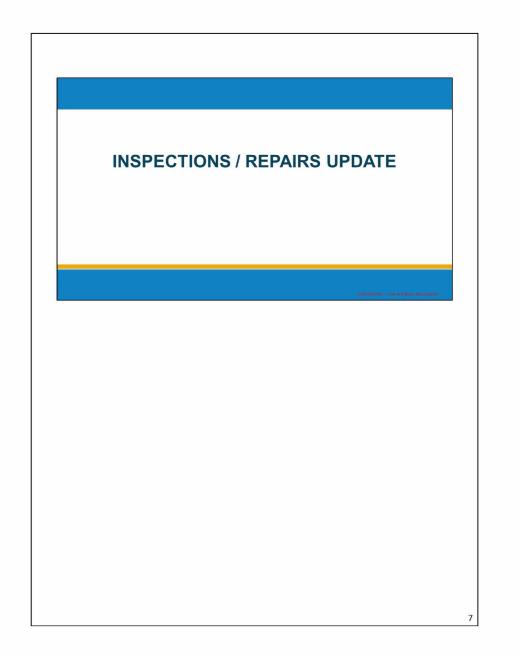
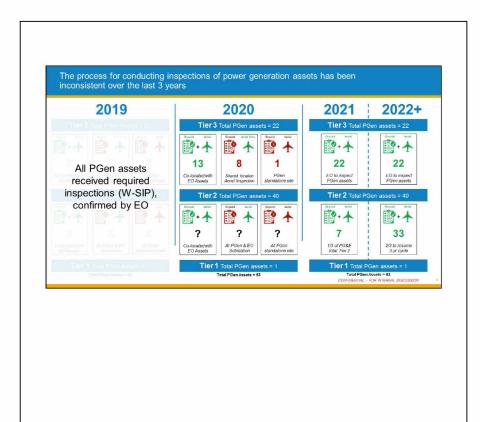
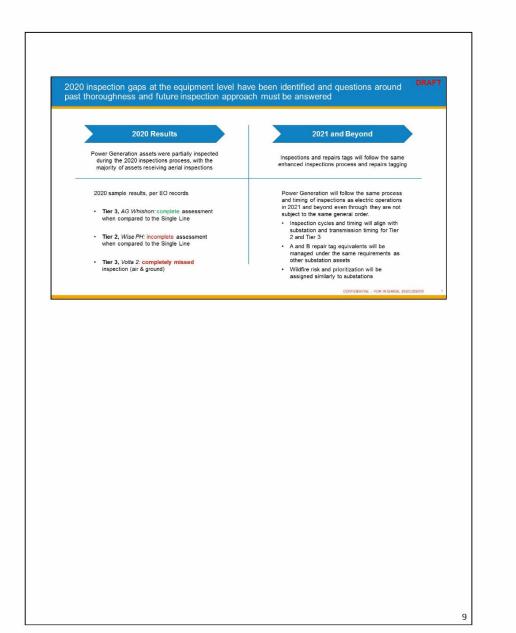


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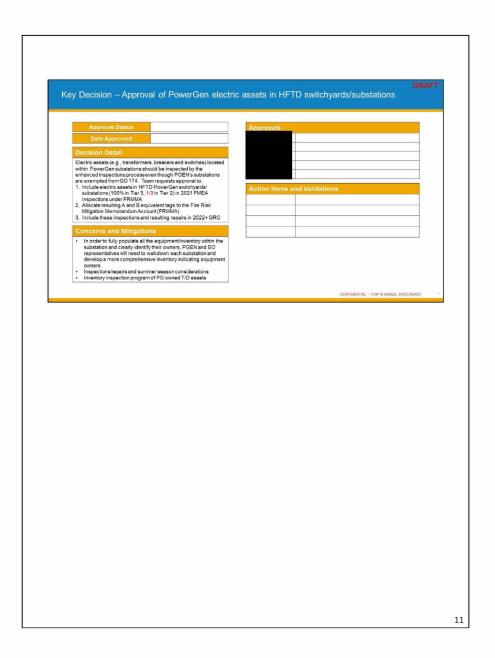


