Wildfire Risk Governance Committee

March 2nd, 2022

Executive Sponsor(s): Sumeet Singh (EVP, Chief Risk Officer & Chief Safety Officer)

Author(s) & Affiliation: Andrew Abranches (Sr Director, Wildfire Risk Management)

3/2 WRG Decision Outcomes

Decision(s) and Result(s)

Workstream	Decision	Description	Vote Results	Result	Date of Approval	
EPSS	Approve EPSS enablement at R1 and R2 FPI during windy weather.	Add new wind speed, relative humidity, and dead fuel moisture 10hr criteria during R1 and R2 FPI conditions in addition to previously approved criteria and current posture.	<u>Yea</u> : Sumeet Singh, Stephen Cairns, Peter Kenny, Mark Quinlan, Wade Smith, Ronald Richardson <u>Abstain</u> : Joe Bentley	Approved	3/3/2022 Approval by Email	

Safety

Meeting Agenda



Earthquake

Duck, Cover, & Hold



Emergency Plan & Exit Strategy

Have a plan for yourself and your household



24/7 Nurse Care Line

If you experience a work-related discomfort or injury, call 1-888-449-7787 and notify your supervisor.



Date	3/2/2022					
Desired Outcomes	• Decision : Approve one of 2 options of EPSS Enablement [Vote by Email]					
	Meeting Agenda					
What – Conte	nt	Who - Facilitator(s)	Slides			
Agenda and Safe	ty Moment	-	1-3			
Review EPSS enablement at R1 & R2 FPI during windy weather		Scott Strenfel	4-11			
Open Action Items		-	12-30			
Appendix		-	31-37			

https://covid19.ca.gov/vaccines/ | https://myturn.ca.gov/ | https://www.vaccinateca.com/

DECISION: REVIEW OF EPSS ENABLEMENT AT R1 AND R2 FPI DURING WINDY WEATHER

Summary of Current Status and Follow ups

Summary from WFRGC (2/2/2022 meeting)

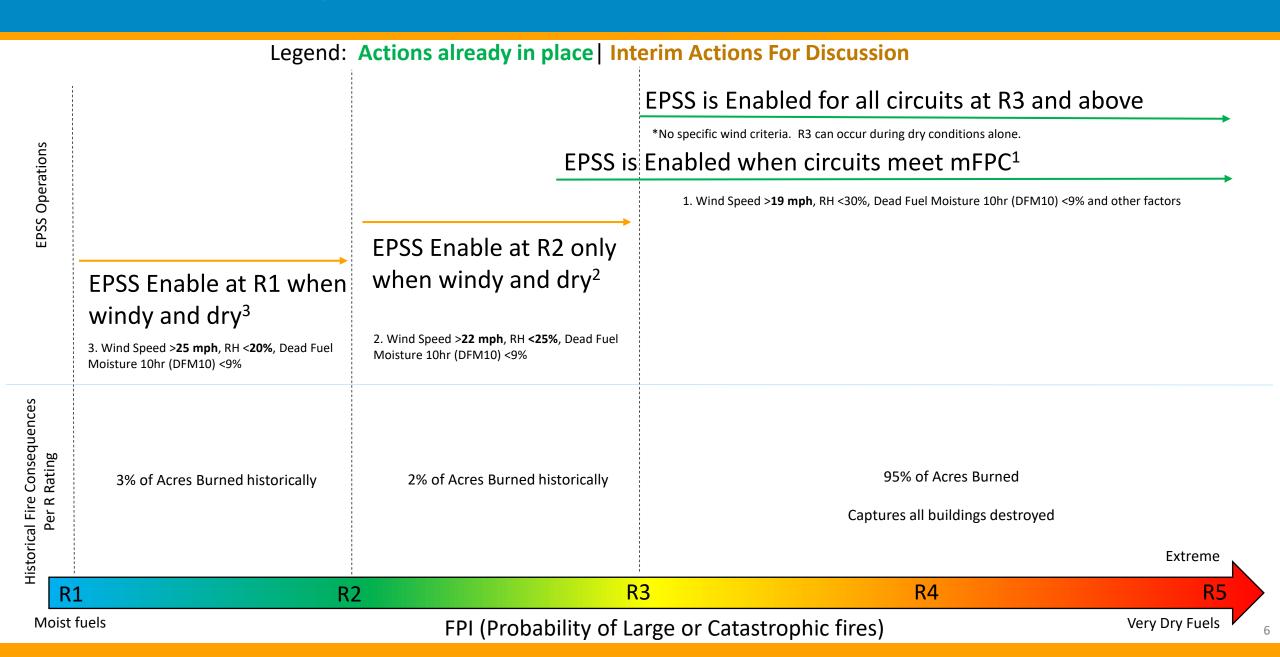
- (Approved) EPSS enabled when FPI is R3 or above
- (Approved) EPSS enabled when mFPC conditions are met
- (Follow-up from WFRGC & EOT) Evaluate EPSS enablement during R1 and R2 conditions when windy and dry RH

