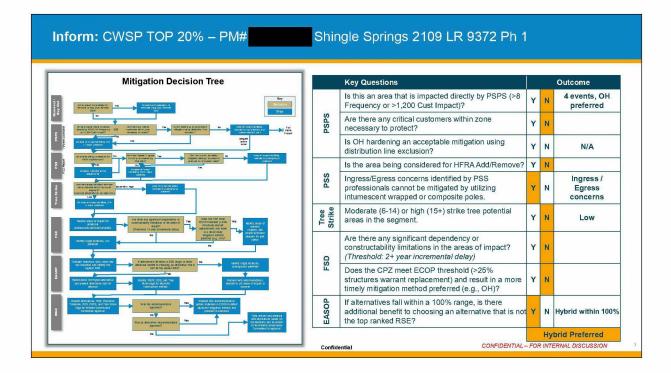
# Wildfire Risk Governance Committee

**System Hardening Project Approvals** 

February 2, 2021

	The f	allowing 2 proje				
		onowing s proje	cts have recom	nended mitigati	ons:	
Order No.	CPZ	Work Bucket	Total MAVF Core Risk Value	Mean MAVF Core Risk Rank	Recommendation	WGC Reques
WGC Deci	sion					
						Decision
						Decision
						Decision
Order No.	CPZ	Work Bucket	Total MAVF Core Risk Value	Mean MAVF Core Risk Rank	Recommendation	WGC Reques
WGC Infor	<u>m</u>					
WGC Infor	<u>m</u> Shingle Springs 21099372	CWSP Top 20%	19.55	227	Hybrid (8.29 mi)	Inform
WGC Infor	Shingle Springs	CWSP Top 20% CWSP Top 20%	19.55 23.78	227 227	Hybrid (8.29 mi) Hybrid (9.48 mi)	Inform



# Inform: CWSP TOP 20% - PM#

## Shingle Springs 2109 LR 9372 Ph 1

	Shingle Springs 2109 (	7.57 Miles)	No System Hardening	Overhead Hardening	Under-grounding	Hybrid
	Project Scope Risk Reduced After Mitigation		-	12.12	19.35	13.46
	Project Scope Residual Risk Value Overall Miles Installed		19.55	7.43	0.20	6.09
			7.57 Existing OH	7.57	12.25	8.29
	OH System Hardening Cost	/risk-mile	-			
	UG System Hardening Cost	/risk-mile	-			
	Line Removal Cost		-			
	Total Capital Cost (AACE Class 5)					
	Average O&M Cost (per year) NPV @ 6.8% discount rate					
Primary Filter	\$ NPV per unit of risk (RSE)		-			
	PSS Preference (Ingress/egress/fire history)		-	Not Preferred	Preferred	Preferred
	Strike Tree Potential		LOW (0-5)	Low Fall-In Risk	N/A	Low Fall-In Risk
	Ingress / Egress		LOW	Not preferred	Preferred	Preferred
Secondary	PSPS Mitigation (108 customers)		432 / 432 (0%)	432 / 432 (0%)	216 / 432 (50%)	432 / 432 (0%)
Filter	Execution timeline (2021, 2022, 2022+)		-	2021	2022+	2022
	Other (Operational Considerations, etc.)		-	-	-	
						Recommended

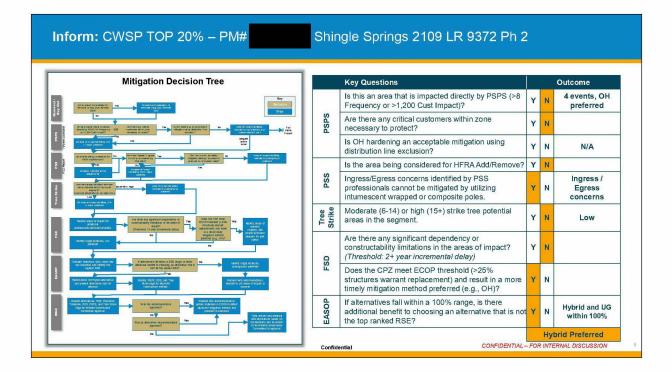
Public Safety Specialist: Predominantly grass-oak woodland, brush and grey pines. Population density is low to medium in immediate project area but a large area of medium population density to the south and southwest. The area around this project does not have significant fires history.

• Strike Tree Potential: 287 total strike potential trees in the CPZ, LOW (0-5) tree strike potential in this segment does not suggest UG hardening is required.

Egress Considerations: Lotus Road is the main evacuation route for civilians and main route for first responders.

 PSPS Mitigation: No mitigation potential due to limited scope of this hardening project; no critical / essential customers in this segment. To achieve PSPS reductions, additional scope would have to be included

Execution Timeline (Land/Bio/Cultural/Constructability): Work required during the dry season (May 15 – Oct 15) and/or biomonitoring. Air permit may be required due to naturally occurring asbestos. Minimal mitigation expenses expected as long as work is within the road ROW.



