Q1. 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.

<u>Instructions for answering each of the survey questions:</u>

Utilities shall answer survey questions by:

- 1. Indicating the most appropriate response option to each question based on the <u>presently employed</u> <u>practices and capabilities</u> of the utility.
- 2. Indicating the <u>most appropriate response to each question for the utility's expected capabilities in 3 years</u> (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.

<u>Instructions for use of the electronic survey:</u>

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.

Α.

A. Risk mapping and simulation

A.I Climate scenario modeling and sensitivities

Capability 1

QAla.

A.I.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	\circ			•	
by Start of 2023					

QAIb.

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 meet all</u> 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	iv. Independent 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	\circ	•	

QAIc.

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		\circ		•
by Start of 2023		\bigcirc	\circ	\bigcirc	•

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

QAle.

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

	i. None	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	0	0	0	0	•
by Start of 2023		\circ			

QAIf.

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

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

AII

A.II Ignition risk estimation

Capability 2

QAIIa.

A.II.a How is ignition risk calculated?

	i. No reliable tool or process to estimate risk across the grid based on characteristics and condition of lines, equipment, and vegetation	ii. Tools and proce can reliably cated the risk of ignitiances the grid in least two categor based on characted and condition of equipment, surrouvegetation, and loo weather patter	gorize can quar tion accurate risk of ig ories the gri eristics charace lines, condit unding equipmer calized vegetation		can quantitatively and accurately assess the risk of ignition across the grid based on characteristics and condition of lines, equipment, surrounding vegetation, localized weather patterns, and flying debris probability with probability based on specific failure modes and top contributors to those failure modes
Current Year		\bigcirc		\bigcirc	•
by Start of 2023				\bigcirc	•
automation' in Table 2 of the or 2; (iii) corresponds to leve			esponds to lev	el 0; (ii) corre	sponds to level 1
	i. Not automated	ii. Partially (<50%)		Mostly (≥ 50%)	iv. Fully
Current Year	i. Not automated	(<50%)			iv. Fully
	i. Not automated			(≥ 50%)	
Oy Start of 2023 QAIIc.	tool? i. Less granular than regional, or no tool	(<50%) •		(≥ 50%)	
QAIIc. 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	d v. Asset-based
Oy Start of 2023 QAllc. 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	d v. Asset-based
•	tool? i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based	iv. Span-based	d v. Asset-based
QAIIc. A.II.c How granular is the Current Year by Start of 2023	tool? i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based	iv. Span-based	d v. Asset-based
QAIIc. A.II.c How granular is the Current Year by Start of 2023	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based	iv. Span-based	d v. Asset-based

 $\label{eq:QAlle} \textit{A.II.e What confidence interval, in percent, does the utility use in its wildfire risk assessments?}$

	>60%, or no quantified confidence interval	>80%	>90%	>95%
Current Year	•	\circ		
by Start of 2023	0	•		
A.III Estimation	n of wildfir	e conseau	ences f	or
communities				
Capability 3				
QAIIIa. A.III.a How is estimated of	onsequence of ignit	ion relayed?		
A.m.a now is estimated to	onsequence or igini	ion relayeu:		
	i. No translation of ignition risk estimates to potential consequences for communities	ii. Ignition events categorized as low or high risk to communities	iii. Ignition eve categorized wit more levels of r communitie	h 5 or quantitatively, risk to accurately, and
Current Year	0	0		•
by Start of 2023	0	0	0	•
QAIIIb.			iti an mial O	
A.III.b What metrics are u	sed to estimate the	consequence of igr	lition risk?	
	i. As a function of at least the following: structures potential fatalities, or area	t one of potential fatalities burned, of structures b	on of at least s, and one or both ourned, or area ned	iii. As a function of at least potential fatalities, structures burned, area burned, monetary damages, impact on air quality, and impact on GHG reduction goals
Current Year	0		•	
by Start of 2023			•	

QAIIIc.

A.III.c Is the ignition risk impact analysis available for all seasons?

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

A.III.d How automated is the ignition risk estimation process?

Clarification: 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. Not automated	(<50%)	iii. (2	≥ 50%)	iv. Fully
Current Year	0	0		•	0
y Start of 2023	0	\circ		•	
QAIIIe. A.III.e How granular is the		ation process?			
	i. Less granular than regional, or no tool at all	ii. Regional iii. Cir	cuit-based	iv. Span-base	ed v. Asset-based
Current Year	0	0	0	0	•
y Start of 2023			\bigcirc	\circ	•
QA/IIf. A.III.f How are the outputs	s of the ignition risk	impact assessme	nt tool eva	aluated?	in Outputs industry
A.III.f How are the output	i. Outputs not evaluated	ii. Outputs independentl assessed by experts	iii. Outputs assessed b confirmed	independently by experts and	assessed by experts an confirmed based on re time learning, for
A.III.f How are the outputs	i. Outputs not evaluated	ii. Outputs independent!	iii. Outputs assessed b confirmed	independently by experts and by historical data	assessed by experts an confirmed based on re time learning, for example, using machin learning
A.III.f How are the outputs Current Year y Start of 2023 QAIIIg.	i. Outputs not evaluated	ii. Outputs independentl assessed by experts	iii. Outputs assessed b confirmed	independently by experts and by historical lata	assessed by experts an confirmed based on re time learning, for example, using machin learning
•	i. Outputs not evaluated	ii. Outputs independently assessed by experts impact? ii. Level and conditions of vegetation and weather including the vegetation specifies immediately	iii. Outputs assessed by confirmed c	independently by experts and by historical data d conditions of and weather, the vegetation immediately by the ignition up-to-date	assessed by experts an confirmed based on re time learning, for example, using machin learning
A.III.f How are the outputs Current Year y Start of 2023 QAIIIg.	i. Outputs not evaluated re used to estimate i. Level and conditions of	ii. Outputs independentl assessed by experts impact? ii. Level and conditions of vegetation and weather including the vegetation specifies immediately surrounding the ignition.	iii. Outputs assessed by confirmed c	independently by experts and by historical data d conditions of and weather, the vegetation immediately ing the ignition up-to-date content, local	example, using machin learning

AIV.

A.IV Estimation of wildfire and PSPS risk-reduction impact

Capability 4

QAIVa.

	i. No clear estimation of risk rec reduction potential init	Approach accurately estimates risk luction potential of iatives categorically .g. High, Medium, Low)	iii. Approach reliably estimates risk reduction potential of initiatives, on an ordinal scale (e.g. 1- 5)	iv. Approach reliably estimates risk reduction potential of initiatives on an interval scale (e.g specific quantitativ units)	initiatives on an interval scale (e.g. specific quantitative units) with a
Current Year	0	0	0	•	0
by Start of 2023		0	0	•	0
QAIVb. A.IV.b How automated is Clarification: For clarificati automation' in Table 2 of t or 2; (iii) corresponds to le	on on level of autor he Maturity Model.	nation please ret (i) in this case co	fer to the 'level corresponds to lev 4	of systematization	
		II. Failia	uiy ii		iv. Fully
	i. Not automated	(<50%	%)	(≥50%)	
Current Year	i. Not automated	(<50%	%)	(250%)	O
by Start of 2023	i. Not automated	<u>`</u>	6)		
oy Start of 2023 QAIVc.				○●	0
oy Start of 2023 QAIVc. A.IV.c How granular is t	he ignition risk red i. Less granular than regional, or no tool	ii. Regional	assessment too	ol?	
oy Start of 2023 QAIVc.	he ignition risk red i. Less granular than regional, or no tool at all	• duction impact	assessment too iii. Circuit-based		v. Asset-based
Oy Start of 2023 QAIVc. A.IV.c How granular is t	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-based tool estimates	iv. Span-based	v. Asset-based
QAIVc. A.IV.c How granular is t Current Year by Start of 2023	i. Less granular than regional, or no tool at all i. No or limited form evidence or support	ii. Regional act assessment for ii. With evider	iii. Circuit-based tool estimates	iv. Span-based assessed?	iv. Independent expert assessment, supported by historical data of incidents and near

 $\ensuremath{\textit{QA/Ve}}.$ A.IV.e What additional information is used to estimate risk reduction impact?

	i. None	ii. Existing hardware type and condition	iii. Existing hardware type and condition, including operating history	iv. Existing hardware type and condition, including operating history; level and condition of vegetation; weather	v. Existing hardware type and condition, including operating history; level and condition of vegetation; weather; and combination of initiatives already deployed
Current Year	\bigcirc				•
by Start of 2023		\bigcirc			•

AV.

A.V Risk maps and simulation algorithms

Capability 5

<u>Clarification on terminology</u>: 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.

QAVa.

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	\bigcirc	•
by Start of 2023	0	\bigcirc	

QAVb.

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

QAVc.

	i. Not currently calcul	ated ii. Manu		ni-automated process	iv. Fully automated process
Current Year	0	0		•	0
by Start of 2023				•	
QAVd. A.V.d How are decisions	to update algorit	thms evaluated	?		
	i. Not currently e		dependently evaluate experts		pendently evaluated by s and historical data
Current Year	0		•		0
by Start of 2023					
QAVe. A.V.e What other data is ι	ısed to make ded	cisions on whet	her to update al	gorithms?	
	i. Historic ignition and propagation data	ii. Current and historic ignition and propagation data	iii. Current and historic ignition and propagation data; near-miss data	iv. Current and historic ignition a propagation data near-miss data data from othe utilities and oth sources	nd a; ; er
Ourment Voor					

Current Year by Start of 2023

B. Situational awareness and forecasting

BI.

B.I Weather variables collected Capability 6

QBIa.

B.I.a What weather data is currently collected?

	i. Wind data being collected insufficient to properly nderstand wind related risks along grid	ii. Wind being measured accurately enough along the grid to estimate ignition probability	iii. Range of accur weather variables humidity, precipita surface and atmospheric wir conditions) that im probability of ignitior propagation from u assets	(e.g. ignition and propagation tion, from utility assets; additional data to measure physical impact of weather on and grid collected (e.g.,
Current Year	\bigcirc	\bigcirc	•	
by Start of 2023		0	•	
QBlb. B.I.b How are measurements	s validated?			
j	. Measurements not cur validated		ld calibration ements	iii. Automatic field calibration measurements
Current Year	0	(0
by Start of 2023				
QBIc. B.I.c Are elements that cann content)?	ot be reliably mea	asured in real time	being predicted	l (e.g., fuel moisture
B.I.c Are elements that cann	-	asured in real time	being predicted	l (e.g., fuel moisture ii. Yes
B.I.c Are elements that cann	i. I		being predicted	
B.I.c Are elements that cann content)?	i. I	No	being predicted	ii. Yes
B.I.c Are elements that cann content)? Current Year	i. l	No		ii. Yes
B.I.c Are elements that cannot content)? Current Year by Start of 2023 QBId.	i. l	No ovide data on weat		ii. Yes o
B.I.c Are elements that cannot content)? Current Year by Start of 2023 QBId.	i. I	No O O Ovide data on weat	ner metrics beir	ii. Yes o o order org collected?

