "th	-	
	i. Less than 5 % - Grid is i low risk condition that PSF not be required, and the which may require de- ener sufficient redundancy that of to customers will not be	PS events will conly circuits rgization have ii. Greater energy supply paired with ri	than 5% - Grid condition sk indicates that PSPS may ary in 2021 in some areas
Current Year	0	•	
by Start of 2023			
EV Protoco	do for DCDC r	o oporalzatio	
Capability 3	ols for PSPS re	e-energizatio	l I

ëin ektigitzeh speccifiliocit

pirlicuiets amberx pletre estition

ii. Utility has explicit

F.V.a Is there a process for inspecting de-energized sections of the grid

prior to re- ener	rgization?		
	i. Inadequate process for inspecting de- energized sections of the grid prior to re- energization	ii. Existing process for accurately inspecting deenergized sections of the grid prior to reenergization	iii. Existing process for accurately inspecting de- energized sections of the grid prior to re- energization, augmented with sensors and aerial tools
Current Year	. 0		0
by Start of 2023	. 0		0
F.V.b How auto	mated is the process	for inspecting de-e	nergized sections
of the grid prior	r to re-energization?		
Clarification: For exp	olanation on level of automatic	on please refer to the 'lev	el of systematization and
automation' in Table	2 of the Maturity Model. (i) in	this case corresponds to	level 0; (ii) corresponds
to level 1 or 2; (iii) co	orresponds to level 3; and (iv)	corresponds to level 4	
		. Partially iii. Most nated (<50%) automated (
Current Year		0 0	0
by Start of 2023	. 0	• 0	. 0
	he average amount of a PSPS once weather reshold?	_	_
	i. Longer than ii. Within 24 hours hours		Within 12 v. Within 8 hours hours
Current Year	. 0 . 0	. 0	. 0
by Start of 2023	. O . O	. 0	• 0
	el of understanding of e utility have across th	ne grid? ii. Some probability	iii. Utility has accurate quantitative understanding of ignition risk following re- energization, by asset, validated by historical data
	of after event ignitions	estimates exist	and near misses
Current Year	0	O	
by Start of 2023	O	O	
	_	_	

F.VI Ignition prevention and suppression

Capability 32

suppressing igniti	ons?					
		erning what les are in	ii. Utilities have exp policies about the r crews at the site of ig	ole of	policies ab crews, contra subcontra	s have explicit cout the role of including actors and actors, at the of ignition
Current Year)	0	,		
by Start of 2023		J	O			
F.VI.b What training	ng and too	ols are pro	ovided to work	ers ir	n the fie	ld?
	i. Crews are untrained	ii. Training a communicat tools are provided to immediate report ignitions cauby workers of mmediate vice of workers	ions suppress small ignitions caused by workers or in used immediate or in vicinity of workers are	iv. All option In a comm tools with recentrais	criteria in n (iii) met; addition, nunication s function nout cell ption and ining by pression ssionals is ovided	v. All criteria in option (iv) met and apply to contractors as well as utility workers
Current Year	0	0	. 0		0	
by Start of 2023	. 0	0	0		0	
F.VI.c In the events Cal/OSHA reported Clarification: For this year 2020. For three years from injuries or fatalities could	d injuries of ar, please idea now, pleas	or fatalitientify whether se specify wh	es occurred in any major injuries	in the	e last ye	ear?
		i. No			ii. Yes	
Current Year					0	
by Start of 2023	•				0	
F.VI.d Does the ut and outside the ut suppress ignitions Clarification: An example management company v	ility indus ? e of workers of	try on bes	st practices to	minir	mize, re	port and
		i. No			ii. Yes	
Current Year					0	
by Start of 2023					0	

G. Data governance

G.I Data collection and curation

Capability 33

G.I.a Does the utility have a centralized database of situational, operational, and risk data?

<u>Clarification</u>: Question is asking whether utility centralizes most of its situational, operational, and risk data in a single database

	i. No		ii. Yes
Current Year		•	0
by Start of 2023	0		

G.l.b Is the utility able to use advanced analytics on its centralized database of situational, operational, and risk data to make operational and investment decisions?

