

**Wildfire Risk Governance Forum
November 13th, 2020**



Safety

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 [REDACTED] and notify your supervisor.

Wash your hands!

Wear a Mask

Practice social Distancing

Meeting Agenda

Date:	11/15/2020		
Desire Outcomes:	<ul style="list-style-type: none"> • Inform: Decision Items & Action Items • Decide: System Hardening "No Regrets" approach • Inform: Outline Inspections program – focus areas & needed resources • Decide: Enhanced Veg Management "No Regrets" approach 		
Meeting Agenda			
#	What - Content	Who - Facilitator(s)	Slide Number / Duration
1	Safety Minutes and Agenda	[REDACTED]	1-2 / 5 min
2	Decision and Action Item Review	[REDACTED]	3-11 / 15 min
3	System Hardening	[REDACTED]	12-15 / 20 min
4	System Inspections	[REDACTED]	16-18 / 20 min
5	Enhanced Vegetation Management	[REDACTED]	19-24 / 20 min
6	Follow ups and Next Steps	[REDACTED]	25-26 / 10 min

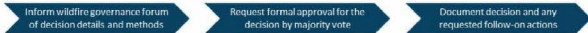
Decision and Action Item Review





Key Wildfire Risk Model Governance Forum Decision

Governance Forum Decision Approval Process



Workstream	Decision	Description	Approval Vote	Date
Risk Models	Adoption of the 2021 wildfire risk models for mitigation deployment	<ul style="list-style-type: none">Adopt the proposed ignition model for vegetation ignitions and technology for 2021 BRM workAdopt the proposed ignition model for equipment ignitions and technology for 2021 System Maintenance work	Approved Approved Approved Not Present	10/26/2020



Key Decision – Adoption of the 2021 Risk Model for Mitigation Deployment

Approval Status Approved

Decision Detail

The approval is for moving from the 2018 wildfire risk model to the 2021 wildfire risk model to inform system hardening, enhance vegetation management and inspections. These changes included:

- Update to vegetation ignition model (LoRe)
- Update to conductor model (LoRe)
- Update to consequence (core)

Concerns and Mitigations

- Inclusion of non-447D areas requested in the next model iteration
- Inclusion of Egress model requested in the next model iteration
- Resource availability to complete "hot risk informed planned work" was challenged
- Detailed description of variables in particular "non-burnable areas" requested
- The ability to calculate tree density within piweb was challenged

Approvals

Approved
Approved
Approved
Approved
Abstain – Not Present

Action Items and Validations

Adoption of the 2021 wildfire risk model for mitigation deployment Deep dive risk model session	Completed - Adopt the proposed ignition model for vegetation ignitions and TechnoSyn for 2021. OVM work. Completed - Adopt the proposed ignition model for equipment ignitions and TechnoSyn for 2021. System hardening work.
Risk models comparison	Completed - Detailed risk comparison between the 2018 risk model and 2021 risk model to highlight improvement of CP2s (Targeting top 100 circuits or CP2s)
Deep dive risk model session	Completed - Hold a Deep Dive Session with (1) the Federal Monitor and (2) the Operational Closure
Model process documentation	In Process - Bring the Model Process Level documentation to this forum for an official approval
Egress Consideration	Road Mapped - Factor in Egress into process for selecting the protection zones to be worked

Risk Model Action Items

Workstream	Action Item	Description	Responsible party	Resolution	Date
NSR Model	Deep dive risk model session WDR-15/16/2020	NSR's Deep Dive session with (1) the Federal Monitor and (2) the Operational Observer	[Redacted] to [Redacted] as part of the meeting	Complete - Meetings have been scheduled for 11/8 & 11/12	11/12/2020

Updates

- First Deep Dive session held on Monday 11/10/2020 at 1:00pm PST
- Second session will be held on Thursday 11/12/2020 at 12:30pm PST



Risk Model Action Items

Workstream	Action Item	Description	Responsible Party	Resolution	Date
Risk Model	Risk Model Contributor	Provide a detailed description of the top model contributors.	[Redacted]	Complete - Targeted for inclusion in Open Data Release	11/13/2020