QBIIa.

B.II.a How granular is the weather data that is collected?

	i. Weather data collected does not accurately reflect loc weather conditions across grid infrastructure	to reliably m	suf relia ata has c nularity are easure en itions in area	Weather data has ficient granularity to bly measure weather onditions in HFTD eas, and along the tire grid and in all is needed to predict eather on the grid	iv. Weather data has sufficient granularity to reliably measure weather conditions 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 altitudes relevant to ignition risk
Current Year					
by Start of 2023	\circ			\bigcirc	•
QBIIb. B.II.b How frequently is d	i. Less frequently than hourly	ii. At least hourly	iii. At least fo times per ho		mes v. At least sixty times per hour
Current Year	0				•
by Start of 2023	0	\bigcirc	\circ	\circ	•
QBIIc. B.II.c How granular is the	i. Less granular than regional, or no tool at all	ii. Regional	iii. Circuit-bas	ed iv. Span-base	ed v. Asset-based
Current Year				•	
by Start of 2023	0	\bigcirc		•	
QBIId. B.II.d How automated is to Clarification: For clarification automation' in Table 2 of the or 2; (iii) corresponds to lever	n on level of autom e Maturity Model. (i	ation please ref) in this case co	er to the 'lev rresponds to	el of systematiza	

	i. Not automated	ii. Partially (<50%)	iii. Mostly (≥50%)	iv. Fully
Current Year	0	0	0	•
by Start of 2023	\circ		\bigcirc	•

BIII.

B.III Weather forecasting ability

Capability 8

	i. No reliable independent weather forecasting ability	ii. Utility has inder weather forecastir sufficiently accu fulfill PSP requiremen	g ability use a congrate to stations a weather of	as the ability to mbination of te weather and external data to make e forecasts	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 on a learning algorithm and updated weather inputs	
Current Year				•		
by Start of 2023	0	0		\circ	•	
QBIIIb. B.III.b How far in advance	e can accurate fored					
Current Year	i. Less than two weeks if	radvance II. At le	ast two weeks in adva	ance III. At lea	ast three weeks in advance	
by Start of 2023					0	
5y 3tdirt 01 2020						
QBIIIc. B.III.c At what level of gra	i. Less granular than regional, or no forecasts at all	ii. Regional	ed? iii. Circuit-based	iv. Span-bas	ed v. Asset-based	
Current Year	0	\bigcirc				
by Start of 2023	0	0	0	•	0	
QBIIId. B.III.d How are results en	ror-checked? i. Results are not error	agai	sults are error check nst historical weath patterns	ed fo er subs	eria for option (ii) met, and orecasted results are sequently error checked t measured weather data	
Current Year	0		0		•	
by Start of 2023					•	
QBIIIe. B.III.e How automated is Clarification: For clarification automation' in Table 2 of the or 2; (iii) corresponds to lev	n on level of automate Maturity Model. (i) i	tion please refe in this case cor				
	i. Not automated	ii. Partially (<50%)		Mostly (≥50%)	iv. Fully	

BIV.

B.IV External sources used in weather forecastingCapability 9

Q	BI	V	'a

B.IV.a What source does the utility use for weather data?

	i. Utility does not use external weather data	ii. External data used where direct measurements from utility's own weather stations are not available	iii. Utility uses a combination of accurate weather stations and external weather data	iv. Utility uses a combination of accurate weather stations and external weather data, and elects to use the data set, as a whole or in composite, that is most accurate
Current Year	0	0	0	•
by Start of 2023	0			•

QBIVb.

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

	i. Weather station data is not checked for errors	ii. Mostly manual processes for error checking weather stations with external data sources	iii. Mostly automated processes for error checking weather stations with external data sources	iv. Completely automated processes for error checking weather stations with external data sources	v. Completely 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 processes
Current Year	0	0	•	0	0
by Start of 2023			•		\circ

QBIVc.

B.IV.c For what is weather data used?

	i. Weather data is used to make decisions	ii. Weather data is used to produce a combined weather map that can be used to help make decisions	iii. Weather data is used to create a single visual and configurable live map that can be used to help make decisions
Current Year	0	0	•
by Start of 2023			•

B.V Wildfire detection processes and capabilities

Capability 10

QBVa.

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	•

QBVb.

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

	i. No consistent set of equipment for detecting ignitions along grid	ii. Well-defined equipment for detecting ignitions along grid	iii. Well-defined equipment for detecting ignitions along grid, including remote detection equipment including cameras	iv. Well-defined equipment for detecting ignitions along grid, including remote detection equipment including cameras, and satellite monitoring
Current Year	0		•	\bigcirc
by Start of 2023	0			•

QBVc.

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	v. Procedure 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		•		
by Start of 2023			•		

QBVd.

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	iv. All criteria met for option iii., and software automatically reports any ignition event to suppression forces accurately and in real time
Current Year		•		
by Start of 2023		•	\circ	

C

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.

CI.

C.I Approach to prioritizing initiatives across territory Capability 11

QCla.

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	v. Plan 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				•	
by Start of 2023					•

C.II Grid design for minimizing ignition risk Capability 12

\sim	\sim	II -
()	<i>(</i> '	$^{\prime\prime}$
~		110

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			•

QCIIb.

C.II.b Does the utility provide micro grids or islanding where traditional grid infrastructure is impracticable and wildfire risk is high?

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

QCIIc.

C.II.c Does routing of new portions of the grid take wildfire risk into account?

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

QCIId.

C.II.d Are efforts made to incorporate the latest asset management strategies and new technologies into grid topology?

	i. No	ii. Yes, some effort made in HFTD areas	iii. Yes, across the entire service area
Current Year	0	•	0
by Start of 2023			

CIII.

C.III Grid design for resiliency and minimizing PSPS Capability 13

	-	_				
	i. Many sing	le points of failure	•	ii. n-1 red ı	undancy for all	circuits subject to PSPS
Current Year				(0)		
by Start of 2023					•	
- ,	I					,
QCIIIb. C.III.b What level of re	edundancy does the ut	ility's distribu	ution arch	iitecture	have?	
	i. Many single points o failure	ii. n-1 redu of covering at lea customers in	st 50% of	covering at	dundancy least 70% of s in HFTD	iv. n-1 redundancy covering at least 85% of customers in HFTD
Current Year	0	•		(\circ	0
by Start of 2023		•		(\circ
O.III.O WHAT IEVEL OF 3	i. Many single points of failure	ii. Switches in HFTD areas to ndividually isolate circuits	iii. Switcl HFTD are individually circuits, su no more the customers so	hes in eas to / isolate ich that ci an 2000 sit within c	iv. Switches i HFTD areas to individually isolaticuits, such that more than 100 sustomers sit witch	o HFTD areas to ate individually isolate it no circuits, such that no more than 200
Current Year	0	0	0		•	0
by Start of 2023		\circ	\circ		•	\circ
QCIIId. C.III.d How does the u	utility consider egress	ii. Egress as an in	points used put for grid	iii. Egi available for each o potential based simulati into cons	ress points and mapped customer, and traffic mapped d on traffic on and taken sideration for	iv. Egress points 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
Current Year			(a)	J		
by Start of 2023			•		0	

CIV.

C.IV Risk-based grid hardening and cost efficiency

QCIVa.

Current Year

C.IV.a Does the utility have an understanding of the risk spend efficiency of hardening initiatives? Clarification: 'Hardening initiatives' refers to all initiatives implemented by utility or by other utilities in California

egional iii. Circuit		iii. Annually or mo	Asset-based O
•		iii. Annually or mo	0
•		iii. Annually or mo	0
•		iii. Annually or mo	0
			ore frequently
			ore frequently
ii. Less frequently	y than annually		ore frequently
)	•	
)	•	
tility include withi tiatives implement	in its evaluation ed by utility or	on? by other utilitie	es in
Some iii. Ma	ost i		I, supported by pendent testing
0 0)	•	0
_)	•	
	0 0	0 0	Some iii. Most iv. All indep

i. No

ii. Yes

•

CV.

C.V Grid design and asset innovation

Capability 15

QCVa.

C.V.a How are new hardening solution initiatives evaluated?

	i. No established program for evaluating the risk spend efficiency of new hardening initiatives	ii. New initiatives evaluated based on installation into grid and measuring direct reduction in ignition events	iii. New initiatives evaluated based on installation into grid and measuring direct reduction in ignition events, and measuring reduction impact on near-miss metrics	iv. New initiatives independently evaluated, followed by field testing based on installation into grid and measuring direct reduction in ignition events, and measuring reduction impact on near- miss metrics
Current Year	0		•	
by Start of 2023	0			•

QCVb.

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?

	i. No	ii. Yes, with limited partners	iii. Yes, extensively with industry, academia, and other utilities
Current Year	0	0	•
by Start of 2023			•

QCVc.

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

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

Q372.

D. Asset management and inspections

D.I Asset inventory and condition assessments

Capability 16

QDIa.

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

equipment including including age, state	of wear, and expected lifecycle, including records of all inspections and repairs	repairs and up-to- date work plans on expected future repairs and replacements	replacements wherein repairs and sensor outputs are independently audited
Current Year			
Start of 2023	\bigcirc		

QDIb.

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

	i. Never	ii. Annually	iii. Quarterly	iv. Monthly	v. Hourly
Current Year	0	0	•	\circ	
Start of 2023					

QDIc.

D.I.c Does all equipment in HFTD areas have the ability to detect and respond to malfunctions?

	i. No system and approach are in place to detect or respond to malfunctions	ii. A system and approach are in place to reliably detect incipient malfunctions likely to cause ignition	iii. Sensorized, continuous monitoring equipment is in place to determine the state of equipment and reliably detect incipient malfunctions likely to cause ignition	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		•	\circ	
by Start of 2023	\circ	•	\bigcirc	

	i. There is no inventory	ii. At the span level	iii. At the asset level
Current Year	0	\circ	•
by Start of 2023		0	•

DII.

D.II Asset inspection cycle

Capability 17

QDIIa.

D.II.a How frequent are your patrol inspections?

	i. Less frequent than regulations require	ii. Consistent with minimum regulatory requirements	iii. Above minimum regulatory requirements, with more frequent inspections for highest risk equipment
Current Year	0		•
by Start of 2023			•

QDIIb.

D.II.b How are patrol inspections scheduled?

	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	•		
by Start of 2023	0	•		

QDIIc.