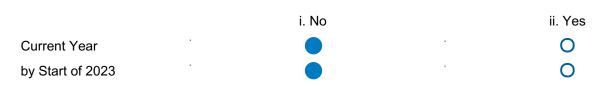
<u>Clarification</u>: In this case, advanced analytics refers to analysis integrating different types of data from this centralized database in a sufficiently reliable way to create a detailed, quantitative and holistic picture of tradeoffs to be weighed in operational or investment decisions

	i. No	ii. Yes, but only for short term decision making	iii. Yes, for both short term and long-term decision making
Current Year		. O	0
by Start of 2023	0	. 0	

G.l.c Does the utility collect data from all sensored portions of electric lines, equipment, weather stations, etc.?

		i. No		ii. Yes
Current Year		0	•	
by Start of 2023	•	0		

G.I.d Is the utility's database of situational, operational, and risk data able to ingest and share data using real-time API protocols with a wide variety of stakeholders?



G.I.e Does the utility identify highest priority additional data sources to improve decision making?

				incorporate these into centralized database of situational, operational
	i. No		ii. Yes	and risk data
Current Year	0	-		•
by Start of 2023	0		0	

G.I.f Does the utility share best practices for database management and use with other utilities in California and beyond?

		i. No	ii. Yes		. Yes, with specific ocesses to do so i place	
Current Year	a.		0	i .	0	
by Start of 2023		0			0	

G.II Data transparency and analytics

Capability 34

G.II.a Is there a single document cataloguing all fire-related data and algorithms, analyses, and data processes?

	i. No		ii. Yes
Current Year		•	0
by Start of 2023	0		

G.II.b Is there an explanation of the sources, cleaning processes, and assumptions made in the single document catalog?

	i. No		ii. Yes
Current Year		•	0
by Start of 2023	0		

G.II.c Are all analyses, algorithms, and data processing explained and documented? Is there a system for sharing data in real time across multiple levels of permissions?

> iv. Analyses, algorithms, and data processing are documented and explained, including algorithms and sensitivities for

iii. Analyses,

	data processing are	ii. Analyses, algorithms, data	and data process	sing eac kn typæef
	not documented	processing are documer	nted and explain	ned data pdatæssing are documented
Current Year	O		. 0	and explained,
by Start of 2023	i. An aly ses, algorithms, and	· O	iii. An <mark>al</mark> yse algorithms,	
G.II.d Is there a sy	stem for sha	aring data in real	time across	multiple levels
of permissions?				
	i. No system ca sharing data in i across multiple permissio	real time regulator perm levels of b.) first re	capable of sl s at least two rmissions, per a.) utility- nissions, and per sponder re	System is capable of naring across at least three levels of missions, including a.) utility- regulator permissions, b.) first sponder permissions, l.c.) public data sharing
Current Year	. 0			
by Start of 2023	. 0			
<u>Clarification</u> : Question is decision making around disclosed		_		
	i. No	ii. Yes, disclosed to regulators and other relevant stakeholders upon request	iii. Yes, disclose publicly in WMF upon request	
Current Year		. 0		. 0
by Start of 2023	. 0	. 0		. 0
G.III Near-mi Capability 35 G.III.a Does the uti	5	J	ıll near miss	es with wildfire
ignition potential?				
Clarification: Recall that	near miss is defi	ned as an event with s	ignificant probal	oility of ignition,

<u>Clarification</u>: Recall that near miss is defined as an event with significant probability of ignition, including wires down, contacts with objects, line slap, events with evidence of significant heat generation, and other events that cause sparking or have the potential to cause ignition.

		i. No	ii. Yes
Current Year	•	0	
by Start of 2023	•	0	

	_	otured, is the utility a	
-		pased on event chara	cteristics, fuel
loads, and mois	ture ?		
	i. No		ii. Yes
Current Year	0	•	
by Start of 2023	. 0		
G.III.c Does the	utility capture data	related to the specifi	c mode of failure
when capturing	near- miss data?		
	i. No		ii. Yes
Current Year	. 0	•	
by Start of 2023	0		
G.III.d Is the util	lity able to predict th	ne probability of a ne	ar miss in
	-	of event characteristi	
	i. No		ii. Yes
Current Year	•	•	0
by Start of 2023	0		
G.III.e Does the	utility use data fron	n near misses to cha	nge grid operation
protocols in rea	I time?		
	i. No		ii. Yes
Current Year			0
by Start of 2023	•		0
G.IV Data	sharing with t	he research co	mmunity
Capability	_		g
G IV a Does the	utility make disclos	ures and share data?	>
	_	isclosures to the CPUC and	
Clarification. In this ca	ase, disclosures refer to d	isclosures to the Or OO and	To the public
	i. Utility fails to make disclosures	ii. Utility makes required disclosures, but does not share data beyond what is required	iii. Utility makes required disclosures and shares data beyond what is required
Current Year	0	•	0
by Start of 2023	. 0	. 0	
G.IV.b Does the	utility in engage in	research?	