Vegetation Model - Contributors Description

Variable	Description
Tree height_max	Maximum tree height, in meters, for each 100m x 100m pixel area using the distribution grid.
100-hour-fuels_avg	The dead fuel moisture data from GRDMET.
Vapor-pressure-deficit_avg	The average vapor pressure deficit from the GRDMET dataset.
Windy-summer-day_pct	Percentage of days that have high frequency of winds.
WFI	High fuel/moisture district.
Precipitation_avg	The average daily precipitation from the GRDMET dataset.
Impervious	Impervious ground cover (i.e. non-flammable).
Specific-humidity_avg	The average specific humidity from the GRDMET dataset.
Burn index_avg	An derived variable based off of the geographical and topographical aspects of a location.
Wind_max	The maximum wind velocity at a height of 10 meters from the RealTime Mesoscale Analysis (RTMA) dataset at a resolution of 2.5km.
Temperature_avg	The average temperature from the GRDMET dataset.
Windy-summer-day_pct	Percentage of days that have a high percentage of days with high average wind speed.
Local-topography	The topographic position index (TPI) was extracted from a USGS digital elevation model (DEM) at 100-meter resolution.
1000-hour-fuels_avg	The dead fuel moisture data from GRDMET.
Energy-release_avg	Average release of energy from fuels.

Conductor Model - Contributors Description

Variable	Description
Non-flammable-area	Land surface description similar to imperviousness that includes surfaces that typically don't ignite when a spark occurs.
Daily-precipitation_mean	The average daily precipitation from the GRDMET dataset.
Conductor-material_acres	Aluminum conductor steel-reinforced.
Estimated-conductor-age	Number of years since the installation year.
Max-tree-height	Maximum tree height, in meters, for each 100m x 100m pixel area using the distribution grid.
Reliability-Program-score	Scores with more than three calls per phase.
Vapor-pressure-deficit_mean	The average vapor pressure deficit from the GRDMET dataset.
Conductor-size-2	Conductor size 2.
Conductor-size-4	Conductor size 4.
100-hour-fuels_mean	The dead fuel moisture data from GRDMET.
Max-temperature_mean	The average maximum temperature from the GRDMET dataset.
Wind-speed_mean	The average wind velocity at a height of 10 meters from the RealTime Mesoscale Analysis (RTMA) dataset at a resolution of 2.5km.
Local-topography	The topographic position index (TPI) was extracted from a USGS digital elevation model (DEM) at 100-meter resolution.

 Risk Model Action Items

Workstream	Action Item	Description	Responsible party	Resolution	Date
Risk Models	Model process documentation	Bring the Model Process Level Documentation to this forum for an official approval	[REDACTED]	In Process Targeted for inclusion in deep dive accounts	11/20/2020

1 User Guide
Model procedure and details will be provided in the user guide to the forum for review at the 11/20 session



Risk Model Action Items

Workstream	Action Item	Description	Responsible party	Resolution	Date
Wildfire Governance Charter	Charter update	Update charter to include review of broader set of WFP risk reduction activities and projects (see slide).	[REDACTED]	Completed. Risk Charter has been updated, included in attached materials.	11/05/2020

See updated slide for the updated wildfire governance Charter

Meeting Purpose:

- Drive decision making on:
 - Wildfire Governance Charter alignment on the top-level risk framework to guide the work, provide a focus to review key risk-based assumptions, and associated reports.
- Work:
 - Review completion of the updated wildfire risk mitigation work (including health, investment, asset, strategy and operational) needs, guide charter to needed.
 - Discuss the approved work plans completed and the quality of the completed work is monitored.

Key Deliverables:

- Integrate individual wildfire mitigation workstream meetings into a single governance session
- Attendees will focus on system leadership, operational expansion management, inspection and repairs and will expand into other areas of wildfire and PPS mitigation work. Meeting topics and supporting material will adjust based on discussion and request from Working Directors.