D.II.c What are the inputs to scheduling patrol 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
by Start of 2023	•			\circ

QDIId.

			equirements, with more frequent inspections for highest risk equipment	
Current Year				•
y Start of 2023	0			•
QDIIe. D.II.e How are detailed in	spections scheduled	?		
	i. Based on annual or periodic schedules	ii. Based on up-to- date static maps of equipment types and environment	iii. Risk, as determine by predictive modeling of equipment failure probability and risk causing ignition	ng determined by predictive
Current Year	0	•	\circ	
y Start of 2023	0	•		
	i. At least annually updated or verified static maps of equipment and environment	ii. Predictive modeling of equipment failure probability and risk	iii. Predictive modelin supplemented with continuous monitori by sensors	ı .
current Year	•	0	0	0
y Start of 2023	•	0		
QDIIg.	our other inspections i. Less frequent than regu	s? ulations ii. Consistent	iii. req with minimum	Above minimum regulatory uirements, with more frequent inspections for highest risk
Q <i>DIIg.</i> D.II.g How frequent are yo	our other inspections	5?	iii. req with minimum	Above minimum regulatory uirements, with more frequent
QDIIg. QDIIg. D.II.g How frequent are year. Current Year. by Start of 2023	our other inspections i. Less frequent than regu	s? ulations ii. Consistent	iii. req with minimum equirements	Above minimum regulatory uirements, with more frequent inspections for highest risk equipment
QDIIg. D.II.g How frequent are you	i. Less frequent than regulare require	ii. Consistent regulatory re	iii. req with minimum equirements iii. Risk, as determine by predictive modelion of equipment failure	Above minimum regulatory uirements, with more frequent inspections for highest risk equipment in a div. Risk, independently determined by predictive modeling of equipment
QDIIg. D.II.g How frequent are year Current Year y Start of 2023 QDIIh.	i. Less frequent than regulare require	ulations ii. Consistent regulatory re	iii. Risk, as determine by predictive modelii	Above minimum regulatory uirements, with more frequent inspections for highest risk equipment o o div. Risk, independently determined by predictive
QDIIg. D.II.g How frequent are year Current Year by Start of 2023	i. Less frequent than regulare require ections scheduled?	ii. Based on up-to-date static maps of equipment	iii. req with minimum equirements iii. Risk, as determine by predictive modelion of equipment failure probability and risk	Above minimum regulatory uirements, with more frequent inspections for highest risk equipment iv. Risk, independently determined by predictive modeling of equipment failure probability and risk

iii. Above minimum regulatory

D.II.i What are the inputs to scheduling other 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	•			
by Start of 2023	•	0		0

DIII.

D.III Asset inspection effectiveness

Capability 18

QDIIIa.

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

	i. Patrol, detailed, enhanced, and other inspection procedures and checklists do not include all items required by statute and regulations	ii. Patrol, detailed, enhanced, and other inspection procedures and checklists include all items required by statute and regulations	iii. Patrol, detailed, enhanced, and other inspection procedures and checklists include all items required by statute and regulations, and includes lines and equipment typically responsible for ignitions and near misses
Current Year	0	0	•
by Start of 2023			•

QDIIIb.

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

	i. Based on statute and regulatory guidelines only	ii. Based on predictive modeling based on vegetation and equipment type, age, and condition	iii. Based on predictive modeling based on equipment type, age, and condition and validated by independent experts	iv. Based on predictive modeling based on equipment type, age, and condition and validated by independent experts, with dynamic adjustments in real time based on deficiencies found during inspection
Current Year		•		
by Start of 2023		•		

QDIIIc.

D.III.c At what level of granularity are the depth of checklists, training, and procedures customized?

	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		\circ	\bigcirc	•
by Start of 2023	0	\circ	\circ	\circ	•

D.IV Asset maintenance and repair

Capability 19

_	_			
\sim	$\boldsymbol{\Gamma}$	/۱	/_	
	, ,	/ N	12	

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

	Electric lines and equipment not consistently maintained at required condition over multiple circuits	ii. Electrical lines and equipment maintained as required by regulation	iii. Electrical lines and 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			•
by Start of 2023	0	0	

QDIVb.

D.IV.b How are service intervals set?

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

QDIVc.

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	•	0
by Start of 2023	0	•	\bigcirc

DV.

D.V QA/QC for asset maintenance

Capability 20

QDVa.

D.V.a How is contractor activity audited?

	i. Lack of controls for auditing work completed, including inspections, for employees or subcontractors	ii. Through an established and functioning audit process to manage and confirm work completed by subcontractors	iii. Through an established and demonstrably 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 evidence)	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 technologies capable of sampling the contractor's work (e.g., LiDAR scans, photographic evidence)
Current Year		•		
by Start of 2023		•		
	i.	No		Yes
Oy Start of 2023 QDVc. D.V.c How frequently is Q	A/QC information us	sed to identify defic		work
oy Start of 2023 QDVc.	A/QC information usions performance?	sed to identify defic	iencies in quality of	work
Oy Start of 2023 QDVc. D.V.c How frequently is Quently performance and inspect	A/QC information usions performance?	sed to identify defic	iencies in quality of	work
Oy Start of 2023 QDVc. D.V.c How frequently is Quently performance and inspect	A/QC information usions performance?	sed to identify defic	iencies in quality of	work
D.V.c How frequently is Q	A/QC information usions performance?	sed to identify defic	iencies in quality of	work
Oy Start of 2023 QDVc. D.V.c How frequently is Quently performance and inspect	A/QC information usions performance?	sed to identify defic iii. On a i. Sporadically ba of meet utility-prescue ii. QA/QC information is used to identify	iencies in quality of an ad hoc asis iv. Regularl	y v. Real-time
QDVc. D.V.c How frequently is Q performance and inspect Current Year by Start of 2023	i. Never ii i. Lack of effective remediation for ineffective inspections or	iii. On a i. Sporadically bate of the meet utility-prescription is used to identify systemic deficiencies in quality of work and	iencies in quality of an ad hoc asis iv. Regularl iii. QA/QC information is used to identify systemic deficiencies in quality of work and inspections and recommend training	v. Real-time v. Real-time iv. QA/QC information is used to identify systemic deficiencies in quality of work and inspections, grade individuals, and recommend specific premade and tested training

 $\mbox{\it QDVe.}$ D.V.e Are workforce management software tools used to manage and confirm work completed by subcontractors?



E.

E. Vegetation management and inspections

EI.

E.I Vegetation inventory and condition assessmentsCapability 21

QEIa.

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

	i. There is no vegetation inventory sufficient to determine vegetation clearances across the grid at the time of the last inspection	ii. Centralized inventory of vegetation clearances based on most recent inspection	iii. Centralized inventory of vegetation clearances, including predominant vegetation species and individual high risk-trees across grid	iv. Centralized inventory of vegetation clearances, including individual vegetation species and their expected growth rate, as well as individual high risk-trees across grid	v. Centralized inventory of vegetation clearances, including individual vegetation species and their expected growth rate, as well as individual high risk-trees across grid. Includes upto- date tree health and moisture content to determine risk of ignition and propagation
Current Year			\bigcirc	•	
by Start of 2023					

QEIb.

E.I.b How frequently is the inventory updated?

	i. Never	ii. Annually	iii. Within 1 month of collection	iv. Within 1 week of collection	v. Within 1 day of collection
Current Year		\circ		\circ	•
by Start of 2023		\bigcirc			•

QEIc.

			ii. Yes			
Current Year		0		•		
y Start of 2023			•)	
Q <i>Eld.</i> E. <mark>l.d How granular is the</mark>	inventory?					
	i. Regional	ii. Circi	uit-based iii.	Span-based	iv. Asset-based	
current Year	0		0	0	•	
y Start of 2023			0	\circ	•	
^E E.II Vegetatio	n inspect	ion cvc	le			
-iii vogotatio	ii iiiopoot	iioii oyo				
Capability 22						
Capability 22						
Capability 22						
Capability 22 QEIIa. E.II.a How frequent are al	types of vegeta	ition inspectio	ons?			
QEIIa.	types of vegeta	ition inspectio	ons?	iii. Ab o	v e minimum regulatory	
QEIIa.	i. Less frequent the	an regulations	ons? ii. Consistent with min regulatory requireme	imum requirem	o ve minimum regulatory nents, with more frequent ons for highest risk areas	
QEIIa. E.II.a How frequent are al	i. Less frequent tha	an regulations	ii. Consistent with min	imum requirem	nents, with more frequent	
QEIIa.	i. Less frequent tha	an regulations	ii. Consistent with min	imum requirem	nents, with more frequent ons for highest risk areas	
QEIIa. E.II.a How frequent are al	i. Less frequent tha	an regulations	ii. Consistent with min	imum requirem	nents, with more frequent ons for highest risk areas	
QEIIa. E.II.a How frequent are al urrent Year y Start of 2023	i. Less frequent the require	an regulations	ii. Consistent with min	imum requirem	nents, with more frequent ons for highest risk areas	
QEIIa. E.II.a How frequent are al urrent Year y Start of 2023	i. Less frequent the require	an regulations	ii. Consistent with min	imum requirem ents inspectio	nents, with more frequent ons for highest risk areas	
QEIIa. E.II.a How frequent are al urrent Year y Start of 2023	i. Less frequent the require	an regulations	ii. Consistent with min	imum requirem	iv. Need, as independently determined by predictive modeling	
QEIIa. E.II.a How frequent are al	i. Less frequent the require	an regulations e eduled? Based on annual or periodic	ii. Consistent with min regulatory requirements of the consistent with min regulatory requirements. ii. Based on up-to-date static maps of predominant vegetation species	iii. Risk, as determined by predictive modeling of vegetation growth and growing	iv. Need, as independently determined by predictive modeling of vegetation growth and growing	

	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	v. Predictive modeling of 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		•		\bigcirc	
by Start of 2023			•	\bigcirc	

EIII.

E.III Vegetation inspection effectiveness

Capability 23

QEIIIa.

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

	i. Patrol, detailed, enhanced, and other inspection procedures and checklists do not include all items required by statute and regulations	ii. Patrol, detailed, enhanced, and other inspection procedures and checklists include all items required by statute and regulations	iii. Patrol, detailed, enhanced, and other inspection procedures and checklists include all items required by statute and regulations, and includes vegetation types typically responsible for ignitions and near misses
Current Year	0	0	•
by Start of 2023		0	

QEIIIb.

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

	i. Based on statute and regulatory guidelines only	ii. Based on predictive modeling based on vegetation and equipment type, age, and condition	iii. Based on predictive modeling based on vegetation and equipment type, age, and condition and validated by independent experts	iv. Based on predictive modeling based on vegetation and equipment type, age, and condition and validated by independent experts, with dynamic adjustments in real time based on deficiencies found during inspection
Current Year	0		•	
by Start of 2023	\circ		•	

QEIIIc.

E.III.c At what level of granularity are the depth of checklists, training, and procedures customized?

ten fails to maintain tatutory and regulatory s 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
ten fails to maintain tatutory and regulatory s 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
ten fails to maintain tatutory and regulatory s 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
ten fails to maintain tatutory and regulatory s around all lines and equipment i. No	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
tatutory and regulatory s around all lines and equipment i. No	and regulatory clearances around all lines and equipment	statutory and regulatory clearances around all lines and equipment
ninimum statutory		•
i. No		
i. No	y or regulatory clearance	s during all seasons?
		•
0		•
ion risk modeling	ii. Ignition and propagation risk modeling	iii. None of the above
	•	
	ion risk modeling	on risk modeling modeling

E.IV.e	Are community	organizations	engaged in	setting local	clearances and	protocols?