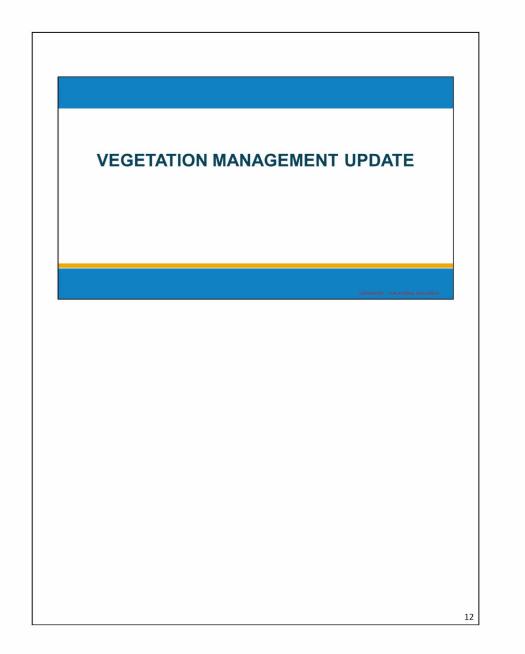




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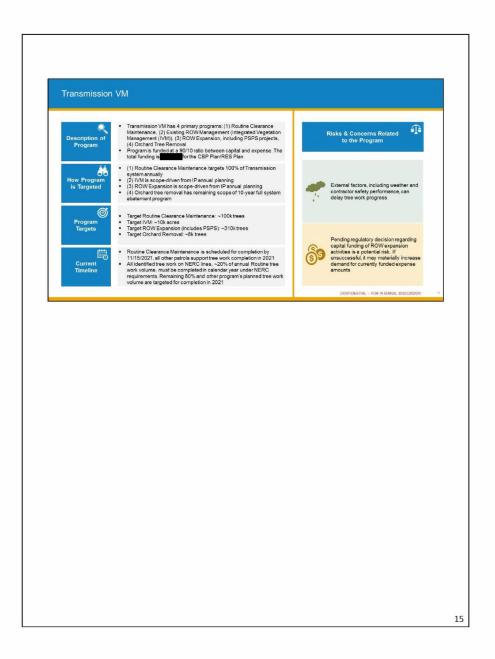
Different focus &	PG's Mismatched	EO better suited for
structure with PG	capabilities	inspections
PG has historically focused on power generation activities across PCASE's service territory from various energy sources Per PCASE Leadership's request in 2020, EC will perform wildfire safety risk inspections, both ground and by drone, of PC facilities starting in 2021 EO's FMEA inspections will be on PC switchyards / substations in the HFTD areas (22/2 Tier 3 sites and 7/40 in Tier 2)	 PG does not have the internal knowledge, skills, and abilities to conduct enhanced inspections consistent with the wildfire FMEA. EO has an earlial and ground enhanced inspection and review capability necessary to manage wildfire risk in PG assets in T2/3 areas PG currently does not have the internal structure, data repositories, or models to appropriately conduct wildfire inspections compared to EO, which also has a more extensive tracking system 	 EO has a compliance requirement to perform inspections per CPUC General Order (GO) 174. PG is exempt from this general order Previously, in 2020 and 2019, EO System Inspectors already completed ground and aerial inspections at PG hydro substations where there are both EO and PG (physically identical) assets EO Is ultimately more a better organization to conduct inspections going forward on PG's assets in 2021 and beyond