Fire	Date Started	Acres	Fatalities	Buildings Destroyed	FPI	Wind Speed Sustained (gust) MPH	RH	DFM 10hr	NWS Red Flag?	Federal GACC Fire Potential Forecast	NOAA SPC Fire Weather?
Colorado (Big Sur)	1/21/2022 5:19 PM	687	0	1	R2	35 (46)	21	8%	No	Green	No
Emerald Fire*	2/10/2022 4:00 AM	154	0	0	NA	22 (43)	17	6%	No	Yellow	No
Airport Fire*	2/16/2022 4:06 PM	4136	0	0	R3	28 (36)	28	7%	No	Yellow	No

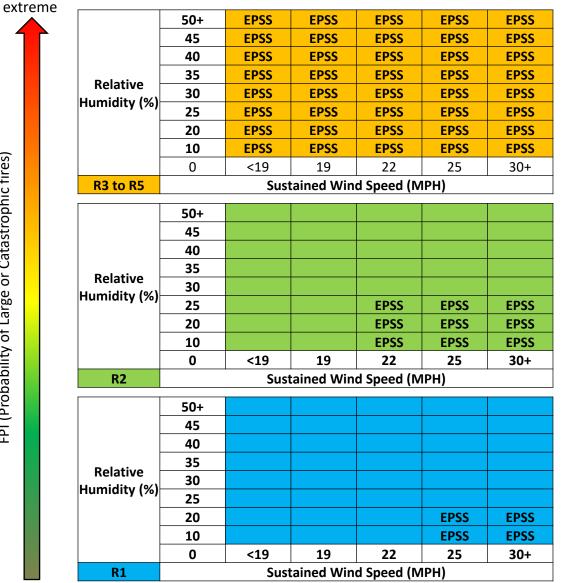
Summary of 2022 winter fires in CA

* Outside of PG&E territory

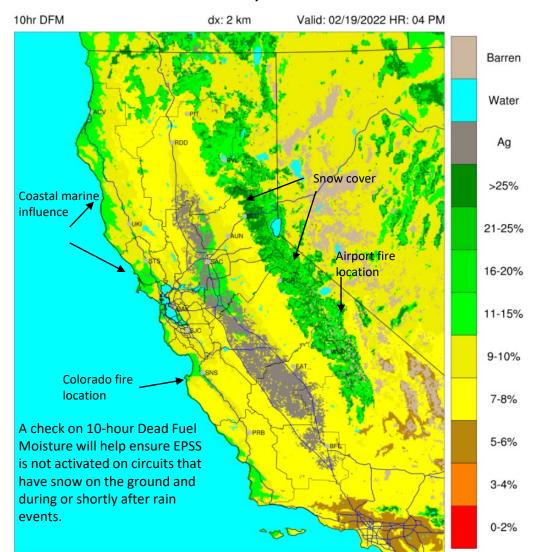
Discussion: FPI Ratings and Operational Considerations



EPSS Actions Driven by FPI, Wind, RH, and Fuel Moisture



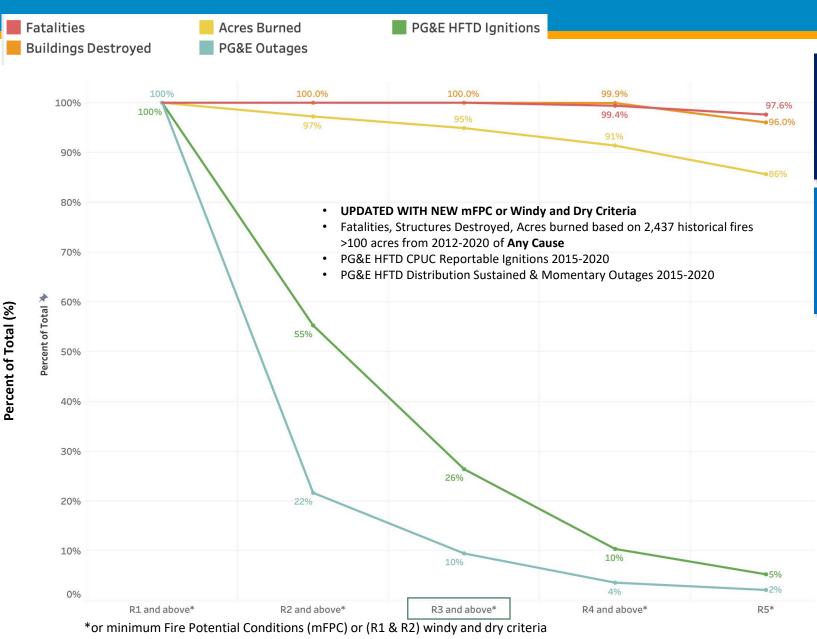
10-hour Dead Fuel Moisture Forecast for 2/19/2022. Most of the territory is currently below 9%.