## Inform: CWSP TOP 20% - PM#

#### Shingle Springs 2109 LR 9372 Ph 2

	Shingle Springs 2109 (9.21 Miles)	No System Hardening	Overhead Hardening	Under-grounding	Hybrid
	Project Scope Risk Reduced After Mitigation	-	14.74	23.54	17.68
	Project Scope Residual Risk Value	23.78	9.04	0.24	6.10
	Overall Miles Installed	9.21 Existing OH	9.21	11.52	9.48
	OH System Hardening Cost /risk-mile	-			
	UG System Hardening Cost //risk-mile	-			
	Line Removal Cost	-			
	Total Capital Cost (AACE Class 5)				
	Average O&M Cost (per year)				
	NPV @ 6.8% discount rate				
Primary Filter	\$ NPV per unit of risk (RSE)	-			
	PSS Preference (Ingress/egress/fire history)	-	Not Preferred	Preferred	Preferred
Secondary Filter	Strike Tree Potential	LOW (0-5)	Low Fall-In Risk	N/A	Low Fall-In Risk
	Ingress / Egress	LOW	Not preferred	Preferred	Preferred
	PSPS Mitigation (113 customers)	452 / 452 (0%)	452 / 452 (0%)	226 / 452 (50%)	452 / 452 (0%)
	Execution timeline (2021, 2022, 2022+)	-	2021	2022+	2022
	Other (Operational Considerations, etc.)	-	-	-	-
					Recommended

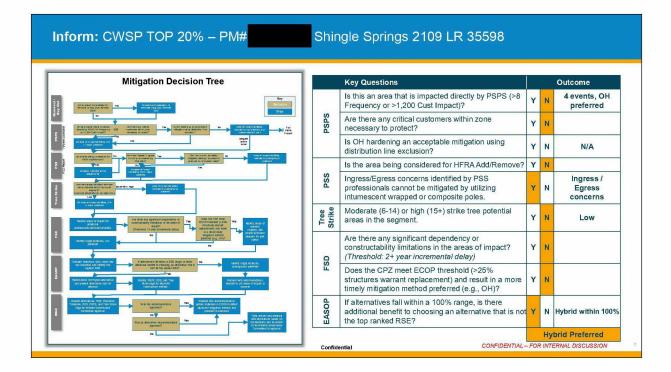
 Public Safety Specialist: Predominantly grass-oak woodland, brush and grey pines. Population density is low to medium in immediate project area but a large area of medium population density to the south and southwest. The area around this project does not have significant fires history.

• Strike Tree Potential: 287 total strike potential trees in the CPZ, LOW (0-5) tree strike potential in this segment does not suggest UG hardening is required.

Egress Considerations: Lotus Road is the main evacuation route for civilians and main route for first responders.

 PSPS Mitigation: No mitigation potential due to limited scope of this hardening project; no critical / essential customers in this segment. To achieve PSPS reductions, additional scope would have to be included

Execution Timeline (Land/Bio/Cultural/Constructability): Work required during the dry season (May 15 – Oct 15) and/or biomonitoring. Air permit may be required due to naturally
occurring asbestos. Minimal mitigation expenses expected as long as work is within the road ROW.



# Inform: CWSP TOP 20% - PM#

#### Shingle Springs 2109 LR 35598

	Shingle Springs 2109 (10.75 Miles)	No System Hardening	Overhead Hardening	Under-grounding	Hybrid
	Project Scope Risk Reduced After Mitigation	-	21.07	33.64	24.27
	Project Scope Residual Risk Value	33.98	12.91	0.34	9.71
	Overall Miles Installed	10.75 Existing OH	10.75	13.29	11.02
	OH System Hardening Cost //risk-mile	-			
	UG System Hardening Cost /risk-mile	-			
	Line Removal Cost	•			
	Total Capital Cost (AACE Class 5)				
	Average O&M Cost (per year)				
	NPV @ 6.8% discount rate				
Primary Filter	\$ NPV per unit of risk (RSE)	-			
	PSS Preference (Ingress/egress/fire history)	-	Satisfactory	Preferred	Preferred
Secondary Filter	Strike Tree Potential	LOW (0-5)	Low Fall-In Risk	N/A	Low Fall-In Risk
	Ingress / Egress	LOW	Satisfactory	Preferred	Preferred
	PSPS Mitigation (159 customers)	636 / 636 (0%)	636 / 636 (0%)	636 / 636 (0%)	636 / 636 (0%)
	Execution timeline (2021, 2022, 2022+)	-	2021	2022+	2022
	Other (Operational Considerations, etc.)	-	-	=	
					Recommended

 Public Safety Specialist: Predominantly grass-oak woodland, brush and grey pines. Population density is low to medium in immediate project area but a large area of medium population density to the south and southwest. The area around this project does not have significant fires history.

• Strike Tree Potential: 287 total strike potential trees in the CPZ, LOW (0-5) tree strike potential in this segment does not suggest UG hardening is required.

Egress Considerations: Lotus Road is the main evacuation route for civilians and main route for first responders.

 PSPS Mitigation: No mitigation potential due to limited scope of this hardening project; no critical / essential customers in this segment. To achieve PSPS reductions, additional scope would have to be included. PSPS was called 4 times for source side devices. 0 events for LR 35598.

Execution Timeline (Land/Bio/Cultural/Constructability): Work required during the dry season (May 15 – Oct 15) and/or biomonitoring. Air permit may be required due to naturally occurring asbestos. Minimal mitigation expenses expected as long as work is within the road ROW.