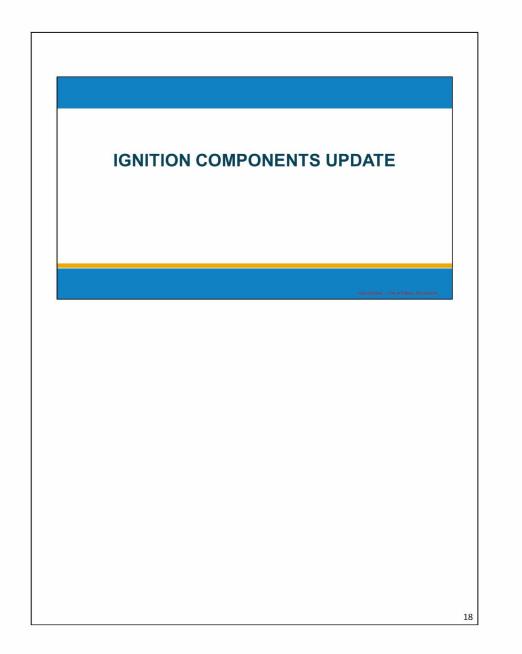


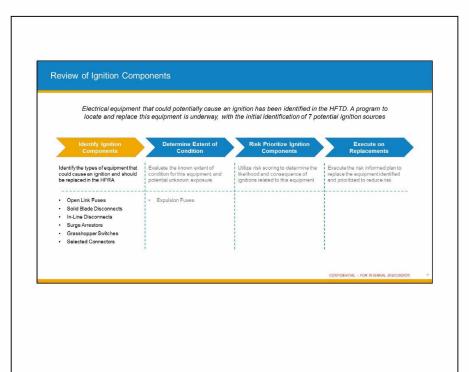




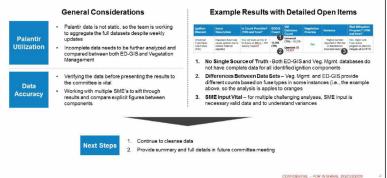






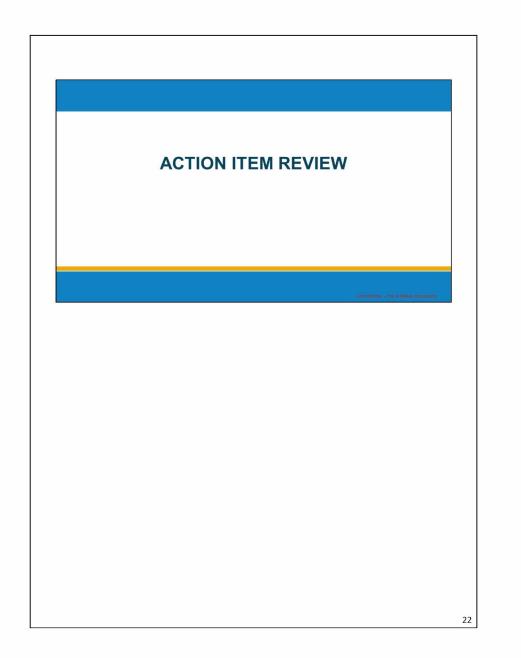


We have begun the identification process, but we are working through challenges in order to present the most accurate, actionable data for discussion