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

QEIVf.

E.IV.f Does the utility remove vegetation waste along its right of way across the entire grid?

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

QEIVg.

E.IV.g How long after cutting vegetation does the utility remove vegetation waste along right of way?

	i. Not at all	ii. Longer than 1 week	iii. Within 1 week or less	iv. On the same day
Current Year	0	0	0	•
by Start of 2023		\bigcirc	\bigcirc	•

QEIVh.

E.IV.h Does the utility work with local landowners to provide a cost-effective use for cutting vegetation?

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

QEIVi.

E.IV.i Does the utility work with partners to identify new cost-effective uses for vegetation, taking into consideration environmental impacts and emissions of vegetation waste?

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

EV.

E.V Vegetation fall-in mitigation

	i. Utility does not remove vegetation outside of right of way	ii. Utility removes some vegetation outside of right of ways	iii. Utility systematically removes vegetation outside of right of way	iv. Utility systematically removes vegetation outside of right of way, informing relevant communities of removal
Current Year				•
by Start of 2023				
E.V.b How is poten	itial vegetation that may po	ose a threat identifie	d?	
E.V.b How is poten	itial vegetation that may po	se a threat identifie	d?	
E.V.b How is poten	itial vegetation that may po	ose a threat identifie	iii. Based on the probability and consequences of	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 high-risk trees outside the right of way

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

QEVc.

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

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

QEVd.

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?

i. Not at all ii. Longer than 1 week iii. Within 1 week or less iv. On the same day

Current Year				•
by Start of 2023				•
QEVf. E.V.f Does the utility wo vegetation?	ork with local landown	ners to provide a cos	st-effective use for o	cutting
	j.	No	ii. '	Yes
Current Year		0	(•
by Start of 2023		0	(
QEVg. E.V.g Does the utility w consideration environm				etation, taking into
	i.	No	ii. `	Yes
			(•
Current Year		\bigcirc	`	
by Start of 2023 EVI.				
y Start of 2023 EVI.	for vegetation			
EVI. Capability 26 QEVIa. E.VI. A How is contractors	for vegetatio	on maintena		
EVI. E.VI QA/QC 1 Capability 26	for vegetatio	on maintena		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
EVI. E.VI QA/QC 1 Capability 26	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	iii. Through an established and demonstrably functioning audit process to manage and confirm work completed by subcontractors, where contractor activity is subject to semiautomated audits using technologies capable of sampling the contractor's work (e.g., LiDAR scans,	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 technologies capable of sampling the contractor's work (e.g., LiDAR scans,

QEVIb.

E.VI.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				•	
QEVIc. E.VI.c How frequently is 0 performance and inspecti		used to identify def	iciencies in quality (of work	
	i. Never i		ın ad hoc asis iv. Regular	ly v. Real-time	
Current Year	0		•		
by Start of 2023			•		
QEVId. E.VI.d How is work and in	nspections that do r	not meet utility-pres	cribed standards re		
•	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,	iv. QA/QC information is used to identify systemic deficiencies in quality of work and inspections, grade individuals, and recommend specific premade and tested training based on weaknesses	
•	i. Lack of effective remediation for ineffective inspections or	ii. QA/QC information is used to identify systemic deficiencies in quality of work and	iii. QA/QC information is used to identify systemic deficiencies in quality of work and inspections, and recommend training based on	iv. QA/QC information is used to identify systemic deficiencies in quality of work and inspections, grade individuals, and recommend specific premade and tested training	
E.VI.d How is work and in	i. Lack of effective remediation for ineffective inspections or	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 premade and tested training	
E.VI.d How is work and in	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 premade and tested training based on weaknesses	
Current Year by Start of 2023 QEVIe. E.VI.e Are workforce man	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 premade and tested training based on weaknesses	
Current Year by Start of 2023 QEVIe. E.VI.e Are workforce man	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 premade and tested training based on weaknesses	

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

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?

	i. Utility does not make changes to adjustable equipment in response to high wildfire threat conditions	ii. Utility increases sensitivity of risk reduction elements during high threat weather conditions	iii. Utility increases sensitivity of risk reduction elements during high threat weather conditions and monitors near misses	iv. Utility increases sensitivity of risk reduction elements during high threat weather conditions based on risk mapping and monitors near misses
Current Year				•
by Start of 2023	0	0	0	•
QFIb. F.I.b Is there an automate effectiveness? Clarification: For clarification automation in Table 2 of to cor 2; (iii) corresponds to least	on on level of automati he Maturity Model. (i) ir	on please refer to the	e 'level of systematiza	ation and
	i. No automated proc	ess ii. Partially auto	omated process iii. F	ully automated process
Current Year		(•	
QFIc. F.I.c Is there a predeterr elements?	nined protocol driven	by fire conditions	for adjusting sensit	ivity of grid
	i.	No	ii.	Yes
Current Year		No O		Yes
Current Year by Start of 2023			(
FII. F.II Incorpora Capability 28				•
by Start of 2023 FII. F.II Incorpora	e a clearly explained ge designs?	n risk facto	rs in grid c	ontrol erate the grid
FII. F.II Incorpora Capability 28 QFIIa. F.II.a Does the utility have	ting ignition	n risk facto	rs in grid c	ontrol erate the grid

	i. No			ii. Yes	
Current Year	0			•	
by Start of 2023			•		
	se predictive modeling to replacement decision		operating history,		
	i. Modeling is not use		g is used, but not by external experts	experts and verified by historical data	
Current Year	0		•	0	
y Start of 2023	0		•		
QFIId. F.II.d When does the u	tility operate the grid ab	ove rated voltag	e and current load	d?	
	i During any condition		conditions that are	iii Never	
current Year	i. During any condition		conditions that are o cause wildfire	iii. Never	
	i. During any condition			iii. Never	
Capability 29	o. model and	s unlikely t	o cause wildfire	•	
FIII. F.III PSPS OF Capability 29	PSPS event forecasting	s unlikely t	o cause wildfire	Jation Ily iv. PSPS event generally forecasted accurately with fewer than	
y Start of 2023 FIII. F.III PSPS of Capability 29	PSPS event forecasting ii. Pforeit. PSPS event frequently	conseque?	iii. PSPS event genera forecasted accurately with fewer the 33% of predictions being	lly iv. PSPS event generally forecasted accurately with fewer that ag 25% of predictions being	

F.II.b Does the utility have systems in place to automatically track operation history including current, loads, and voltage throughout the grid at the circuit level?

QFIIIb.

	i. Affected customers are poorly communicated to, with a significant portion not communicated to at all	ii. PSPS event are communicated to >95% of affected customers and >99% of medical baseline customers in advance of PSPS action	iii. PSPS event are communicated to >98% of affected customers and >99.5% of medical baseline customers in advance of PSPS action	iv. PSPS event are communicated to >99% of affected customers and >99.9% of medical baseline customers in advance of PSPS action	v. PSPS event are communicated to >99.9% of affected customers and 100% of medical baseline customers in advance of PSPS action
Current Year					
by Start of 2023	0	0	•	0	0
QFIIIc. F.III.c During PSPS even	nts, what percent	of customers c	omplain?		
	i. 1% or mo	pre	ii. Less than 1%	ili. Les	s than 0.5%
Current Year	0		0		•
by Start of 2023	0				•
QFIIId. F.III.d During PSPS eve	ents, does the uti	lity's website go	down?	ii. Yes	
				II. 165	
		•		ii. Tes	
		● ● average downtim	iii. Less than 0.5	iv. Less than 0.25	v. Less than 0.1
by Start of 2023 QFIIIe. F.III.e During PSPS eve			iii. Less than 0.5	•	hours
		● ● average downtim	iii. Less than 0.5	iv. Less than 0.25	
QFIIIe. F.III.e During PSPS eve Current Year by Start of 2023	i. More than 1 hou	everage downtim	iii. Less than 0.5 hours	iv. Less than 0.25 hours	hours o
OFIIIe. F.III.e During PSPS even Current Year by Start of 2023	i. More than 1 hou	everage downtime ii. Less than 1 hours of the customers to all batteries, etc.)?	iii. Less than 0.5 hours	iv. Less than 0.25 hours	hours o
QFIIIe. F.III.e During PSPS even Current Year by Start of 2023 QFIIIf. F.III.f Are specific resources	i. More than 1 hou	everage downtim	iii. Less than 0.5 hours	iv. Less than 0.25 hours	hours o

F.IV Protocols for PSPS invitation

QFIVa.

Current Year

by Start of 2023

F.IV.a Does the utility h	ave explicit thresholds	s for activating a PS	SPS?	
	i. Utility has no clearly expl a threshold for PSPS activa		icit policies and the thresholds S is activated as a	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 denergize specific circuits upon detection of damaged condition of electrical lines and equipment, or contact with foreign objects
Current Year	0			0
by Start of 2023				0
F.IV.b Which of the folloall that apply			ii. A partially aut	tomated system which recommends th PSPS should be activated and is
Current Year		E opinion ✓		validated by SMEs
by Start of 2023		•	✓	
QFIVc. F.IV.c Under which circ	i. Upon detection of ii	itility de-energize c i. When circuit presents a safety risk to suppression or other personnel	ircuits? Select iii. When equipme come into contact foreign objects prignition risk	ent has ct with posing iv. Additional reasons not
Current Year	electric equipment	or other personner	Ignition has	IISIEU
by Start of 2023	▼	♥	▼	

•

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F.V Protocols for PSPS re-energization

Capability 31

QFV	Va.	
F.V.a	a Is there a process for inspecting de-energized sections of the grid prior to re-	energization?
	iii. Existi	ing process for accu

	i. Inadequate process for inspecting de- energized sections of the grid prior to re- energization	ii. Existing process for accurately inspecting de- energized sections of the grid prior to re- energization	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		•
by Start of 2023			•

QFVb

F.V.b How automated is the process for inspecting de-energized sections of the grid prior to reenergization?

<u>Clarification</u>: For explanation 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. Manual process, not automated at all	ii. Partially automated (<50%)	iii. Mostly automated (≥50%)	iv. Primarily automated, minimal manual inputs
Current Year	0	0	•	
by Start of 2023		\circ	•	

QFVc.

F.V.c What is the average amount of time that it takes you to re-energize your grid from a PSPS once weather has subsided to below your de-energization threshold?

	i. Longer than 24 hours	ii. Within 24 hours	iii. Within 18 hours	iv. Within 12 hours	v. Within 8 hours
Current Year		\circ		•	\circ
by Start of 2023					•

OFVd

F.V.d What level of understanding of probability of ignitions after PSPS events does the utility have across the grid?

	i. No probability estimate of after event ignitions	ii. Some probability estimates exist	iii. Utility has accurate quantitative understanding of ignition risk following re- energization, by asset, validated by historical data and near misses
Current Year	0	•	0
y Start of 2023	0		•

F.VI Ignition prevention and suppression

Capability 32

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\sim	r	\ /I	_
w		VI.	\boldsymbol{H}

F.VI.a Does the utility have defined policies around the role of workers in suppressing ignitions?

	i. Utility has no policies governing what crews' roles are in suppressing ignitions	ii. Utilities have explicit policies about the role of crews at the site of ignition	iii. Utilities have explicit policies about the role of crews, including contractors and subcontractors , at the site of ignition
Current Year	0		•
by Start of 2023		0	•

QFVIb.