<u>Clarification</u>: Here, 'research' broadly refers to collaborative research (e.g. with other

available outside parties	s (such as academics	s, other utilities, th	ne government or the	e public).
	i. Utility does not participate in collaborative research	ii. Utility participates in collaborative research	iii. Utility funds and participates in both independent and collaborative research	iv. Utility funds and participates in both independent and collaborative research, and ensures that research, where possible, is abstracted and applied to other utilities
Current Year		0		•
by Start of 2023		0		•
G.IV.c What subje	ects does utility i. Utility ignited wildf	ii. Utilit wildfires	ty ignited s and risk	None of the above
Current Year	· O		•	0
by Start of 2023	. 0			0
G.IV.d Does the un		-	based on lates	t independent
<u>Clarification</u> : Promoting			os for ovemble wri	ting and publishy
	•		•	
releasing a report or def			etnod of tool was pil	otea, including
which techniques were	more or less effective	9		
	i. N	lo	ii. Y	es es
Current Year)	·	
by Start of 2023	·		·	
H. Resou	rce alloc	ation n	nethodo	logy

utilities, academics, or the government) or to independent research where the findings are made

H.I Scenario analysis across different risk levels Capability 37

H.l.a For what risk scenarios is the utility able to provide projected cost and total risk reduction potential?

ii. Utility provides an accurate high- risk reduction and low risk reduction scenario, and iii. Utility provides an accurate high- risk reduction and low risk reduction scenario, in addition to their proposed scenario, and the

	costs across different levels of risk scenarios	the projected cost and total risk reduction potential	projected cost and total ill. Utility provides an risk reduction potential accurate high-risk
Current Year	•	ii. Utility provides an	reduction and low risk
by Start of 2023	i. Utility does not project proposed initiatives or	accurate high- risk reduction and low risk reduction scenario and	reduction scenario, in addition to their proposed scenario and the
H.I.b For what le	vel of granularity is	the utility able to pr	ovide projections
for each scenario	?		
	i. Territory- level or greater ii. Region	level iii. Circuit level iv. S	span level v. Asset level
Current Year	. •	. 0	0 . 0
by Start of 2023	. 0 . 0		0 0
H.I.c Does the ut	ility include a long t	erm (e.g., 6-10 year)) risk estimate
taking into accou	ınt macro factors (cl	imate change, etc.)	as well as
planned risk redu	uction initiatives in i	ts scenarios?	
	i. No		ii. Yes
Current Year		•	
by Start of 2023	0		

H.I.d Does the utility provide an estimate of impact on reliability factors in its scenarios?

<u>Clarification</u>: Reliability factors here refer to factors impacting reliability of service to customers

	i. No	ii. Yes
Current Year		0
by Start of 2023	0	

H.II Presentation of relative risk spend efficiency for portfolio of initiatives

Capability 38

H.II.a Does the utility present accurate qualitative rankings for its initiatives by risk spend efficiency?

		i. No	ii. Yes
Current Year		0	
by Start of 2023	•	0	

H.II.b What initiatives are captured in the ranking of risk spend efficiency?

	initiatives i. Common	initiatives	emerging initiatives iii. All commercial	above
Current Year	commercial	ii. All commercial	initiati @ s and	iv. None of the
by Start of 2023	initiatives	initiatives	emerging initiatives	above
H.II.c Does the utili		-		
assumptions (e.g.			•	"
	i.	No	ii. Ye	s
Current Year			. 0	
by Start of 2023	•	0	•	

H.II.d Does the utility provide an explanation of their investment in each particular initiative?

Clarification: Reliability factors here refer to factors impacting reliability of service to customers

		i. No	ii. Yes, including the expected overall reduction in risk	iii. Yes, including the expected overall reduction in risk and estimates of impact on reliability factors
Current Year	п	0		•
by Start of 2023		0	0	

H.II.e At what level of granularity is the utility able to provide risk efficiency figures?