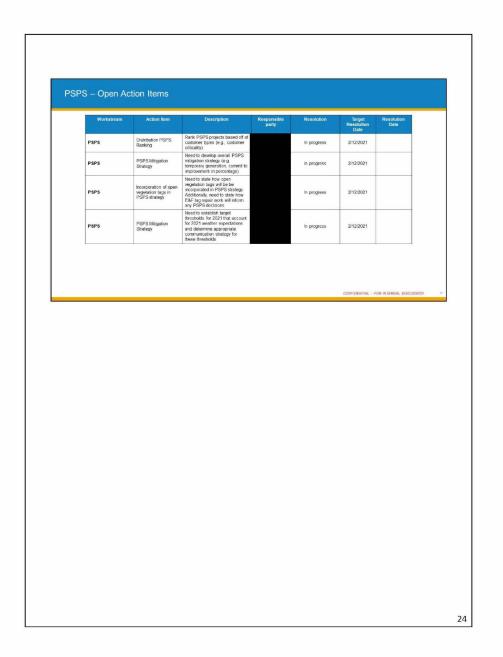


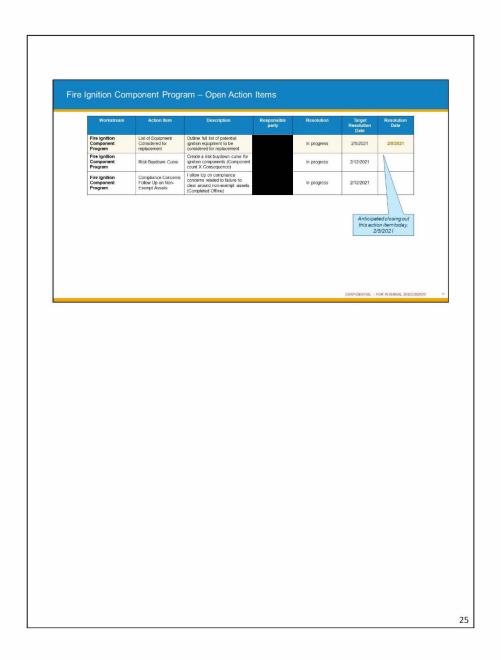
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ome ignition cor							
me ignition components will easier to track due to compliance requirements related to vegetation management							
				kleadily Determine Prioritize Fi			
Ignition Element	Issue Description	Is Count Possible? (Y/N) and how?	Vegetation Clearing	Count Provider	Risk Mitigation Program? (Y/N) and how?		
Open Link Fuses		Yes: A) fuses w/ Op. # B) fuses w/ Xfmrs – VM survey required	Yes	GISSME	Yes: active program in place to mitigate all in HFTD		
Solid Blade Disconnects		Yes: w/ Op. #	Yes	GISSME	No: working to get S/Bs exempted		
In-Line Disconnects		Yes: associated with LR	Yes	GISSME	Yes: program to remove as part of 3A & 4C LR replacements		
Surge Arrestors		Yes: VM survey required	Yes	VM SME	Yes: program to remove S/A's w/ Xfmr shared grounds, but not for standalone S/A's		
Grasshopper Switches		Yes: w/ Op. #	Yes	GISSME	Yes: active program in place to mitigate		
Selected Connectors		Not Likely: maybe possible through GO 165 Inspect Ap	Maybe	P&I SME	Targeted connector replacement as part of GO 165 incidental work		



2021 vuldite mitigation plan Wide mitigation plan review Review glan to kalmo within work. Improvement plan review During work. 2021 vuldite mitigation plan wide for Exclusive summary medice copectations in mitigation plan Improvement plan review Review plan to kalmo within mitigation plan Improvement plan review Review plan to kalmo within plan review 2021 vuldite mitigation plan WFRA incorporation improvement plan to kalmo within mitigation plan Improvement plan review plan to kalmo within mitigation plan Improvement plan review plan to kalmo within mitigation plan Improvement plan in provement plan in pr	Workstream	Action Item	Description	Responsible party	Resolution	Target Resolution Date	Resolution Date
2021 wildlire mitgation plan Include in Encludive sommary bit the PGAE data in the PGAE data on met opportation in WMP complex to provide the source PGAE data on met opportation in WMP table in Encludive sommary and plan in PGAE data on met opportation in WMP table in progress In progress 2/5/2021 2/8/2021 2021 wildlire mitgation plan HFRA incorporation in spectrom plan in geneticine mets to explicitly table HFFA incorporation in progress HFRA incorporation in progress 10 progress 2/5/2021 2/8/2021 2021 wildlire mitgation plan HFRA incorporation in spectrom plan in the organization in progress 10 progress 2/5/2021 2/8/2021 2021 wildlire mitgation plan in BPG comparison of organ SH program cannet SH program In progress 2/5/2021 2/8/2021 2021 wildlire mitgation plan SH program Index of organis SH program and ceplicity ceptain the reduction in mics to 160 miles In progress 2/5/2021 2/8/2021 2021 wildlire mitgation plan SH program Index of organ SH program and ceplicity ceptain the reduction in mics to 160 miles In progress 2/5/2021 2/8/2021	2021 wildfire mitigation plan	Wildfire mitigation plan review	mitigation work with overall EO		In progress		2/5/2021
2021 wildfire mitigation pian zapector pian zapector pian mitigation pian mitigation pian mitigation pian mitigation pian mitigation pian mitigation pian mitigation pian Volume of impectors to be completed by the completed by Sit Dogam with current SI program current SI program mitigation pian In progress 25/2021 25/2021 28/2021 2021 wildfire mitigation pian mitigation pian mitigation pian Opmorphic by Dogam with current SI program current SI program widoktion in mices to 180 mites In progress program widoktion in mices to 180 mites In progress program widoktion pian 25/2021 28/2021	2021 wildfire	Include candid areas where PG&E did not meet expectations in	Include in Executive summary Candid areas where PG&E did not meet expectations in WMP. For example, Veg work not risk based prioritized, gaps on systems inspections, and gaps in quality of veg management		in progress	2/5/2021	2/5/2021
2021 widdling mitigation plan Volume of inspections to be completed by sint so be completed by sint so be completed by sint so be completed by sint so be completed by sint program with current Si P program mitigation plan In progress Sint program so be completed by sint program with current Sint program exclusion in mices to 160 miles In progress In progress In progress 225/3021 282021 2021 widtling mitigation plan Comparison of original Sint program reduction in mices to 160 miles In progress In progress 2/5/2021 282021 Anticipated clearing out those action firms today, 2/5/2021 2/5/2021 2/5/2021	2021 wildfire mitigation plan	inspection plan	Inspections needs to explicitly state HFRA incorporation in inspection plan		In progress	2/5/2021	2/5/2021
2021 wildfre mitigation plan Compution of organal Sit program with current Sit program Instead comparison and ceptoric explain the reduction in miles to 180 miles In progress 2/5/2021 2/8/2021 Anticipated closing out the set of the set of th	2021 wildfire mitigation plan	Volume of inspections to be completed by 9/1	Inspections needs to explicity state the volume of inspections		In progress	2/5/2021	2/5/2021
Anticipated chaing out (hese action/lems today, 2/5/2021	2021 wildfire mitigation plan		Imbed comparison of orginal SH progam with current SH program and explicity explain the		In progress	2/5/2021	2/5/2021
						these toda	actionitems y, 2/5/2021