F.VI.b What training and tools are provided to workers in the field?

	i. Crews are untrained	ii. Training and communications tools are provided to immediately report ignitions caused by workers or in immediate vicinity of workers	iii. All criteria in option (ii) met; In addition, suppression tools and training to suppress small ignitions caused by workers or in immediate vicinity of workers are provided	iv. All criteria in option (iii) met; In addition, communication tools function without cell reception and training by suppression professionals is provided	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					•

QFVIc.

F.VI.c In the events where workers have encountered an ignition, have any Cal/OSHA reported injuries or fatalities occurred in in the last year?

<u>Clarification</u>: For this year, please identify whether any major injuries or fatalities have occurred in 2020. For three years from now, please specify whether you think there is a chance that major injuries or fatalities could occur in 2023.

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

QFVId.

F.VI.d Does the utility provide training to other workers at other utilities and outside the utility industry on best practices to minimize, report and suppress ignitions?

<u>Clarification</u>: An example of workers outside utility industry might be workers at a vegetation management company who prune trees near utility equipment

	i. No		ii. Yes
Current Year	0		•
y Start of 2023	0		
G. Doto er			
G. Data g	overnance		
GI.			
	ection and cur	ration	
Capability 33			
Q <i>Gla.</i> 3 La Does the utility ha	ove a centralized database	of situational, operational, a	and rick data?
Clarification: Question is		alizes most of its situational, op	
single database			
	i. No		ii. Yes
rrent Year	0		•
Start of 2023			•
QGIb.			
	o use advanced analytics ata to make operational an	on its centralized database of investment decisions?	of situational,
Clarification: In this case	, advanced analytics refers t	to analysis integrating different	
	n operational or investment	create a detailed, quantitative a decisions	and noilstic picture of
		ii. Yes, but only for short term	iii. Yes, for both short term and
	i. No	decision making	long-term decision making
urrent Year	0	0	•
Start of 2023		0	
QGlc.			
S.I.c Does the utility co stations, etc.?	ollect data from all sensor	ed portions of electric lines,	equipment, weather
tations, etc.:			
	i. No		ii. Yes
urrent Year	0		•
Start of 2023			

	i. No		ii. Yes
Current Year	0		•
y Start of 2023	O		•
QGle. G.I.e Does the utility id	entify highest priority addition	onal data sources to	improve decision making?
	i. No	ii. Yes	iii. Yes, with plans to incorporate these into centralized database of situational, operational and risk da
Current Year	0	0	•
y Start of 2023	0	0	•
Q <i>Glf.</i> G.I.f Does the utility sh California and beyond?	are best practices for databa	ise management an	d use with other utilities in iii. Yes, with specific processes to
	i. No	ii. Yes	so in place
Current Year			•
y Start of 2023		0	•
	nsparency and a	analytics	
Capability 34 QGIIa. G.II.a Is there a single oprocesses?		-related data and al	gorithms, analyses, and data
QGIIa. G.II.a Is there a single o		-related data and al	gorithms, analyses, and data
QGIIa. G.II.a Is there a single o	document cataloguing all fire	-related data and al	
QGIIa. G.II.a Is there a single o processes?	locument cataloguing all fire	e-related data and al	ii. Yes
QGIIa. G.II.a Is there a single of processes? Current Year y Start of 2023	i. No i. ation of the sources, cleaning		ii. Yes

by Start of 2023

QGIIc.

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?

	i. Analyses, algorithms, and data processing are not documented	ii. Analyses, algorithms, and data processing are documented	iii. Analyses, algorithms, and data processing are documented and explained	iv. Analyses, algorithms, and data processing are documented and explained, including sensitivities for each type of analysis and data
Current Year	0	•	0	0
by Start of 2023	0			

QGIId.

G.II.d Is there a system for sharing data in real time across multiple levels of permissions?

	No system capable of sharing data in real time across multiple levels of permissions	ii. System is capable of sharing across at least two levels of permissions, including a.) utility- regulator permissions, and b.) first responder permissions	iii. System is capable of sharing across at least three levels of permissions, including a.) utility-regulator permissions, b.) first responder permissions, and c.) public data sharing
Current Year	0	0	•
by Start of 2023			

QGIIe.

G.II.e Are the most relevant wildfire related data algorithms disclosed?

<u>Clarification</u>: Question is asking whether <u>all</u> algorithms or decision making process used to inform decision making around investment choices, risk mitigation choices, and emergency response are disclosed

	i. No	ii. Yes, disclosed to regulators and other relevant stakeholders upon request	iii. Yes, disclosed publicly in WMP upon request	iv. Disclosed publicly as information becomes available (regardless of regulatory request)
Current Year	0	0	0	•
by Start of 2023				•

GIII.

G.III Near-miss tracking

Capability 35

QGIIIa.

G.III.a Does the utility track near miss data for all near misses with wildfire ignition potential?

Clarification: 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
rrent Year	0	•
tart of 2023		•
GIIIb.		
	data captured, is the utility able to stracteristics, fuel loads, and moistu	
	: No	:: <i>V</i>
ent Year	i. No	ii. Yes
	0	•
tart of 2023	0	•
GIIIc. III.c Does the utility captuta?	ure data related to the specific mod	e of failure when capturing near- miss
	i. No	ii. Yes
ent Year	0	•
Gilld. Ill.d is the utility able to p		•
Gilld. Ill.d is the utility able to p	oredict the probability of a near mis	● ● s in causing an ignition based on a set
GIIId. Blind Is the utility able to percent characteristics?		● ● s in causing an ignition based on a set ii. Yes
art of 2023 GIIId. III.d Is the utility able to pevent characteristics?	oredict the probability of a near mis	● ● s in causing an ignition based on a set
GIIId. III.d Is the utility able to pevent characteristics?	predict the probability of a near mis	● ● s in causing an ignition based on a set ii. Yes
GIIId. III.d Is the utility able to pevent characteristics? ent Year tart of 2023	oredict the probability of a near mis	s in causing an ignition based on a set ii. Yes
rent Year start of 2023	i. No	s in causing an ignition based on a set ii. Yes
GIIId. Bill.d Is the utility able to pevent characteristics? ent Year tart of 2023	i. No	● s in causing an ignition based on a set ii. Yes ● ●
GIIId. Bill.d Is the utility able to pevent characteristics? ent Year tart of 2023	i. No	es in causing an ignition based on a set ii. Yes o o o iid operation protocols in real time?

GIV.

G.IV Data sharing with the research community Capability 36

Current Year by Start of 2023 Call Vb. Clarification: Here, 'research' broadly refers to collaborative research (e.g. with other utilities, academics, or the government) or to independent research where the findings are made available outside parties (such as academics, other utilities, the government or the public). Clarification: Here, 'research' broadly refers to collaborative research (e.g. with other utilities, academics, or the government) or to independent research where the findings are made available outside parties (such as academics, other utilities, the government or the public). Current Year			ii. Utility make disclosures, but		iii. Utility makes required disclosures and shares data	
QGIVb. QGIVc. QG		i. Utility fails to make disclosures				
GIVb. G.IV.b Does the utility in engage in research? Clarification: Here, 'research' broadly refers to collaborative research (e.g. with other utilities, academics, or the government) or to independent research where the findings are made available outside parties (such as academics, other utilities, the government or the public). I. Utility does not participate in collaborative research independent and participates in both independent and participates in collaborative research independent and collaborative research where possible, is abstracted and applied to other utilities. Current Year	Current Year	0			•	
G.IN.b Does the utility in engage in research? Clarification: Here, "research' broadly refers to collaborative research (e.g. with other utilities, academics, or the government) or to independent research where the findings are made available outside parties (such as academics, other utilities, the government or the public). Interpretation	by Start of 2023	0	0		•	
Light does not participate in both independent and collaborative research collaborative research where possible, is abstracted and applied to other utilities Current Year by Start of 2023 Lightlity ignited wildfires i. Utility ignited wildfires ii. Utility ignited wildfires and risk reduction initiatives iii. Utility ignited wildfires and risk reduction initiatives iii. None of the above Current Year by Start of 2023 Lightlity promote best practices based on latest independent scientific and operational research? Clarification: Promoting best practices could take various forms — for example, writing and publicly releasing a report or detailing results achieved when a new method of tool was piloted, including which techniques were more or less effective i. No ii. No iii. Ves Current Year	G.IV.b Does the utility in Clarification: Here, 'reseathe government) or to income	arch' broadly refers to collabo dependent research where the	e findings are m			
QGIVC. G.IV.c What subjects does utility research address? i. Utility ignited wildfires ii. Utility ignited wildfires and risk reduction initiatives iii. None of the above Current Year by Start of 2023 QGIVd. G.IV.d Does the utility promote best practices based on latest independent scientific and operational research? Clarification: Promoting best practices could take various forms – for example, writing and publicly releasing a report or detailing results achieved when a new method of tool was piloted, including which techniques were more or less effective i. No ii. Yes Current Year		participate in ii. Utilit		participates in both independent and	participates in both independent and collaborative research, and ensures that research, where possible, is abstracted and applied to other	
QGIVC. G.IV.c What subjects does utility research address? ii. Utility ignited wildfires iii. Utility ignited wildfires and risk reduction initiatives iii. None of the above Current Year by Start of 2023 QGIVd. G.IV.d Does the utility promote best practices based on latest independent scientific and operational research? Clarification: Promoting best practices could take various forms – for example, writing and publicly releasing a report or detailing results achieved when a new method of tool was piloted, including which techniques were more or less effective i. No ii. Yes Current Year	Current Year	0		\circ	•	
G.IV.c What subjects does utility research address? i. Utility ignited wildfires ii. Utility ignited wildfires and risk reduction initiatives iii. None of the above Current Year by Start of 2023 QGIVd. G.IV.d Does the utility promote best practices based on latest independent scientific and operational research? Clarification: Promoting best practices could take various forms – for example, writing and publicly releasing a report or detailing results achieved when a new method of tool was piloted, including which techniques were more or less effective i. No ii. Yes Current Year	by Start of 2023				•	
QGIVd. G.IV.d Does the utility promote best practices based on latest independent scientific and operational research? Clarification: Promoting best practices could take various forms – for example, writing and publicly releasing a report or detailing results achieved when a new method of tool was piloted, including which techniques were more or less effective i. No ii. Yes Current Year						
QGIVd. G.IV.d Does the utility promote best practices based on latest independent scientific and operational research? Clarification: Promoting best practices could take various forms – for example, writing and publicly releasing a report or detailing results achieved when a new method of tool was piloted, including which techniques were more or less effective i. No ii. Yes Current Year	·	- 	ii. Utility ignited w		iii. None of the above	
G.IV.d Does the utility promote best practices based on latest independent scientific and operational research? Clarification: Promoting best practices could take various forms – for example, writing and publicly releasing a report or detailing results achieved when a new method of tool was piloted, including which techniques were more or less effective i. No ii. Yes Current Year	G.IV.c What subjects d	- 	ii. Utility ignited w reduction i	nitiatives	iii. None of the above	
Current Year	G.IV.c What subjects d	- 	ii. Utility ignited w reduction i	nitiatives	0	
	Current Year by Start of 2023 QGIVd. G.IV.d Does the utility presearch? Clarification: Promoting breport or detailing results	i. Utility ignited wildfires promote best practices base pest practices could take varie achieved when a new method	ii. Utility ignited w reduction i	nitiatives dependent scient example, writing	tific and operational and publicly releasing a which techniques were	
	Current Year by Start of 2023 QGIVd. G.IV.d Does the utility presearch? Clarification: Promoting breport or detailing results more or less effective	i. Utility ignited wildfires promote best practices base pest practices could take various achieved when a new method i. No	ii. Utility ignited w reduction i	nitiatives dependent scient example, writing	tific and operational and publicly releasing a which techniques were	
	Current Year by Start of 2023 QGIVd. G.IV.d Does the utility presearch? Clarification: Promoting breport or detailing results more or less effective Current Year	i. Utility ignited wildfires promote best practices base pest practices could take varie achieved when a new metho	ii. Utility ignited w reduction i	nitiatives dependent scient example, writing	tific and operational and publicly releasing a which techniques were ii. Yes	

Η.

