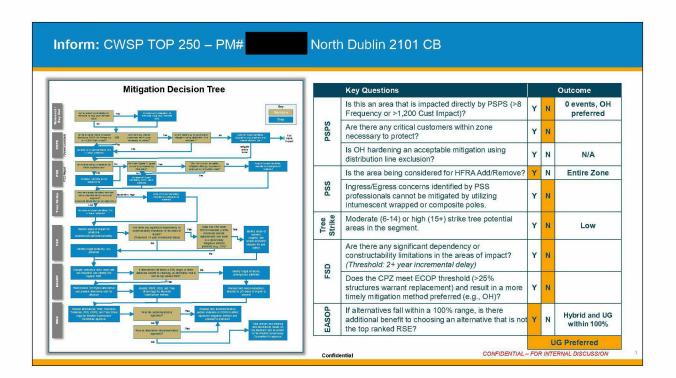
Wildfire Risk Governance Committee System Hardening Project Approvals

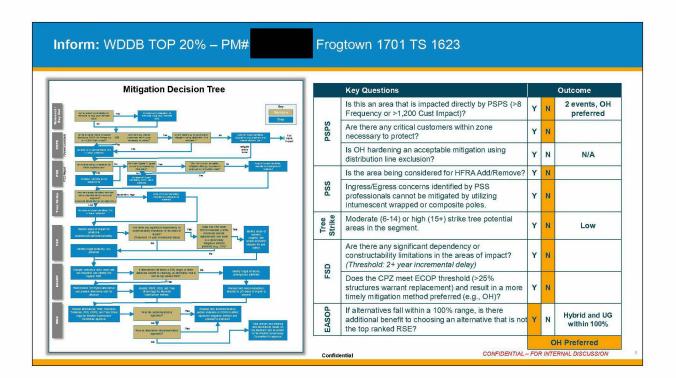
February 2, 2021

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	The following 3 projects have recommended mitigations:								
Order No.	CPZ	Work Bucket	Total MAVF Core Risk Value	Mean MAVF Core Risk Rank	Recommendation	WGC Request			
WGC Decision									
						Decision			
						Decision			
						Decision			
Order No.	CPZ	Work Bucket	Total MAVF Core Risk Value	Mean MAVF Core Risk Rank	Recommendation	WGC Request			
WGC Info	<u>rm</u>								
	North Dublin 2101CB	CWSP Top 250	13.07	47	Underground (3.65 mi)	Inform			
	Frogtown 17011623	WDDB Top 20%	0.63	721	Overhead (0.59 mi)	Inform			
	Mariposa 2102CB	CWSP Top 250	14.62	35	Overhead (5.31 mi)	Inform			

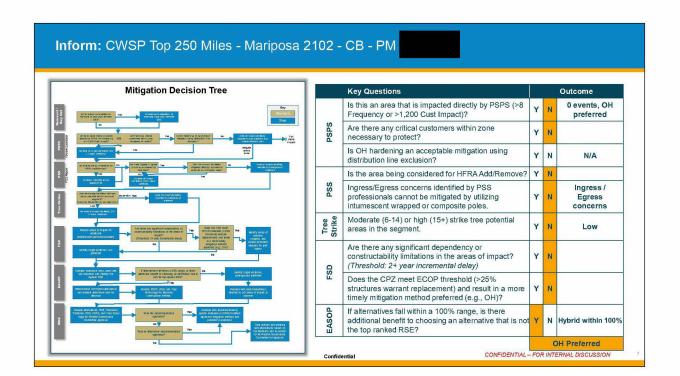


Inform: CWSP TOP 250 - PM# North Dublin 2101 CB Project Scope Risk Reduced After Mitigation 8.10 12.56 9.67 13.07 Project Scope Residual Risk Value 4.97 0.51 3.40 Overall Miles Installed 2.85 Existing OH 2.85 3.65 2.91 OH System Hardening Cost UG System Hardening Cost risk-mile risk-mile Line Removal 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) Satisfactory Satisfactory PSS Preference (Ingress/egress/fire history) Satisfactory Low Fall-In Risk Low Fall-In Tree Risk Low Fall-In Tree Risk Strike Tree Potential N/A LOW Satisfactory Ingress / Egress Satisfactory Satisfactory Secondary PSPS Mitigation (4886 customers) 0 / 0 (No events) Filter Execution timeline (2021, 2022, 2022+) 2021 2022 2022+ Other (Operational Considerations, etc.) Preferred Supporting Detail for Recommended Alternative (EDRS Link 2021-04306): • Public Safety Specialist: Predominantly annual grass with very few oak or other tree species. Population density is low to medium in immediate project area but a large area of high population density south and west of the project. The area around this project does not have significant fires history. Strike Tree Potential: Low total strike potential trees in the CPZ. Egress Considerations: No major egress concern, three 2 to 4 lane roads with bike lanes and shoulder. PSPS Mitigation: 10-year lookback does not show expected PSPS impacts, however it had actual impacts in the 2019 events. This will eliminate future PSPS impact of more than 4500 • Execution Timeline (Land/Bio/Cultural/Constructability): Work required during the dry season (May 15 – Oct 15) and/or biomonitoring. No mitigation expenses expected as long as work is within the road ROW. Existing spares from the substation exist improving cost assumptions & most connecting lines are UG. Completing these segments in UG is preferred, include ND 2103.