Workstream	Action Item	Description	Responsible party	Resolution	Target Resolution Date	Resolution Date	
Inspections	Structure count	Number of structures in Tier 3, Tie2 and HFRA and when these structures were/to be completed		In progress	2/5/2021	2/5/2021	
Inspections	Structures below 500KV	What is the volume of structures below 500kV that are similar in design to the 500kV structures - we are climbing 500kV structures to inspect goy wre tensioning		In progress	2/5/2021	2/5/2021	
	Pilots being done in	Find number of structures out and add to the number of structures that needs to be climbed up					
Inspections	Pliots being done in inspection	Summary slide on all the pilot projects Evaluate the outputs of Transmission		In progress	2/5/2021	2/5/2021	
Inspections	Transmission Probability of Failure Model	Evaluate the outputs of Transmission Probability of Farlure model and potential impacts to additional structures incorporated into 2021 plan		in progress	2/5/2021	2/5/2021	
Inspections	Count of non-500 kV Climbing required	Follow up with volume of non-500kV structures that require climbing for 2021 (and add it to plan)		In progress	2/5/2021	2/5/2021	
Inspections	Rate of Degradation Trends WGR - 11/20/2020	Unlike the data-mining pittleman available at PCSE Platerary to understand the rate of degradation of the assarch in the Offinent climatic or other appropriate zones. Herd location- specific organization Data for this analysis needs to come from the following sources -2019 and 2020 EC and LC tags -2019 and 2020 El supection data records - photo's -Asset information available		in progress	2/12/2021	Anticipated o these actio today, 2/5	losing out initems 3/2021

Non-500 kV Internally Guyed Steel Structures

59 non-500 kV internally guyed towers were identified from review of inspection forms and photos (in HFTD).
 52 climbing inspection will be incorporated into 2021 work plan, in addition to planned ground inspection (additional costs approx.

Comparison between 500kV and non-500kV structure designs with internal guys: – 500kV internal guys have target tension (required specific measurements) / non-angle structures. There is no target tension for non-500kV set have are designed for angle and non-angle application.
 Both designs rely on internal guys to maintain structure integrity, but 500kV design is less robust.

Inspection history:

 All 59 structures inspected through WSIP in 2019 (climbing and aerial).
 1 taj for loose guys. 10 other tags on guys (tumbuckle not punched or not enough remaining threads, correded, poor condition), loosemissing bolts.
 loosemissing bolts.
 1 structures inspected in 2020 (ground and serial).
 No new tags.

No guy tags
 No nonconformances on out-of-plumbhwisted/leaning structure or loose/missing bolts.
 S2 structures in 2021 inspection scope (ground, climbing and aeria).

Inspection Future Consideration:

 Conditions that are difficult to identify via ground inspection (loose and missing bolts). These conditions can be caused by ineffective guys or vibration issues.
 Of locations without localized issues or corrective action is implemented (i.e. dampers), then climbing inspections frequency can be reduced.



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