: Tamitam.

	level or greater	ii. Region level	iii. Circuit level	iv. Span level	v. Asset level
Current Year	. 0	. 0		0	. 0
by Start of 2023	. 0	. 0		. 0	. 0

H.III Process for determining risk spend efficiency of vegetation management initiatives

Capability 39

H.III.a How accurate of a risk spend efficiency calculation can the utility provide?

i. Utility has no clear
understanding of
the relative risk
spend efficiency of
various clearances
and types of
vegetation
management
initiatives

ii. Utility has **an** accurate relative understanding of the cost and effectiveness to produce a reliable risk spend produce a reliable efficiency estimate

iii. Utility has accurate quantitative understanding of cost and effectiveness to risk spend

iv. Utility has accurate quantitative understanding of cost, including sensitivities and effectiveness to produce a reliable risk spend efficiency estimate efficiency estimate

Current Year	i. Utilit ⊘ nas no				v. Utfliry has
by Start of 2023	clear understanding of the relative risk	ii. Utility has accurate rela	tive accur	ate c	accurate quantitative derstanding of
H.III.b At what le	vel can estimate	es be prepa	ared?		
	i. Less granular than regional, or not at all ii	i. Regional	iii. Circuit- based iv.	Span-based	v. Asset-based
Current Year	. 0	0		0	0
by Start of 2023	. 0	0		0	0
H.III.c How frequ	ently are estima	ates update	ed?		
	i. Never	ii. Les	ss frequently than annually		ally or more quently
Current Year			0		
by Start of 2023	. 0		0	•	
H.III.d What vege within its evaluat	_	ment initiat	ives does th	ne utility in	nclude
Current Year	i. None	ii. Some	iii. Most	iv. All	v. All, supported by independent testing
by Start of 2023	. 0	0	0		0
H.III.e Can the ut of various initiati	-	sk reductio	n synergies	from con	nbination
	i. !	No		ii. Yes	
Current Year by Start of 2023				0	
H.IV Proces	s for deter	mining	risk spe	end effi	ciency

H.IV Process for determining risk spend efficiency of system hardening initiatives

Capability 40

H.IV.a How accurate of a risk spend efficiency calculation can the utility provide?

iv. Utility has ii. Utility has an iii. Utility has accurate accurate relative accurate quantitative understanding of understanding of quantitative i. Utility has **no** the cost and understanding of cost, including clear effectiveness sensitivities and cost and to produce a understanding of effectiveness to effectiveness to

	the relative risk spend efficiency of hardening initiative	accu ratimetative	ii risktisspends effici ancynasti mate	producting diable risk copered efficiency testing of
Current Year	i. Utility has no	understanding of the cost and	quantitative understanding of	understanding of cost, including
by Start of 2023	clear understanding of	effectiveness to produce a	cost and effectiveness to	sensitivities and effectiveness to
H.IV.b At what leve	el can estima	tes be prepare	d?	
	i. Less granular than regional, or not at all		ircuit- ised iv. Span-bas	ed v. Asset-based
Current Year	. 0	0	• •	. 0
by Start of 2023	. 0	0	. 0	. 0
H.IV.c How frequen	ntly are estim	ates updated?	,	
	i. Never		quently than iii. <i>I</i> nually	Annually or more frequently
Current Year			O .	
by Start of 2023			0	
efficiency analysis	c	ommercially comm vailable grid availa hardening hard	Most iv. All nercially commercial ble grid available gr lening hardening atives initiatives	id well as those initiatives that
Current Year	. 0	•	0 0	. 0
by Start of 2023	. 0	0 . (0	. 0
H.IV.e Can the utili		sk reduction e	ffects from the	combination
	i.	No	ii. Y	es
Current Year)
by Start of 2023		0		
H.V Portfolio Capability 41	-wide ini	tiative allo	cation me	thodology
H.V.a To what exterisk-spend efficient		tility allocate c	apital to initiati	ves based on

iii. Accurate RSE

Current Year	i. Utility does not base capital all utility does hist base capital allocation on RSE	ii. Utility considers estimates of RSE ii whili yallogaiders estimates of RSE when allocating capital	estimates for all illitiatives are used to estimation for all to estimation for all initiatives are illised to estimation as a construction of the estimation of the estimatio	estimates for all initiatives are used to deligation according to the control of
by Start of 2023	0		0	0

H.V.b What information does the utility take into account when generating **RSE** estimates?

	i. Average estimate of RSE by initiative category	ii. Specific information by initiative, including state of equipment and location where initiative will be implemented	iii. Specific information by initiative at the asset level, including state of specific assets and location where initiative will be implemented
Current Year	•	. 0	0
by Start of 2023			0

H.V.c How does the utility verify RSE estimates?

	nt experts or ities in CA
Current Year O	C
by Start of 2023	O

H.V.d Does the utility take into consideration impact on safety, reliability, and other priorities when making spending decisions?