H.I Scenario analysis across different risk levels

Capability 37

Q	ŀ	1	la	

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

	Utility does not project proposed initiatives or costs across different levels of risk scenarios	ii. Utility provides an accurate high- risk reduction and low risk reduction scenario, and the projected cost and total risk reduction potential	iii. Utility provides an accurate high- risk reduction and low risk reduction scenario, in addition to their proposed scenario, and the projected cost and total risk reduction potential
Current Year	0	0	•
by Start of 2023	0		•

QHIb.

H.I.b For what level of granularity is the utility able to provide projections for each scenario?

	i. Territory-level or greater	ii. Region level	iii. Circuit level	iv. Span level	v. Asset level
Current Year	0	•	\circ	\circ	
by Start of 2023			•	\bigcirc	

QHIc.

H.I.c Does the utility include a long term (e.g., 6-10 year) risk estimate taking into account macro factors (climate change, etc.) as well as planned risk reduction initiatives in its scenarios?

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

QHId.

H.I.d Does the utility provide an estimate of impact on reliability factors in its scenarios? Clarification: Reliability factors here refer to factors impacting reliability of service to customers

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

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

Capability 38

	i.	. No	i	i. Yes	
Current Year		\circ		•	
by Start of 2023		0		•	
QHIIb. H.II.b What initiative	s are captured in the r	anking of risk spend e	efficiency?		
	i. Common commercial initiatives	ii. All commercial initiatives	iii. All commercial initiatives and emerging initiatives	iv. None of the above	
Current Year	0	0	•	0	
QHIIc. H.II.c Does the utility	include figures for pro umenting all assumpti				
QHIIc. H.II.c Does the utility initiative, clearly doc	umenting all assumpti	ons (e.g. useful life, d	liscount rate, etc.)	?	
QHIIc. H.II.c Does the utility initiative, clearly doc	umenting all assumpti	ions (e.g. useful life, d	liscount rate, etc.)	?	
H.II.c Does the utility initiative, clearly doc Current Year by Start of 2023 QHIId. H.II.d Does the utility	umenting all assumpti	ons (e.g. useful life, d	in each particular	? i. Yes i. i. Yes ii. ii. ii. iii. iii. iii. iii. iii.	
QHIIc. H.II.c Does the utility initiative, clearly doc Current Year by Start of 2023 QHIId. H.II.d Does the utility	provide an explanation	ons (e.g. useful life, d	in each particular ty of service to custo iii. Nove	? i. Yes i. i. Yes ii. ii. ii. iii. iii. iii. iii. iii.	
QHIIc. H.II.c Does the utility initiative, clearly doc Current Year by Start of 2023 QHIId. H.II.d Does the utility	provide an explanation factors here refer to factors	ons (e.g. useful life, d	in each particular ty of service to custom ty of the expected estimation in risk	i. Yes initiative? omers ves, including the expected erall reduction in risk and ates of impact on reliability	

i. Territory-level or greater ii. Region level iii. Circuit level iv. Span level v. Asset level

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

Current Year						\bigcirc
by Start of 2023		\circ			\bigcirc	0
HIII.						
H.III Process	for determ	nining	risk s	pend e	ffici	ency of
vegetation m		•		•		•
Capability 39		· IIIII				
Capability 33						
QHIIIa.						
H.III.a How accurate of	a risk spend efficie	ncy calcula	ition can th	ne utility prov	vide?	
	ı					
	i. Utility has no clear understanding of the	ii. Utility has	an accurate	iii. Utility has ac	curate	iv. Utility has accurate quantitative understanding
	relative risk spend efficiency of various	relative und	erstanding of effectiveness	quantitativ understanding of	ve	of cost, including sensitivities and
	clearances and types of	to produce a	reliable risk	effectiveness to p	roduce a	effectiveness to produce a
	vegetation management initiatives	-	fficiency nate	reliable risk s efficiency esti		reliable risk spend efficiency estimate
Current Year		(\supset	•		\bigcirc
by Start of 2023		(\supset			
H.III.b At what level car	i. Less granular than regional, or not at all	ii. Regional	iii. Circui	t-based iv. s	Span-base	ed v. Asset-based
Current Year	0	•)		0
by Start of 2023						
QHIIIc.						
H.III.c How frequently a	are estimates update	ed?				
	i. Never	ii.	Less frequent	y than annually	iii. An	nually or more frequently
Current Year	0					•
by Start of 2023						•
QHIIId. H.III.d What vegetation	management initiat	ives does 1	he utility i	nclude within	ite ova	aluation?
minu vinat vegetation	manayement millat	1469 MO69 I	in e utility li	IICIUUG WILIIII	1113 646	aidation :
	. None				:. AU	v. All, supported by
Current Year	i. None	ii. Some	iii. M		iv. All	independent testing
oy Start of 2023					•	
Dy Glait OI 2023				7		•

0	Н	11	1	e	

H.III.e Can the utility evaluate risk reduction synergies from combination of various initiatives?

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

HIV.

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

Capability 40

QHIVa.

H.IV.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 hardening initiatives	ii. Utility has an accurate relative understanding of the cost and effectiveness to produce a reliable risk spend efficiency estimate	iii. Utility has accurate quantitative understanding of cost and effectiveness to produce a reliable risk spend efficiency estimate	iv. Utility has accurate quantitative understanding of cost, including sensitivities and effectiveness to produce a reliable risk spend efficiency estimate
Current Year			•	0
by Start of 2023		\bigcirc	•	

QHIVb.

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

	i. Less granular than regional, or not at all	ii. Regional	iii. Circuit-based	iv. Span-based	v. Asset-based
Current Year	0				
by Start of 2023				•	

QHIVc.

H.IV.c How frequently are estimates updated?

	i. Never	ii. Less frequently than annually	iii. Annually or more frequently
Current Year	0		•
by Start of 2023			•

QHIVd.

H.IV.d What grid hardening initiatives are included in the utility risk spend efficiency analysis?

	i. None h	ii. Some commercially available grid ardening initiatives	iii. Most commercially available grid hardening initiatives	iv. All commercia available grid hardening initiativ	those initiatives
Current Year	0	\bigcirc			•
by Start of 2023	0	0	0	0	•
QHIVe. H.IV.e Can the utility e	valuate risk reduct	ion effects fro	m the combina	tion of various	initiatives?
		i. No		ii. Yo	es
Current Year		•		C)
by Start of 2023				•	
HV. Portfolia	o-wide init	iative al	location	method	ology
Capability 41 QHVa.	oog the utility alloc	oto conital to i	nitiativas bass	d on rick onen	d officionay
Capability 41 QHVa. H.V.a To what extent do	oes the utility alloc	ate capital to i		·	·
Capability 41 QHVa. H.V.a To what extent do	i. Utility does not base capital allocation on RS	ii. Utility co e estimates of F	iii. / estimate are us capital catego nsiders choose t SE when manage	Accurate RSE	iv. Accurate RSE estimates for all initiatives are used to determine capital allocation across portfolio (e.g. prioritizing between vegetation management and grid hardening)
Capability 41 QHVa. H.V.a To what extent do (RSE)?	i. Utility does not base	ii. Utility co e estimates of F	iii. / estimate are us capital catego nsiders choose t SE when manage	Accurate RSE es for all initiatives ed to determine allocation within ries only (e.g. to he best vegetation ment management	iv. Accurate RSE estimates for all initiatives are used to determine capital allocation across portfolio (e.g. prioritizing between vegetation management and grid
Capability 41 QHVa. H.V.a To what extent do (RSE)?	i. Utility does not base	ii. Utility cor e estimates of F SE allocating o	iii. / estimate are us capital catego nsiders choose t SE when manage	Accurate RSE es for all initiatives ed to determine allocation within ries only (e.g. to he best vegetation ment management nd initiative)	iv. Accurate RSE estimates for all initiatives are used to determine capital allocation across portfolio (e.g. prioritizing between vegetation management and grid
Capability 41 QHVa. H.V.a To what extent do (RSE)? Current Year by Start of 2023	i. Utility does not base capital allocation on RS	ii. Utility con estimates of FE allocating	iii. / estimate are us capital catego siders choose t SE when manage capital a	Accurate RSE es for all initiatives ed to determine allocation within ries only (e.g. to he best vegetation ment management nd initiative)	iv. Accurate RSE estimates for all initiatives are used to determine capital allocation across portfolio (e.g. prioritizing between vegetation management and grid hardening)
Capability 41	i. Utility does not base capital allocation on RS	ii. Utility content estimates of FEEE allocating of the second of the se	iii. / estimate are us capital catego siders choose t SE when manage capital a	Accurate RSE es for all initiatives ed to determine allocation within ries only (e.g. to he best vegetation ment management nd initiative) ting RSE estim nitiative, iii. Specifient and at the ass will be specific a	iv. Accurate RSE estimates for all initiatives are used to determine capital allocation across portfolio (e.g. prioritizing between vegetation management and grid hardening)
Capability 41 QHVa. H.V.a To what extent do (RSE)? Current Year by Start of 2023	i. Utility does not base capital allocation on RS	ii. Utility content estimates of FEEE allocating of the second of the se	iii. A estimate are us capital categoral categoral manage capital are capital ecific information by inding state of equipment attion where initiative	Accurate RSE es for all initiatives ed to determine allocation within ries only (e.g. to he best vegetation ment management nd initiative) ting RSE estim nitiative, iii. Specifient and at the ass will be specific a	iv. Accurate RSE estimates for all initiatives are used to determine capital allocation across portfolio (e.g. prioritizing between vegetation management and grid hardening) nates? fic information by initiative set level, including state of assets and location where