Attendees:

- Chair: Chief Risk Officer
- Working Members:
 - VP Asset, Risk Management & Community Wildfire Safety Program
 - VP Major Projects and Programs, Electric Operations
 - VP Wildfire Safety and Public Engagement
- VP Chief Audit Officer
- Non-Voting Members:
 - VP Director, Electric Asset Strategy
 - VP Director, Major Programs & Project Delivery
 - VP Director, Risk Management
 - Director, CIP & M&P
- Workstream Leads:
 - System Handover Director, Distribution Strategy
 - Enhanced Inspection Management, Director, Regulatory Management
 - Inspection & Repair Manager, Transmission Standards
- Facilitator:
 - VP Director, Risk - Special Projects

How Decisions are Made:

- Initial meeting agenda will be an addendum for decisions to be made.
- A simple majority vote by attending committee members.
- For broader: Chair hold the tie-break vote.

Meeting Logistics:

- Frequency/Duration: Weekly (every Friday)
- Materials:
 - Pre-read materials sent 1 day before meeting.
 - Action items included in following meeting material.
- Agenda: VP Director, Risk - Special Projects to approve final agenda.

System Hardening

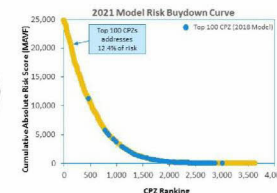
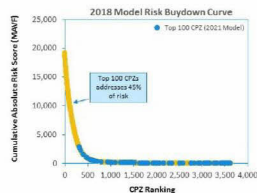


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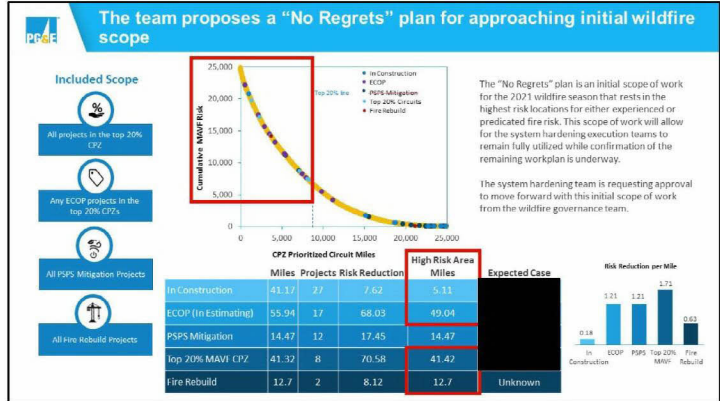
Risk Model Action Items

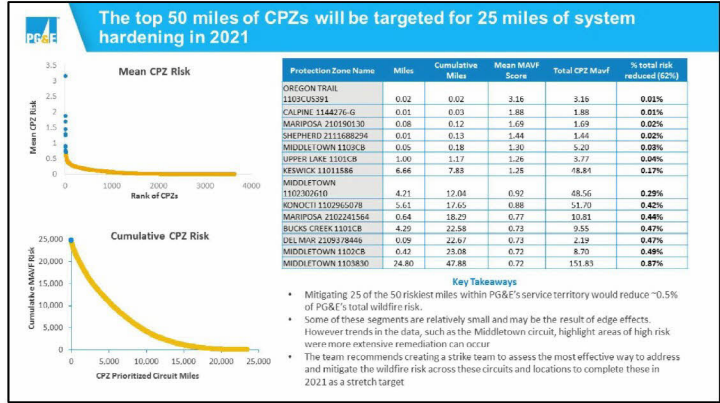
Workstream	Action Item	Description	Responsible party	Resolution	Date
Risk Model	4-63-models comparison WGR - 10/30/2020	Create risk comparison between the 2018 risk model and 2021 risk model to highlight movement of CPZs. The getting top 100 (results of CPZs)	[Redacted]	Complete - See the Risk Model Followup Section	11/3/2020