	i. No		ii. Yes
Current Year	0	•	
by Start of 2023	0		

H.VI Portfolio-wide innovation in new wildfire initiatives

Capability 42

H.VI.a How does the utility develop and evaluate the efficacy of new wildfire initiatives?

iii. RSE estimates are

Current Year by Start of 2023	i. No program in place i. No pregram in place	ii. Utility uses pilot and measures iidigatyedesipilot agritime as arts direct reduction in ignition events	redu ptions raigatition s সংভাইঘক্তর বাহিত্তা reduc াতis ক ং gnition	eventsesondingear-
H.VI.b How does t	he utility devel	op and evalu	ate the risk spe	end efficiency
of new wildfire ini	tiatives?			
Clarification: TCO is total	al cost of ownership	over the expected	d useful life of an as	set, including
purchase, operation and	l maintenance. In th	nis question, total o	cost of ownership re	efers to the spend
portion of the evaluation	of risk spend efficie	ency, while risk re	duction is evaluated	l separately.
	i. No progr	ram in place	ii. Utility uses tota l	cost of ownership
Current Year			*	0
by Start of 2023				0
H.VI.c At what lev	el of granulari	ty does the ut	ility measure t	he efficacy of
new wildfire initia	tives?		-	-
		ii. Entire		
	i. None	territory iii.	Circuit iv. Spar	n v. Asset
Current Year	0		0	0
by Start of 2023	. 0	O		O
H.VI.d Are the revi	iews of innova	tive initiatives	audited by inc	dependent
parties?				
Clarification: Reviews he	ere refer to findings	evaluating innova	tive initiatives which	n would assist
another utility in making	a decision about w	hether to impleme	nt that initiative and	help them
determine how to do so	effectively. Criteria	might include but	are not limited to th	e following:
technical feasibility, effe	ctiveness, risk sper	nd efficiency, ease	of implementation	and comparison to
alternative options	•	·	•	•
	i. N	lone	ii.	Yes
Current Year				0
by Start of 2023			•	0
H.VI.e Does the ut	ility share the	findings of its	evaluation of	innovative
initiatives with oth	-	•		
	i. N	lone	ii.	Yes
Current Year		O		
by Start of 2023)		

I. Emergency planning and preparedness

I.I Wildfire plan integrated with overall disaster/ emergency plan

Capability 43

I.l.a Is the wildfire plan integrated with overall disaster and emergency plans?

<u>Clarification</u>: If the utility's wildfire mitigation plan is an integrated component of an overall disaster and emergency plan then the overall plan considers at least the compound effects of risks in both directions – for example, the additional risk of fire posed by an earthquake and how to manage any compounding effects

	i. No	ii. Wildfire plan is a component of overall plan	iii. Wildfire plan is an integrated component of overall plan
Current Year	0	. 0	•
by Start of 2023	0	. 0	•

I.l.b Does the utility run drills to audit the viability and execution of its wildfire plans?

		i. No	ii. Yes
Current Year			0
by Start of 2023	4	0	

I.I.c Is the impact of confounding events or multiple simultaneous disasters considered in the planning process?

		i. No		ii. Yes
Current Year	и	0	•	
by Start of 2023	4	0	•	

I.I.d Is the plan integrated with disaster and emergency preparedness plans of other relevant stakeholders (e.g., CAL FIRE, Fire Safe Councils, etc.)?

		i. No	ii. Yes
Current Year	•	0	
by Start of 2023	•	0	

I.I.e Does the utility take a leading role in planning, coordinating, and integrating plans across stakeholders? i. No ii. Yes 0 **Current Year** by Start of 2023 I.II Plan to restore service after wildfire related outage Capability 44 I.II.a Are there detailed and actionable procedures in place to restore service after a wildfire related outage? i. No ii. Yes O **Current Year** O by Start of 2023 I.II.b Are employee and subcontractor crews trained in, and aware of, plans? i. No ii. Yes O **Current Year** by Start of 2023 I.II.c To what level are procedures to restore service after a wildfirerelated outage customized? i. Territoryii. Region level iii. Circuit level iv. Span level wide v. Asset level **Current Year** O O 0 0 0 by Start of 2023 I.II.d Is the customized procedure to restore service based on topography, vegetation, and community needs? i. No ii. Yes 0 **Current Year** by Start of 2023 \mathbf{O} I.II.e Is there an inventory of high risk spend efficiency resources available for repairs?