	i. Utility does not verify estimates		estimates are verified by or experimental pilot data	and conf	r experimental pilot data irmed by independent or other utilities in CA
Current Year	0		•		
by Start of 2023			0		•
QHVd. H.V.d Does the utility to making spending decis		on impact on sa	afety, reliability, and	other pri	orities when
	i	. No		ii. Yes	
Current Year		\circ		•	
by Start of 2023					
QHVla.	At literal and a second assets	alvata tha affi		::4:-4:	-2
H.VI.a How does the u	tility develop and ev	aluate the effic	acy of new wildfire	initiatives	S?
	i. No program in place	ii. Utility uses pilo measures direct re in ignition eve	eduction in ignition even	reduction ignits and ignited its and ignited its and ignited its and ignited its analysis is a constant in the interest in the	iv. Utility uses pilots, llowed by in-field testing measuring reduction in gnition events and near- misses.
Current Year	0		•		0
y Start of 2023			•		
QHVIb. H.VI.b How does the ut Clarification: TCO is tota operation and maintenal evaluation of risk spend	al cost of ownership ovnce. In this question, t	er the expected otal cost of own	useful life of an asse ership refers to the s	et, includir	ng purchase,
	i. No prog	ram in place	ii. Utility ι	ises total co	st of ownership
urrent Year		0		•	
y Start of 2023		0		•	
QHVIc. H.VI.c At what level of	granularity does the	utility measur	e the efficacy of ne	w wildfire	initiatives?
	i. None ii	. Entire territory	iii. Circuit	iv. Span	v. Asset
Current Year	0	0	•	0	0
y Start of 2023	0				

iii. RSE estimates are verified by

	L		١,	1	_	1
Q	Г	7	v	1	u	

H.VI.d Are the reviews of innovative initiatives audited by independent parties?

<u>Clarification</u>: Reviews here refer to findings evaluating innovative initiatives which would assist another utility in making a decision about whether to implement that initiative and help them determine how to do so effectively. Criteria might include but are not limited to the following: technical feasibility, effectiveness, risk spend efficiency, ease of implementation and comparison to alternative options

	i. None	ii. Yes
Current Year	•	0
by Start of 2023	0	•

QHVIe.

H.VI.e Does the utility share the findings of its evaluation of innovative initiatives with other utilities, academia, and the general public?

	i. None	ii. Yes
Current Year	0	•
by Start of 2023		•

1.

I. Emergency planning and preparedness

11

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

Capability 43

QIIa.

I.I.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		\circ	•
by Start of 2023	\circ	\circ	•

QIIb.

	i. No	ii. Yes
Current Year	0	•
y Start of 2023		•
QIIc.		
•	unding events or multiple simultane	ous disasters considered in the
	i. No	ii. Yes
Current Year	0	•
y Start of 2023		•
QIId.		
	with disaster and emergency prepar RE, Fire Safe Councils, etc.)?	redness plans of other relevant
stakenolders (e.g., OAL I III	CL, I lie Sale Soulichs, etc.):	
	i. No	ii. Yes
urrent Year	\bigcirc	•
Qlle. I.e Does the utility take a	leading role in planning, coordinating	•
Qlle. I.I.e Does the utility take a	leading role in planning, coordinating	and integrating plans across
Qlle. I.I.e Does the utility take a stakeholders?	leading role in planning, coordinatin	eng, and integrating plans across
Q//e. I.I.e Does the utility take a stakeholders?	leading role in planning, coordinatin	ng, and integrating plans across ii. Yes
Q//e. I.I.e Does the utility take a stakeholders?	leading role in planning, coordinatin	eng, and integrating plans across
Q/le. I.I.e Does the utility take a stakeholders? urrent Year y Start of 2023	leading role in planning, coordinatin	ng, and integrating plans across ii. Yes
Q//e. I.l.e Does the utility take a stakeholders? urrent Year y Start of 2023	leading role in planning, coordinating i. No	ng, and integrating plans across ii. Yes
Q//eI.e Does the utility take a stakeholders? urrent Year y Start of 2023	leading role in planning, coordinating i. No	ng, and integrating plans across ii. Yes
Q//e. I.l.e Does the utility take a stakeholders? urrent Year y Start of 2023	leading role in planning, coordinating i. No	ng, and integrating plans across ii. Yes
Qlle. I.I.e Does the utility take a stakeholders? urrent Year y Start of 2023	leading role in planning, coordinating i. No	ng, and integrating plans across ii. Yes •
Q//e. I.I.e Does the utility take a stakeholders? urrent Year y Start of 2023	leading role in planning, coordinating i. No	ng, and integrating plans across ii. Yes •
Q//e. I.I.e Does the utility take a stakeholders? urrent Year y Start of 2023 III. I.II Plan to rest Capability 44	leading role in planning, coordinating i. No	ng, and integrating plans across ii. Yes •
Q//e. I.I.e Does the utility take a stakeholders? Furrent Year y Start of 2023 III. I.II Plan to rest Capability 44 Q///a. I.II.a Are there detailed and	leading role in planning, coordinating i. No	ng, and integrating plans across ii. Yes •
Q///e. I.I.e Does the utility take a stakeholders? urrent Year y Start of 2023 III. I.II Plan to rest Capability 44 Q///a. I.II.a Are there detailed and	leading role in planning, coordinating i. No	ii. Yes Outage
Q//e. I.e Does the utility take a stakeholders? urrent Year / Start of 2023 III. Plan to rest Capability 44 Q///a. I.II.a Are there detailed and outage?	i. No i. No core service after will diactionable procedures in place to re	ii. Yes ii. Yes o erestore service after a wildfire related
Stakeholders? Current Year y Start of 2023 III. I.II Plan to rest Capability 44 QIIIa.	i. No i. No core service after will diactionable procedures in place to r	ii. Yes dfire related outage restore service after a wildfire related ii. Yes

\circ	1	11	lh	
w		,,	\sim	

		i. No		ii. Yes	
Current Year		\circ		•	
by Start of 2023				•	
Q///c. I.II.c To what level	are procedures to re	store service aft	er a wildfire-rela	ted outage cust	omized?
	i. Territory-wide	ii. Region level	iii. Circuit level	iv. Span level	v. Asset leve
2			0	()	0
Jurrent Year					
			0	•	
oy Start of 2023 QIIId.	ized procedure to res	store service bas	0	• hy, vegetation, a	0
Q/I/Id. I.II.d Is the custom community needs?	ized procedure to res	store service bas	0	hy, vegetation, a	0
I.II.d Is the custom	ized procedure to res	store service bas	0	• hy, vegetation, a	0

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		•

I.III Emergency community engagement during and after wildfire

Capability 45

QIIIIa.

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		ng with referrals to er agencies
urrent Year	0		0		•
y Start of 2023	0		0		•
Q////b. I.III.b What percent o	of affected customer	s receive c	omplete details of av	/ailable informa	tion?
	i. ≤95% of customers	ii. >95% of customers		iv. >99% of customers	v. >99.9% of customers
urrent Year				\circ	•
y Start of 2023	0	\circ	0	0	•
Q////c. I.III.c What percent o information?	i. ≤99% of medical baseline customers	ii. >99% of med baseline custor	iii. >99.5% of dical medical baseline	iv. >99.9% of medical baseline customers	v. 100% of medical baseline customers
urrent Year	0				
y Start of 2023 QIIIId.		0		•	0
y Start of 2023 QIIIId.	utility assist where h	nelpful with		evant nks on none	0
y Start of 2023 Q////d. I.III.d How does the	utility assist where hrs?	nelpful with	ii. Through availability of relevacuation information and li	evant nks on none aster as	0
y Start of 2023 Q////d. I.III.d How does the coutages to customer	utility assist where here? i. Through availability evacuation information website and toll-free	nelpful with	ii. Through availability of relevacuation information and liwebsite and toll-free telephnumber, and assisting discresponse professionals	evant nks on none aster as	ted to power
y Start of 2023 Q////d. I.III.d How does the	utility assist where here? i. Through availability evacuation information website and toll-free	nelpful with	ii. Through availability of relevacuation information and liwebsite and toll-free telephnumber, and assisting discresponse professionals requested	evant nks on none aster as	ted to power
Q////d. I.III.d How does the coutages to customer current Year y Start of 2023	i. Through availability evacuation information website and toll-free number utility engage with or	nelpful with y of relevant and links on telephone ther emerg	ii. Through availability of relevacuation information and liwebsite and toll-free teleprounder, and assisting discresponse professionals requested ency management action ii. Utility engages with ot	evant nks on none aster as iii. No	ne of the above emergency has detailed and established protocols ing with emergency
Q////d. I.III.d How does the coutages to customer urrent Year y Start of 2023 Q////e. I.III.e How does the coutages	i. Through availability evacuation information website and toll-free number	nelpful with y of relevant and links on telephone ther emerg	ii. Through availability of relevacuation information and liwebsite and toll-free teleph number, and assisting discresponse professionals requested	evant nks on none aster as iii. No	ne of the above emergency has detailed and stablished protocols ing with emergency ment organizations
Q////d. I.III.d How does the coutages to customer urrent Year y Start of 2023 Q////e. I.III.e How does the coutages	i. Through availability evacuation information website and toll-free number utility engage with or	nelpful with y of relevant and links on telephone ther emerg	ii. Through availability of relevacuation information and liwebsite and toll-free teleprounder, and assisting discresponse professionals requested ency management action ii. Utility engages with ot	evant nks on none aster as iii. No	ne of the above emergency has detailed and established protocols ing with emergency

	i. No	ii. Yes
urrent Year	0	•
Start of 2023		•
IV.		
.IV Protocols i	n place to learn from	n wildfire events
Capability 46	•	
, ,		
QIIVa.	place to record the cuttoms of ome	rannay ayanta and to alaarly and
	place to record the outcome of eme ngs and potential process improver	
		". \
	i. No	ii. Yes
rrent Vear		
		•
QIIVb. IV.b Is there a defined pro-		•
Start of 2023 Q//Vb. IV.b Is there a defined pro-		•
Q//Vb. Is there a defined problan?		•
Start of 2023 Q//Vb. LIV.b Is there a defined problan?	cess and staff responsible for incor	porating learnings into emergendii. Yes
Q//VbIV.b Is there a defined problan? urrent Year v Start of 2023	cess and staff responsible for incor	porating learnings into emergen
QIIVbIV.b Is there a defined problem?	cess and staff responsible for incor	porating learnings into emergendii. Yes
Q/I/Vb. IV.b Is there a defined problem? urrent Year V Start of 2023	i. No	porating learnings into emergendii. Yes
Q/I/VbIV.b Is there a defined problan? urrent Year v Start of 2023 Q/I/VcIV.c Once updated based	i. No	porating learnings into emergendii. Yes
Q//Vb. IV.b Is there a defined problem? urrent Year Start of 2023	i. No on learnings and improvements, is teness?	porating learnings into emergendii. Yes ii. Yes o the updated plan tested using "d

I.IV.d Is there a defined process to solicit input from a variety of other stakeholders and incorporate learnings from other stakeholders into the emergency plan?

	i. No	ii. Yes
Current Year	0	•

I.V Processes for continuous improvement after wildfire and PSPS events

Capability 47

QIVa.