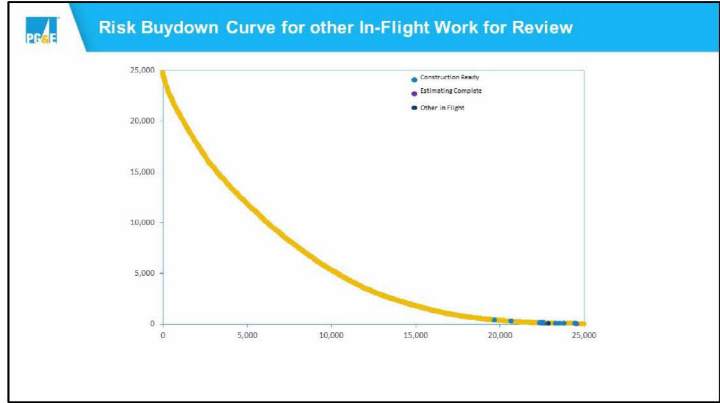


Key Takeaways

- No CPZs in the top 100 overlap
- This will result in significant change to the prioritization and expected risk buydown of mitigations
- The 2018 risk results were not distance weighted, where the 2021 prioritization included a distance factor.







Construction Ready				Other In Flight			
Protection Zone Name	Project Miles	Mean MAVT Score	Total Project MAVT	Protection Zone Name	Project Miles	Mean MAVT Score	Total Project MAVT
KONNECT 1101512	0.82	0.0091	0.013	LOS 6ATOS 1106264	0.41	0.0125	0.038
KONNECT 1101512	0.78	0.0091	0.060	LOS 6ATOS 1106264	0.87	0.0125	0.080
PINE GROVE 11021222	0.41	0.0098	0.028	LOS 6ATOS 1106264	0.77	0.0128	0.071
PINE GROVE 11021222	1.40	0.0098	0.049	LOS 6ATOS 1106264	1.50	0.0128	0.198
PINE GROVE 11021222	1.45	0.0098	0.018	LOS 6ATOS 1106264	0.53	0.0128	0.068
WEST POINT 11011844	1.94	0.0035	0.060	LOS 6ATOS 1106264	0.87	0.0128	0.080
WEST POINT 11011844	1.01	0.0035	0.031	LOS 6ATOS 1106264	1.00	0.0128	0.148
WEST POINT 11011844	1.61	0.0035	0.029	LOS 6ATOS 1106264	1.48	0.0128	0.137
WEST POINT 11011844	0.80	0.0038	0.075	LOS 6ATOS 1106264	0.09	0.0128	0.054
WEST POINT 11011844	1.11	0.0038	0.014	KONNECT 11021512	0.59	0.0091	0.046
WEST POINT 11011844	1.19	0.0038	0.035	KONNECT 11021512	0.52	0.0091	0.040
MWVW 1701514	2.19	0.0090	0.080	EL DORADO PI 11021208	10.45	0.0041	0.282
MWVW 1701514	2.18	0.0071	0.051	MWVW 1701514	1.80	0.0038	0.074
MWVW 1701514	0.76	0.0015	0.015	PINE GROVE 11021312	1.50	0.0038	0.059
MWVW 1701514	0.81	0.0017	0.011	WEST POINT 11011844	1.26	0.0035	0.039
SALT SPRINGS 11021142	1.30	0.0009	0.011	WEST POINT 11011844	1.45	0.0035	0.044
SALT SPRINGS 11021142	1.02	0.0009	0.010	MWVW 17021818	11.60	0.0029	0.228
SALT SPRINGS 11021142	2.07	0.0009	0.027	CAMP EVERS 11060000	0.44	0.0021	0.008
SALT SPRINGS 11021142	1.80	0.0009	0.028	CAMP EVERS 11060000	1.59	0.0021	0.028
SALT SPRINGS 11021142	1.30	0.0009	0.020	CAMP EVERS 11060000	1.95	0.0021	0.041
SALT SPRINGS 11021142	1.79	0.0009	0.011	CAMP EVERS 11060000	1.90	0.0021	0.033
SALT SPRINGS 11021142	1.05	0.0009	0.014	CAMP EVERS 11060000	0.87	0.0021	0.015
SALT SPRINGS 11021142	1.04	0.0009	0.014	CAMP EVERS 11060000	0.87	0.0021	0.155
MWVW 17021818	1.88	0.0002	0.008	REHOBOTHS 11012100	2.74	0.0017	0.054
MWVW 17021818	2.05	0.0002	0.004	SALT SPRINGS 11021142	1.81	0.0009	0.019
				MWVW 17021818	2.28	0.0007	0.014
				MWVW 17021818	1.44	0.0002	0.005