<u>Clarification</u>: Question is asking whether the resources, components and tools that the utility has available for repairs, maintenance, and unexpected replacement are the most risk spend efficient options on the market

	i. No		ii. Yes
Current Year		•	0
by Start of 2023	0		

I.III Emergency community engagement during and after wildfire

Capability 45

I.III.a Does the utility provide clear and substantially complete communication of available information relevant to affected customers?

<u>Clarification</u>: Does the utility provide all available information which could be relevant to affected customers in a way that customers can receive in real time and easily understand?

	i. No		ii. Yes		iii. Yes, along with referrals to other agencies
Current Year	0	-	0	•	
by Start of 2023	0		0		

I.III.b What percent of affected customers receive complete details of available information?

	i. ≤95% of customers	ii. >95% of customers	iii. >98% of customers	iv. >99% of customers	v. >99.9% of customers
Current Year	. 0	. 0	•	. 0	0
by Start of 2023	. 0	. 0	. 0		. 0

I.III.c What percent of affected medical baseline customers receive complete details of available information?

	i. ≤99% of medical baseline customers	ii. >99% of medical baseline customers	iii. >99.5% of medical baseline customers	iv. >99.9% of medical baseline customers	v. 100% of medical baseline customers
Current Year	. 0	. 0		. 0	. 0
by Start of 2023	. 0	. 0		. 0	. 0

I.III.d How does the utility assist where helpful with communication of information related to power outages to customers?

as requested

i. Through availability of relevant evacuation information and links on website and toll-free telephone number

ii. Through availability of relevant evacuation information and links on website and toll-free telephone number, and assisting disaster response professionals

Current Year by Start of 2023	O i. Through availability of	ii. Through availability of relevant evacuation information and links on website and toll-free	0
		rith other emergency	management
agencies during e	mergency situatio	ons :	
	i. Utility does not engage with other agencies	ii. Utility engages with other agencies in an ad hoc manner	iii. Utility has detailed and actionable established protocols for engaging with emergency management organizations
Current Year	. 0		0
by Start of 2023	. 0	. 0	
I III f Does the util	ity communicate a	nd coordinate resou	rces to
		e.g., shelters, supplie	
etc.)?	ng emergencies (e	s.g., shelters, supplie	ss, transportation
	i. No		ii. Yes
Current Year	. 0	•	
by Start of 2023	. 0	•	
Capability 4 I.IV.a Is there a prevents and to clea	6 rotocol in place to arly and actionably	record the outcome	of emergency
process improver	nents?		
	i. No		ii. Yes
Current Year			
by Start of 2023	0		
I.IV.b Is there a de	efined process and	d staff responsible fo	or incorporating
learnings into em	ergency plan?		
	i. No		ii. Yes
Current Year	0	•	
by Start of 2023	. 0	•	
_		ings and improveme	
upgated plan test	ea usina "arv runs	s" to confirm its effe	ctiveness?

i. No ii. Yes

Current Year by Start of 2023			i. No			ii.	Yes
I.IV.d Is there a	a define	d proces	ss to s	olicit inpu	ut fro	om a variet	y of other
stakeholders a	nd inco	rporate	learnin	gs from o	othe	r stakehol	ders into the
emergency pla	n?						
			i. No			ii.	Yes
Current Year			0				
by Start of 2023			0				
I.V Proces wildfire an Capability	d PS	_		ious ir	npı	oveme	nt after
I.V.a Does the	utility c	onduct	an eva	luation o	r dek	rief proce	ss after a
wildfire?							
			i. No			ii.	Yes
Current Year			0				
by Start of 2023			0				
I.V.b Does the disseminate re-	_				men	t?	partners to
Current Year	n i	1. NO		ii. One c	or trie c	omer	III. BOIII
by Start of 2023		0			0	•	
I.V.c In what of	ther act	ivities d	oes the	e utility e	ngag	je?	
		i. None		ublic listening sessions	iii.	Debriefs with partners	iv. Public listening sessions, debriefs with partners, and others
Current Year		0	•	0		0	•
by Start of 2023		0		0		0	
I.V.d Does the improved?	utility s	hare wit	:h partı	ners findi	ngs	about wha	it can be
			i. No			ii.	Yes
Current Year			0				
by Start of 2023			0				