I.V.a Does the utility conduct an evaluation or debrief process after a wildfire?

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

QIVb

I.V.b Does the utility conduct a customer survey and utilize partners to disseminate requests for stakeholder engagement?

	i. No	ii. One or the other	iii. Both
Current Year	0	0	•
by Start of 2023			

QIVc.

I.V.c In what other activities does the utility engage?

	i. None	ii. Public listening sessions	iii. Debriefs with partners	iv. Public listening sessions, debriefs with partners, and others
Current Year	0	0	\circ	•
by Start of 2023			\circ	•

QIVd.

I.V.d Does the utility share with partners findings about what can be improved?

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

QIVe.

I.V.e Are feedback and recommendations on potential improvements made public?

	i. No	ii. Yes
rrent Year	0	•
Start of 2023		•
	onduct proactive outreach to local agenc n what can be improved?	es and organizations to solicit
	i. No	ii. Yes
rrent Year	0	•
Start of 2023		•
IVg. I.g Does the utility I om all stakeholders	have a clear plan for post-event listening a	and incorporating lessons learned
	i. No	ii. Yes
ent Year	i. No	ii. Yes
Start of 2023		
Start of 2023 IVh. Ich Does the utility to arification: Recomme	0	ons and report upon their impact? n customers, local agencies,
Start of 2023 IVh. I.h Does the utility to arification: Recomme ganizations and other	rack the implementation of recommendate endations here refer to recommendations from r stakeholders received following a wildfire or	ons and report upon their impact? n customers, local agencies, PSPS event
IVh. V.h Does the utility to larification: Recomme ganizations and other	rack the implementation of recommendation and attendations here refer to recommendations from the stakeholders received following a wildfire of it. No	ons and report upon their impact? n customers, local agencies, PSPS event ii. Yes
clarification: Recomme rganizations and other rganizations and other rrent Year Start of 2023 Vi. Does the utility h	rack the implementation of recommendation and attendations here refer to recommendations from the stakeholders received following a wildfire of it. No	ons and report upon their impact? n customers, local agencies, PSPS event ii. Yes o o ldfires in other the territory of other
IVh. I.h Does the utility to larification: Recommerganizations and other rent Year Start of 2023 IVi. I.i Does the utility he tilities and states to	rack the implementation of recommendations and attions here refer to recommendations from stakeholders received following a wildfire of i. No	ons and report upon their impact? n customers, local agencies, PSPS event ii. Yes o o ldfires in other the territory of other
Start of 2023 V/Vh. V.h Does the utility to larification: Recommerganizations and other rent Year Start of 2023 V.i. Does the utility h	rack the implementation of recommendations and attions here refer to recommendations from stakeholders received following a wildfire of i. No	ons and report upon their impact? n customers, local agencies, PSPS event ii. Yes o o ldfires in other the territory of othernt?

J. Stakeholder cooperation and community engagement

Current Year

J.I Cooperation and best practice sharing with other utilities

Capability 48

	i. No	ii. Yes, from other California utilities	ii. Yes, from other global utilitie
Current Year		0	•
by Start of 2023		0	•
QJIb. J.I.b Does the utility suc	cessfully adopt and implen	ment best practices identifi	ed from other utilities?
	i. No		ii. Yes
Current Year	0		•
QJIc.	·	and lessons learned in a cor	nsistent format?
•	k to share best practices a	ınd lessons learned in a cor	nsistent format?
QJIc. J.I.c Does the utility see	k to share best practices an	and lessons learned in a cor	nsistent format? ii. Yes
QJIc.	k to share best practices an	and lessons learned in a cor	nsistent format?
QJIc. J.I.c Does the utility see Current Year by Start of 2023	k to share best practices and i. No	and lessons learned in a cor	nsistent format? ii. Yes
QJIc. J.I.c Does the utility see Current Year by Start of 2023 QJId. J.I.d Does the utility sha	k to share best practices and i. No		nsistent format? ii. Yes
QJIc. J.I.c Does the utility see Current Year by Start of 2023 QJId. J.I.d Does the utility sha	i. No		ii. Yes o edictable set of

i. No

ii. Yes

art of 2023 IIc. I.c. What percent of I	i. More than 5%	on-compliant wi	th utility initiativ iii. Less than 2%	es (e.g., vegetat	tion v. Less than 0.5%
ent Year tart of 2023 ///c. I.c What percent of I	i. More than 5%	on-compliant wi	iii. Less than 2%	es (e.g., vegetat	v. Less than 0.5%
art of 2023 IIc. I.c. What percent of I	andowners are no	•	th utility initiativ	0	tion
art of 2023		•	4h nállián iniáiní	0	li a n
		_			
		_			
ent Year					
		i. No		ii. Yes	
b Are there community orts to mitigate fire r			ningful resistanc	e is expected in	response to
IIIb.					
tart of 2023				•	
ent Year		0		•	
		i. No		ii. Yes	
///a. I.a Does the utility had ationship with local o		ctionable plan to	o develop or mai	ntain a collabor	rative
Capability 49					
II Engagei		commu	nities on	utility wi	ldfire
	I				
tart of 2023		0		•	
ent Year		i. No		ii. Yes	
f Has the utility impl sure local applicabili		d process for te	esting lessons le	arned from othe	er utilities to
llf.					

	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			•	
QJIIe. J.II.e Does the utility h >90% of the population cooperative relationsh	n in HFTD areas (e.g. by being rec	ognized by othe		
		i. No		ii. Yes	
Current Year		0		•	
by Start of 2023		0			
specify whether you exp	pect the question to	i. No	3.	ii. Yes	
y Start of 2023					
JIII.	4	LED	I A EN	. 1.0.	
J.III Engage Capability 5 QJIIIa. J.III.a Can the utility p Proficiency (LEP) and	rovide a plan to p	artner with orga onal Needs (AFN i. No	nizations repres	enting Limited	
J.III Engage Capability 5 QJIIIa. J.III.a Can the utility p Proficiency (LEP) and	<i>O</i> provide a plan to p	artner with orga onal Needs (AFN i. No	nizations repres	enting Limited	
J.III Engage Capability 56 QJIIIa. J.III.a Can the utility p	<i>O</i> provide a plan to p	artner with orga onal Needs (AFN i. No	nizations repres	enting Limited	
J.III Engage Capability 5 QJIIIa. J.III.a Can the utility p Proficiency (LEP) and	orovide a plan to p Access & Function	artner with orga onal Needs (AFN i. No O O partnerships cre communities?	nizations repres) communities?	enting Limited ii. Yes	English
J.III Engage Capability 56 QJIIIa. J.III.a Can the utility p Proficiency (LEP) and Current Year by Start of 2023 QJIIIb. J.III.b Can the utility o	orovide a plan to p Access & Function	artner with orga onal Needs (AFN i. No	nizations repres) communities?	enting Limited ii. Yes o o r implementing	English

		minimum value of the state of t	ation activities:
ability to interact with a	nd prepare LEP & AFN co	3	
	i. No		ii. Yes
Current Year			•
by Start of 2023	0		•
QJIIId. J.III.d Does the utility herisk to LEP & AFN commons.		odated action plan further re	duce wildfire and PSPS
	i. No		ii. Yes
Current Year	0		•
by Start of 2023			•
J.IV. Collabo Capability 51	ration with em	ergency respor	nse agencies
Capability 51 QJIVa.		ergency respon	
Capability 51 QJIVa.	erative model between the i. Utility does not sufficiently cooperate with suppression		
Capability 51 QJIVa. J.IV.a What is the coop	erative model between the i. Utility does not sufficiently	ii. Utility cooperates with suppression agencies by notifying	iii. Utility cooperates with suppression agencies by working cooperatively with them to detection ignitions, in addition to notifying
Capability 51 QJIVa.			•
Capability 51 QJIVa. J.IV.a What is the coop	erative model between the i. Utility does not sufficiently cooperate with suppression	ii. Utility cooperates with suppression agencies by notifying	iii. Utility cooperates with suppression agencies by worki cooperatively with them to det ignitions, in addition to notifyir them of ignitions as needed
Capability 51 QJIVa. J.IV.a What is the coop	erative model between the i. Utility does not sufficiently cooperate with suppression	ii. Utility cooperates with suppression agencies by notifying	iii. Utility cooperates with suppression agencies by workir cooperatively with them to deteignitions, in addition to notifying them of ignitions as needed
Capability 51 QJIVa. J.IV.a What is the coop Current Year by Start of 2023	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 workin cooperatively with them to dete ignitions, in addition to notifying them of ignitions as needed
Capability 51 QJIVa. J.IV.a What is the coop Current Year by Start of 2023 QJIVb.	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 dete ignitions, in addition to notifying them of ignitions as needed

QJIVc.

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

i. No

by Start of 2023

ii. Yes

 \bigcirc

by Start of 2023	0		•
QJIVd. J.IV.d Does the utility	communicate fire paths to	the community as requeste	ed?
	i. No		ii. Yes
Current Year	0		
by Start of 2023			•
QJIVe. J.IV.e Does the utility	work to assist suppression	crews logistically, where p	oossible?
	i. No		ii. Yes
Current Year	0		•
by Start of 2023			•
Stakeholders Capability 5	2 utility conduct substantial f i. Utility does not conduct fuel	ii. Utility conducts fuel	iii. Utility conducts fuel management
	management	management along rights of way	throughout service area
Current Year	0	•	0
by Start of 2023		0	•
QJVb. J.V.b Does the utility of	engage with other stakehold	ders as part of its fuel mana	agement efforts?

Current Year

	i. Utility does not coordinate with broader fuel management efforts by other stakeholders	ii. Utility shares fuel management plans with other stakeholders	iii. Utility shares fuel management plans with other stakeholders and works with other stakeholders conducting fuel management concurrently	iv. Utility shares fuel management plans with other stakeholders, and coordinates fuel management activities, including adjusting plans, to cooperate with other stakeholders state-wide to focus on areas that would have the biggest impact in reducing wildfire risk	v. Utility shares fuel management plans with other stakeholders, and pro-actively coordinates fuel management activities, including adjusting plans, to cooperate with other stakeholders statewide to focus on areas that would have the biggest impact in reducing wildfire risk	
Current Year	0	0	0	•	0	
by Start of 2023				•		
Current Year by Start of 2023		i. No		ii. Yes		
				•		
QJVd. J.V.d Does the utility fur	nd local groups (e.	g., fire safe cou	uncils) to suppo	rt fuel managen	nent?	
		i. No		ii. Yes		
Current Year y Start of 2023				•		
QJVe. J.V.e Do you have any ac	dditional commen	ts?		•		

Location: (32.779403686523, -117.13659667969)

Source: GeoIP Estimation



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.

VP Electric System Operations, SDG&E
(Signature and Title of Corporate Officer)