Estimating Complete			
Protection Zone Name	Project Miles	Mean MAVT Score	Total Project MAVT
PINE GROVE 11021222	1.58	0.0038	0.060
PINE GROVE 11021222	1.34	0.0038	0.058
WEST POINT 11011844	1.83	0.0035	0.056
WEST POINT 11011844	2.81	0.0035	0.080
SALT SPRINGS 11021142	1.48	0.0009	0.012
MWVW 17021818	2.19	0.0002	0.010
MWVW 17021818	1.89	0.0002	0.004

Key Takeaways			
Category	Count	Total Miles	Total MAVT
Construction Ready	25	35 miles	0.25
Estimating Complete	7	13 miles	0.05
Other in flight projects to complete circuit segments	27	62 miles	0.25
Other in flight projects to be stopped	1	1.165 miles	0.00

PG&E 22 circuits have seen at least five unique PSPS events in the 2019-2020 timeframe

Seven PSPS Events				Six PSPS Events				Five PSPS Events			
Circuit Name	County	Min Max CPZ Rank	Total Customer Events	Circuit Name	County	Min Max CPZ Rank	Total Customer Events	Circuit Name	County	Min Max CPZ Rank	Total Customer Events
ORO FINO 1101	BUTTE	2289-2420	25091	WYANDOTTE 1103	BUTTE	219-1849	13105	WYANDOTTE 1107	BUTTE	265-2033	14544
ORO FINO 1102	BUTTE	1050-2763	21561	NOTRE DAME 1104	BUTTE	1877	4317	BANGOR 1101	YUBA	59-1567	12328
PARADISE 1104	BUTTE	734-2954	14710	PARADISE 1106	BUTTE	2813-2933	3503	ROBBINS 1101	YUBA	193-1227	2096
PARADISE 1105	BUTTE	2141-2912	12054					CHALLENGE 1102	YUBA	793-1693	6719
CLARK ROAD 1102	BUTTE	968-2032	10410					KANAKA 1101	BUTTE	1180-2065	4572
PARADISE 1103	BUTTE	2257-2955	5534					BANGOR 1101	BUTTE	59-1567	4373
BUTTE 1105	BUTTE	1089-1979	3194					KANAKA 1101	YUBA	1180-2065	417
BIG BEND 1102	BUTTE	865-1288	2772					CHALLENGE 1102	BUTTE	793-1693	266
WYANDOTTE 1105	BUTTE	834-1833	2560					BUCKS CREEK 1101	PLUMAS	11	35
BIG BEND 1101	BUTTE	927-1950	2332								

Indicates Some Circuit Segments in top 20% (Rank 1-727)

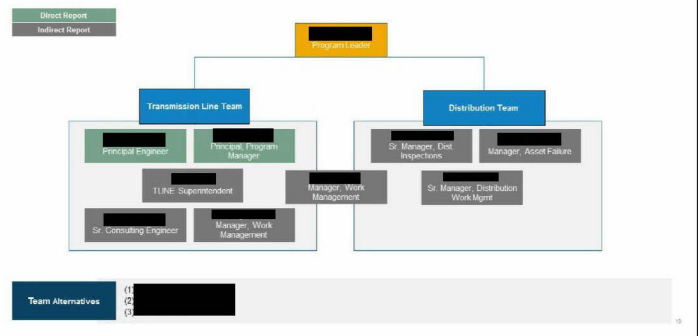
Overhead Inspections



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The inspections team is requesting the following structure to support the execution of the defined scope



Enhanced Vegetation Management



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The VM Wildfire Risk Model, which forms the basis of EVM risk calculations, has been modified to obtain a tree-weighted risk scoring