made public?				
		i. No		ii. Yes
Current Year	и	0	•	
by Start of 2023	•	0	•	
IVf Does the	utility cond	duct proactive	outreach to l	ocal agencies and
				can be improved?
organizations t	.o sonon a		aon on what	_
		i. No		ii. Yes
Current Year		0		
by Start of 2023		O		
I.V.g Does the	utility hav	e a clear plan f	or post-event	listening and
incorporating I		-	-	•
		i. No		ii. Yes
Current Year		0	•	
by Start of 2023		0		
I.V.h Does the	utility track	k the implemen	itation of reco	ommendations and
report upon the	eir impact?	?		
Clarification: Recom	nmendations h	ere refer to recomm	nendations from c	ustomers, local agencies,
organizations and o	ther stakehold	lers received followi	ng a wildfire or PS	SPS event
		i. No		ii. Yes
Current Year				0
by Start of 2023	и	0		
,				
I.V.i Does the u	utility have	a process to d	conduct revie	ws after wildfires in
other the territor	ory of othe	r utilities and s	states to iden	tify and address
areas of improv	_			
•		· N.		" V.
Current Veer	1	i. No		ii. Yes
Current Year		0		
by Start of 2023		O		
J. Stake	holde	ar coons	ration	and
commun	aity ar	oope	nation (uliu
Commu	iity ei	iyayeiii	511L	

I.V.e Are feedback and recommendations on potential improvements

J.I Cooperation and best practice sharing with other

Capability 48 J.I.a Does the utilit utilities through a c

J.I.a Does the utility actively work to identify best practices from other
utilities through a clearly defined operational process?

	i. No	ii. Yes, from other California utilities	ii. Yes, from other global utilities
Current Year	0	0	
by Start of 2023	0	0	•

J.l.b Does the utility successfully adopt and implement best practices identified from other utilities?

	i. No	ii. Yes
Current Year	0	
by Start of 2023	0	

J.I.c Does the utility seek to share best practices and lessons learned in a consistent format?

	i. No	ii. Yes
Current Year	0	
by Start of 2023	0	

J.I.d Does the utility share best practices and lessons via a consistent and predictable set of venues/media?

	i. No		ii. Yes
Current Year	0		
by Start of 2023	0	·	

J.l.e Does the utility participate in annual benchmarking exercises with other utilities to find areas for improvement?

		i. No		ii. Yes
Current Year	•	0	•	
by Start of 2023		0		

J.I.f Has the utility implemented a defined process for testing lessons learned from other utilities to ensure local applicability?

	i. No		ii. Yes
Current Year			0
by Start of 2023	0	•	

J.II Engagement with communities on utility wildfire mitigation initiatives

Capability 49

J.II.a Does the utility have a clear and actionable plan to develop o	r
maintain a collaborative relationship with local communities?	

		i. No	ii. Yes
Current Year	п	0	
by Start of 2023		0	

J.II.b Are there communities in HFTD areas where meaningful resistance is expected in response to efforts to mitigate fire risk (e.g. vegetation clearance)?

	i. No	ii. Yes
Current Year	0	
by Start of 2023	0	

J.II.c What percent of landowners are non-compliant with utility initiatives (e.g., vegetation management)?

	i. More than 5%	ii. Less than 5%	iii. Less than 2%	iv. Less than 1%	v. Less than 0.5%
Current Year	0	. 0	. 0	. 0	
by Start of 2023		. 0	. 0	0	

J.II.d What percent of landowners complain about utility initiatives (e.g., vegetation management)?

	i. More than 5%	ii. Less than 5%	iii. Less than 2%	iv. Less than 1%	v. Less than 0.5%
Current Year	•	. 0	. 0		. 0
by Start of 2023	. 0	. 0	. 0		. 0

J.II.e Does the utility have a demonstratively cooperative relationship with communities containing >90% of the population in HFTD areas (e.g. by being recognized by other agencies as having a cooperative relationship with those communities in HFTD areas)?

		i. No		ii. Yes
Current Year			•	0
by Start of 2023	•	0	•	

J.II.f Does utility have records of landowners throughout communities containing >90% of the population in HFTD areas reaching out to notify of risks, dangers or issues in the past year?				
Clarification: For this year, p	please identify whether the quest	tion holds true for 2020. For three years		
from now, specify whether y	ou expect the question to hold to	rue in 2023.		
Current Year by Start of 2023	i. No O	ii. Yes		
J.III Engagem Capability 50	nent with LEP and	d AFN populations		
J.III.a Can the utility	provide a plan to partne	er with organizations		

J.III.a Can the utility provide a plan to partner with organizations representing Limited English Proficiency (LEP) and Access & Functional Needs (AFN) communities?