Inform: WDDB TOP 20% - PM# Frogtown 1701 TS 1623 No System Hardening Overhead Hardening Frogtown 1701 (0.59 miles) Project Scope Risk Reduced After Mitigation 0.39 0.62 0.39 0.63 Project Scope Residual Risk Value 0.24 0.01 0.24 Overall Miles Installed 0.59 Existing OH 0.59 1.08 1.08 OH System Hardening Cost UG System Hardening Cost risk-mile risk-mile Line Removal Cost Total Capital Cost (AACE Class 5) Average O&M Cost (per year) NPV @ 6.8% discount rate \$ NPV per unit of risk (RSE) Primary Filter Satisfactory PSS Preference (Ingress/egress/fire history) Satisfactory Satisfactory LOW(0-5) Low Fall-In Tree Risk Low Fall-In Tree Risk Strike Tree Potential N/A Satisfactory Ingress / Egress Satisfactory Secondary PSPS Mitigation (5 customers) Execution timeline (2021, 2022, 2022+) 10 / 10 (0%) 10 / 10 (0%) 10 / 10 (0%) 10 / 10 (0%) Filter 2021 2022+ 2022 Other (Operational Considerations, etc.) Supporting Detail for Recommended Alternative (EDRS Link 2021-04261): • Public Safety Specialist: Predominantly grass, heavy intermediate sized brush, and intermixed patches of Gray Pine. Population density is low in immediate project area but a large area of moderate to heavy population density surrounding the project. The area around this project has significant fires to the northeast and northwest. • Strike Tree Potential: 445 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: No major egress concern, project does not run along road. • 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 • Execution Timeline (Land/Bio/Cultural/Constructability): No Constraints. CONFIDENTIAL - FOR INTERNAL DISCUSSION

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Inform: CWSP Top 250 Miles - Mariposa 2102 - CB - PM

	Mariposa 2102 (5.31 miles)	No System Hardening	Overhead Hardening	Under-grounding	Hybrid
	Project Scope Risk Reduced After Mitigation	-	9.06	14.47	10.10
	Project Scope Residual Risk Value	14.62	5.56	0.15	4.52
	Overall Miles Installed	5.31 Existing OH	5.31	6.72	6.72
	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	Satisfactory	Satisfactory
Secondary Filter	Strike Tree Potential	LOW (0-5)	Low Fall-In Risk	N/A	Low Fall-In Risk
	Ingress / Egress	LOW	Satisfactory	Satisfactory	Satisfactory
	PSPS Mitigation (44 customers)	44 / 44 (0%)	44 / 44 (0%)	44 / 44 (0%)	44 / 44 (0%)
	Execution timeline (2021, 2022, 2022+)	-	2021	2022+	2022+
	Other (Operational Considerations, etc.)	-		-	-
			December ded		

Supporting Detail for Recommended Alternative (EDRS Link 2021-04769):

- Public Safety Specialist: Predominantly grass-oak woodland with patches of intermediate sized brush and some gray pine. Population density is low in immediate project area but a large area of high population density to the east at the end of the project. The area around this project has significant fires to the west and north.
- Strike Tree Potential: 16 total strike potential trees in the CPZ, LOW (0-5) tree strike potential in this segment does not suggest UG hardening is required.
- $\blacksquare \quad \textbf{Egress Considerations:} \ \textbf{No major egress concern, this project is cross country with few road crossings.}$
- PSPS Mitigation: No historical PSPS operations.
- Execution Timeline (Land/Bio/Cultural/Constructability): May require work during the dry season (Jan 1 Oct 15) and/or biomonitoring. Naturally occurring asbestos identified in project area. Caltrans ROW for UG and Hybrid options.

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