VM Wildfire Risk Model

- 1 Highlights**
 - Looks at the overall wildfire risk caused by vegetation that exists in each area
 - Does not take into account tree count within the vicinity of the grid
 - The analysis does not take into account the completed miles that were captured in 2019 to 2020.
- 2 Data**
 - Trained on historic ignition data (wildfire season 2015-2018)
 - Includes Technosylvia simulation outputs into the MAVF consequence data
 - While preserving the Technosylvia outcomes at the 320m pixel level, MAVF scores are then scaled to the Risk Scores generated in regulatory filings such as RAMP and WMR.
- 3 Methodology**
 - Risk per pixel is spread across all trees in the VM database within each pixel
 - Modelling and EVM work are constrained to pixels within HFTDs
 - Pixel level results are rolled up to higher level CPZ results

VM Wildfire Risk Model with Tree-Weighted Scoring Adjustments

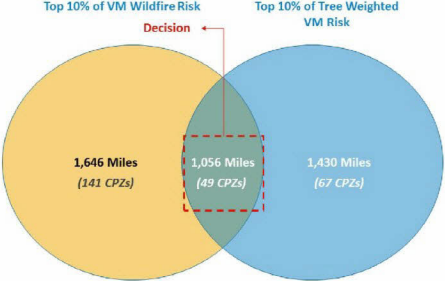
- 1 CPZ Aggregation of Risk**
 - The 100m x 100m risk pixels are re-aggregated into 1 km x 1 km grid areas (utilizing the unified grid (FlatMap))
 - An entire grid area is assigned to a single CPZ
 - All risks in the grid area that are assigned to the same CPZ are aggregated to obtain a risk score for the CPZ
- 2 Estimation of Existing Tree Work**
 - LIDAR data spanning 21K miles of HFTD distribution circuits was used to estimate existing tree work
 - The estimates were prepared based on inspectors visiting 5K miles of conductor segments to validate LIDAR information
 - On the basis of LIDAR and ground inspection data, regression models were built to predict estimated tree work
- 3 CPZ Risk Weighting**
 - The predicted tree work was combined with the number of trees already worked to determine remaining CPZ tree work
 - The number of remaining trees were then used to weigh the CPZ risk
 - Tree-Weighted Adjusted Grid Risk = Average MAVF core risk x percent of tree work complete x number of trees in the CPZ

Tree Weighted Risk = [VM Wildfire Risk] X [% CPZ Completed] X [Trees in CPZ]

21



A "no regrets" approach of tackling the CPZs identified as high risk by both models is proposed for adoption to operationalize work



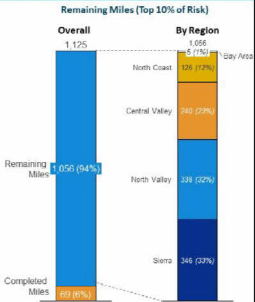
49 CPZs and 1,056 miles were common across the VM Wildfire risk ranking and the Tree Weighted risk ranking. Both models highlight these areas as high impact, and should be prioritized for EVM work.

Note: CPZs indicated are based on the draft 2021 EVM Plan targeting 2,295 miles

EVM is requesting approval to commence work on ~1,056 'no regret' miles involving a total of 49 Circuit Protection Zones (CPZs)

Circuit Protection Zones with 'No Regret' Remaining Miles

CPZ Name	Completed Miles	Total Remaining Miles	Estimated Remaining Tree work
Higgins 110950072	-	51	1,840
Deschutes 11011580	-	45	2,321
Shingle Springs 210913322	-	40	1,632
Red Bluff 11011884	-	40	506
Auberry 110182578	0	40	1,260
Mariposa 210210880	-	39	676
Auberry 1102 Circuit Breaker	1	33	380
Bell 11082202	2	30	886
Cedar Creek 11011664	-	29	2,143
Higgins 1109 Circuit Breaker	-	28	1,217
Remaining 39 CPZs	58	680	29,879
Total	69	1,056	42,749



While the full EVM 2021 work plan is being discussed, the EVM team seeks an approved scope for work starting in December that includes 1,056 miles prior to the approval of the full 2021 work plan