*10hr DFM must be under 9% for EPSS to be enabled below R3 only

Low

Outages, Ignitions and Consequences by FPI Ratings*



FPI Ratings, minimum Fire Potential Conditions (mFPC), windy and dry R1-R2 criteria analyzed for historical fire consequences, ignitions & outages.

Adding minimum Fire Potential Conditions + windy and dry R1-R2 criteria results in a 1% increase in EPSS frequency compared to R3-R5 enablement criteria

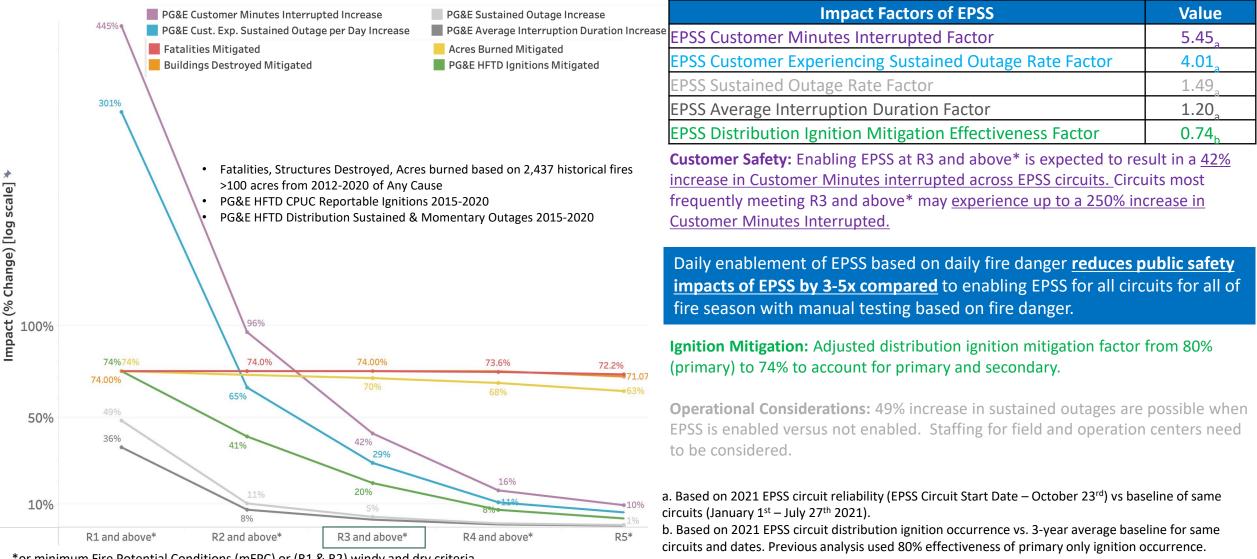
At R4 and above*, over 99% of consequences occur compared to 10% of ignitions. 91% of acres burned occur.

At R3 and above*, over 95% of acres burned, all consequences, and 26% of ignitions occur.

At R1* or R2*, no additional historical consequences are captured. ~5% of total acres occur (fires of any cause).

EPSS Operational Daily Implementation Expected Outcome

Expected outcomes for enabling EPSS with new criteria. Based on historical fires, ignitions and outage occurrence (previous slide) combined with EPSS ignition mitigation effectiveness and EPSS customer safety factors detailed in the table.



*or minimum Fire Potential Conditions (mFPC) or (R1 & R2) windy and dry criteria

The recommended options are below:

Option 1

 Add new wind speed, relative humidity, and dead fuel moisture 10hr criteria during R1 and R2 FPI conditions in addition to previously approved criteria and current posture.

Option 2

 Maintain previously approved criteria and current posture to enable EPSS when FPI is R3 or above or when mFPC are present.

Key Decision – Review of EPSS enablement at R1 and R2 FPI during windy weather



Decision Detail

Approve EPSS enablement at R1 and R2 FPI during windy weather. Add new wind speed, relative humidity, and dead fuel moisture 10hr criteria during R1 and R2 FPI conditions in addition to previously approved criteria and current posture.

Concerns and Mitigations

Approvals by Email			
Sumeet Singh	Approved		
Joe Bentley	Abstain		
Stephen Cairns	Approved		
Peter Kenny	Approved		
Mark Quinlan	Approved		
Wade Smith	Approved		
Ronald Richardson	Approved		

Action Items and Validations		