	i. No		ii. Yes
Current Year	0	a.	
by Start of 2023	0		

J.III.b Can the utility outline how these partnerships create pathways for implementing suggested activities to address the needs of these communities?

	i. No	ii. Yes
Current Year	0	
by Start of 2023	0	

J.III.c Can the utility point to clear examples of how those relationships have driven the utility's ability to interact with and prepare LEP & AFN communities for wildfire mitigation activities?

	i. No		ii. Yes
Current Year	0	•	
by Start of 2023	0		

J.III.d Does the utility have a specific annually-updated action plan further reduce wildfire and PSPS risk to LEP & AFN communities?

	i. No		ii. Yes
Current Year	0	*	
by Start of 2023	lack		

i. No ii. Yes

J.IV. Collaboration with emergency response agencies

Capability 51

J.IV.a	What is the cooperative model between the	e utility	and suppression	n
agend	cies?			

	i. Utility does not sufficiently cooperate with suppression agencies	ii. Utility cooperates with suppression agencies by notifying them of ignitions	iii. Utility cooperates with suppression agencies by working cooperatively with them to detect ignitions, in addition to notifying them of ignitions as needed
Current Year		. 0	
by Start of 2023	. 0	. 0	

J.IV.b In what areas is the utility cooperating with suppression agencies

	i. High risk areas	ii. All areas under utility control	iii. Throughout utility service areas	iv. None of the above
Current Year	. 0	. 0		. 0
by Start of 2023		. 0		. 0

J.IV.c Does the utility accurately predict and communicate the forecasted fire propagation path using available analytics resources and weather data?

	i. No	ii. Yes
Current Year		0
by Start of 2023	0	

J.IV.d Does the utility communicate fire paths to the community as requested?

	i. No		ii. Yes
Current Year			0
by Start of 2023		•	0

J.IV.e Does the utility work to assist suppression crews logistically, where possible?



J.V. Collaboration on wildfire mitigation planning with stakeholders

Capability 52

J.V.a Where does the utility conduct substantial fuel management?

	i. Utility does not conduct fuel management	ii. Utility conducts fuel management along rights of way	iii. Utility conducts fuel management throughout service area
Current Year		. 0	0
by Start of 2023		. O	0

J.V.b Does the utility engage with other stakeholders as part of its fuel management efforts?

				IV. Utility	v. Utility snares
				shares fuel	fuel
				management	management
				plans with	plans with
				other	other
				stakeholders,	stakeholders,
				and	and pro-
				coordinates	actively
				fuel	coordinates
				management	fuel
				activities,	management
				including	activities,
			iii. Utility	adjusting	including
			shares fuel	plans, to	adjusting
			management	cooperate	plans, to
			plans with	with other	cooperate with
			other	stakeholders	other
	i. Utility does		stakeholders	state-wide to	stakeholders
	not		and works	focus on	state-wide to
	coordinate	ii. Utility	with other	areas that	focus on areas
	with broader	shares fuel	stakeholders	would have	that would
	fuel	management	conducting	the biggest	have the
	management	plans with	fuel	impact in	biggest impact
	efforts by other	other	management	reducing	in reducing
	stakeholders	stakeholders	concurrently	wildfire risk	wildfire risk
Current Year		. 0	. 0	. 0	. 0
by Start of 2023	0	. 0		0	. 0

J.V.c Does the utility cultivate a native vegetative ecosystem across territory that is consistent with lower fire risk?

	i. No	ii. Yes
Current Year		0
by Start of 2023		0

J.V.d Does the utility fund local groups (e.g., fire safe councils) to support fuel management?

	i. No	ii. Ye
Current Year	0	
by Start of 2023	0	

J.V.e Do you have any additional comments?

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Verification for the Utility Wildfire Mitigation Maturity Survey

Utilities shall complete the following verification, attached to a PDF of their electronic survey responses, following completion of the electronic survey. This document will be shared with the utilities for completion within one business day of completing the electronic survey.

Complete the following verification for the Utility Wildfire Mitigation Maturity Survey submission:

(See Rule 1.11)
(Where Applicant is a Corporation)

I am an officer of the applicant corporation herein, and am authorized to make this verification on its behalf. The responses in the attached survey are true of my own knowledge.

I declare that the foregoing is true and correct.

Executed on 2/8/2021 at Alamo , California.

(Date) (Name of city)

(Signature and Title of Corporate Officer)