2021 Draft EVM Plan

Key Features and Scope Areas


- Circuit Protection Zones (CPZs)**
 - The 2021 plan incorporates the **concept of the CPZ** – a term coined by the Asset Strategy team
 - CPZs are being used because they are **tied to isolation devices** on circuits, and in the case of PSPS events, indicate a way to isolate a circuit from a certain point.
- Plan rationale**
 - The 2021 LVM plan has been prepared with the intent that:
 - The plan **avoids any System Hardening projects** in 2021
 - Need final 2021 System Hardening Plan in order to complete full 2021 proposed projects
 - The plan targets **190,000 trees** and **2,295 miles** of distribution circuits.
 - The plan envisions a **pre-inspection of between 886-938 trees**, **tree work of an estimated 173-210K trees** and **removal of an estimated 107-148K trees**
 - The current plan has been prepared on the basis of a tree-based weighted analysis of risk across CPZs to take into account tree work already completed – a variable that is missing from the VM Wildfire Risk model
- Scope**

Regional Distribution of Targeted Mileage (miles)

Region	Mileage (miles)	Percentage
Central Coast	18	1%
Central Valley	755	33%
North Coast	408	17%
North Valley	605	26%
Sierra	888	39%
Total	2,295	100%

Other Considerations

- Plan inputs:** The plan has been prepared on the basis of work completed and risk from the VM Wildfire Risk Model
- The plan overlaps with inputs from local subject matter experts (SMEs), prior inspections and local customer/agency contacts
- Regions:** Plan targets have been balanced with respect to a 12-year plan across each of the regions
- Estimated cost:** A direct cost of [REDACTED] is estimated for gas inspection and tree work spend

 Action Items					
Workstream	Action Item (Initial Date)	Description	Responsible party	Resolution	Date
Enhanced Vegetation Management	EVM Risk Ruydown Curve WGR- 11/3/2020	Plot and show the 1130 miles (80-90% Carry Over Work that needs to be finished) on the EVM-02 Dike Tree and Overhang (Wghow-0) Risk Ruydown Curve		Not Applicable – Scope has moved away from the prior Carryover plan	11/13/2020
Enhanced Vegetation Management	EVM programs timeframes WGR- 11/3/2020	Determine the overall time frame and pace for the EVM program when 50k+ potential trees are factored into the 2200 miles of WFD Circles. Understand which of the 2200 miles need EVM work		In Process – Forecast program time is being developed alongside tree weighted risk	11/20/2020
Enhanced Vegetation Management	EVM programs and resources WGR- 11/3/2020	Provide a full picture of all vegetation management work outside of just the enhanced vegetation management.		In Process – Review of other programs underway, dependent upon total EVM scope for resourcing	11/20/2020
Enhanced Vegetation Management	System hardening and EVM work overlay WGR- 11/3/2020	Evaluate the areas that are being targeted by system hardening to align for operational efficiencies between the two programs. Dependency on 2021 SH Work plan		Not Applicable – Changes to system assets and structure limit ability to complete to EVM standards	11/13/2020
Enhanced Vegetation Management	Tree density statistic WGR- 11/3/2020	Show tree density from the 2019 and 2020 work. Provide tree density number per mile processed so we show future work 2021, 2022		Ready Mapped – LIDAR tree density will be examined for inclusion in future risk modeling	11/13/2020

Follow-Ups and Next Steps



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Upcoming Review Agenda Items

11/20/2020

- Final Decision on System Hardening Plan (If feasible)
- Initial Review into Inspections 2021 Plan
- Initial Review into Repairs 2021 Plan
- Close out Completed Action Items

12/01/2020

- Final Decision on EVM 2021 Plan (If feasible)
- Decision Items needed for Inspections 2021 Work Plan
- Close out Completed Action Items

12/08/2020

- Decision needed on Inspection. Initial views of 2021 Work Plan
- Decisions needed on Repairs 2021 Work Plan
- Tier 1 – Overhead Conductor Replacement Discussion

27



Complete Action Items from 11/09/2020 (Federal Monitor Meeting)

Workstream	Action Item	Description	Responsible party	Resolution	Date
Risk Models	Risk Model's comparison WGR: 10/30/2020	Include high risk areas outside of MFD (non-Eric) in the next iteration of the Du Model		Risk Mapped - This will be added as an enhancement to the model roadmap	11/23/20
Risk Models	Risk Model Enhancement	Incorporate 2019 LIDAR data and species data in the next iteration of the Du Model		Risk Mapped - This will be added as an enhancement to the model roadmap	11/23/20
Risk Models	Risk Model Enhancements	Include signs on the consequence side for the next iteration of the Du Model		Risk Mapped - This will be added as an enhancement to the model roadmap	11/23/20
Risk Models	Model Documentation	Asa to be added to charters slide 22 (see 11.09.2020 Wildlife Risk Model Review Draft v2)		Completed	11/23/20

Complete Action items

Workstream	Action Item	Description	Responsible party	Resolution	Date
Inspection	Inspection Workstream Owner	Schedule meeting to identify the owner of the inspection and/or repair workstream		Completed – inspection lead identified	10/21/2020
Risk model	Risk Model Deep Dive	The risk model needed further detailed discussion before voting and approval could take place		Completed – Follow up session held 10/27. Detail on the risk model was provided in advance of 10/30 approval meeting.	10/23/2020
RIM	RIM review meeting	Schedule additional meeting for RIM review		Completed – Follow up meeting was held on 11/05	11/05/2020
Governance meetings	Meeting updates	Update meeting to be 90 minutes		Completed – future meetings updated – effective 11/13	11/05/2020
Governance meetings	All future meetings	to be added to future meetings to provide additional direction from audit		Completed – as been added to all future governance meetings	10/23/2020



Action Item Tracking

Workstream	Action Item	Description	Responsible Party	Resolution	Date
Risk Models	Risk models comparison WGR - 10/30/2020	Create risk comparison between the 2018 risk model and 2021 risk model to highlight movement of CRs (Targeting top 100 in units w/ ERF).		Completed	11/11/2020
Risk Models	Deep dive risk model assist WGR - 10/30/2020	Hold a Deep Dive Session with (1) the Federal Monitor and (2) the Operational Observer.		Completed	11/11/2020
Risk Models	Risk model contributors	Highlight contributors to the risk model.		Completed	11/11/2020
Risk Models	Model process documentation	Bring the Model Process documentation to the fore for an official approval.		In Process - Targeted for inclusion in deep dive sessions.	11/20/2020
Risk Models	Egress Consideration	Factor in Egress into process for selecting the protection zones to be worked.		Road Mapped - Egress has been considered as a future enhancement for the risk model.	11/09/2020
Offshore governance Charter	Charter update	Update charter to include review of broader set of WP risk reduction activities and project oversight.		Complete - Risk charter has been updated, included in attached materials.	11/09/2020



Action Items from 11/09/2020 (Federal Monitor Meeting)

Workstream	Action Item	Description	Responsible party	Resolution	Date
Risk Models	Risk models comparison WGR – 10/19/2020	include high risk areas outside of RTD (see Enr) in the next iteration of the Da Model		Road Mapped – This will be added as an enhancement to the model road map	XXX
Risk Models	Risk Model Enhancement	incorporate 2018/19 DAIR data and routing data in the next iteration of the Da model		Road Mapped – This will be added as an enhancement to the model road map	XXX
Risk Models	Risk Model Enhancement	include Egress on the connector roads for the next iteration of the Da Model		Road Mapped – This will be added as an enhancement to the model road map	XXX
Risk Models	Model documentation	area to be added to charts on slide 22 (see 11/09/2020 email for Risk Model for new Phase 1)		Completed	11/18/2020

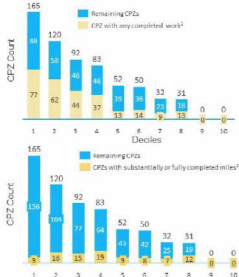
Appendix





Comparison of the Tree Weighted model to the Dx Model

Overlap between the Risk Models



Key Take-aways

- The correlation between the EVM weighted prioritization scores and the MAVF score is low at 0.0099
- Of the top 20% of circuits that were identified in the Dx model, 285 remained in the top two deciles of the Tree Weighted model.
- Of the top 100 CPZs, only 14 were common across both prioritization lists
- Over 10% of the CPZs identified to have risk in the Dx model were zero risk locations in the tree weighted model.

MAVF vs. EVM Weighted MAVF Score

