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**From:** [REDACTED]  
**To:** [REDACTED]  
**CC:** [REDACTED]  
**Sent:** 4/28/2021 10:23:20 AM  
**Subject:** RE: April Site Visit Notes

Thanks. Yes let me review and I will get back with you.

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**From:** [REDACTED]  
**Sent:** Tuesday, April 27, 2021 12:49 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** April Site Visit Notes  
**Importance:** High

**\*\*\*\*\*CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.\*\*\*\*\***

The following are [REDACTED] and [REDACTED] notes from the April Site Visit. I've attached my notes as a MS Word file. Do you want to take complete the draft action items, then we can go over together?

[REDACTED] notes....

4/14

Oregon House - EVM

- Risk Ranking of both circuits
- Taking into account dependencies to establish execution schedule
- EVM performance of circuits pre and post mitigation
- SH f/u with WSD
- EVM effectiveness study - how many trees identified as "Do Not Abate" but failed subsequently; implications of some trees in a stand of trees (additional exposure and wind impact)
- Clearance requirement for covered conductor; GO 95 vs PRC 4293

Oroville - Fire Impacted Area (North Complex Fire)

- Patrol frequency as a result of change in conditions (e.g. Fire stress, drought conditions —> bark beetle infestation)
- Coordination between Construction & VM teams during fire rebuild (EOC, REC and OEC)

**PGE-DIXIE-NDCAL-000006875**

- Rebuild decision-making process for OH Hardening vs UG —> e.g. tap line feeding 1 residential customers (~70 to 90 trees @ \$2,400/tree vs hybrid temp gen); consideration of landslide risk as part of mitigation option decisions
- Phase 1 and Phase 2 for fire impacted areas as compared to Priority 1 and Priority 2 —> fire impacted area standards, procedures and training
- ROW fuel management maintenance after hardening (e.g. Manzanita grow back in fire impacted areas)
- Ownership of customer premise temp gen solution as part of fire rebuild process
- Support and focus for 45 miles to address North Complex rebuild

4/15

Magalia

Distribution

- Focus on improving the backlog of addressing map corrections which is impacting the inspection work plan and “skipping” a pole; also impacts customer experience
- Early start on developing the 2022 plan with engagement with the execution teams
- Optimize inspection assignments/ frequency by circuit vs poles in HFTDs
- Multiple tree attachments for services inclusion in the Inspect App is a lengthy process to create EC tag and map correction
- Oro Fino 1101 risk ranking
- Change in SAP ID when a new pole is installed and replaces an existing pole
- Manually tracking for contractors of poles inspected
- Scheduling and Dispatch for the Engage tool
- Manual mapping correction for assets not in SAP (e.g. tree connect, Idle facility)

Transmission

- Consistent process for recording tag completion as part of inspections between T&D and internal vs external
- EC tag layer in T vs D
- EC tags for T by component vs location for D
- Multiple FSRs after several years still not addressed

- Tag priority differences between T (A, B and E) and D (A, B, E and F)
- F/U on Asset Mgt for T-line towers and poles risk analysis
- Structure replacement vs component replacement optimization
- Input from team's closest to the work to inform asset management prioritization
- Connect with SDG&E on Utility Data Lake
- LR correlation to weather stations
- SH portfolio overview and detailed data sharing with WSD
- Share VM and inspections training info

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### System Hardening

- Early engagement with all involved entities
- Conducting coordinated meeting with all external entities on the concept plan and what's needed
- Complex Utility Project Agreement w/ CalTrans (project funding for CalTrans); opportunities for a programmatic agreement
- Review multi-year plan w/ agencies
- Playbook from Bucks Creek 1101 distribution SH applied to all similar projects
- Cresto Dam switch yard validation to capture non-exempt expulsion fuses

### Drone Inspections

- Access to towers from customer parcel
- Daily flight plans
- CGI hotline
- Sat phone where there is no signal
- Sharings between QC and drone teams

Notes...

4/14

Oregon House/EVM

- Owl in tree. Job packet 6 Hold. How do you validate hold trees have been resolved?
- 2nd site. We remove trees or move it -not consistent.
- Slash can act as western pine beetle (ips) breeding grounds.
- Hoopa example for VM (Check w/ [REDACTED])
- Atlas Services 60% fail to 90% pass. Work verification on EVM.

#### Oroville/North Complex Rebuild

- North complex rebuild. Should we up inspections based on strategy
- Team work pointed out
- Adapt process. Trees out before lines.
- Culture shift helped on this project
- Permitting process for example fwd. [REDACTED]
- Lake Madrone- showed the danger of rebuild oh and ability to go underground.

4/15

#### Magalia/Distribution OH Inspections

- Contractor does more than inspections. Any conflict?
- How does [REDACTED] rank among inspectors.
- They are skipping poles due to planning. This is very inefficient - mapping seems to be back up
- Dedicated team needed planning inspections-ap improvement
- Need to start next years plan asap after insp done. [REDACTED]
- Big impact to customers. Planning problem **NEED TO HAVE PLANNING FIX T2T3**
- There are tree attachments -no easy way to do it.
- **STILL DONT HAVE UPDATED TECHNOLOGY (iPads/iPhones)**
- When there's an issue, Days to get resolved. Less frequent.
- Orafino 1101 what is plan for hardening
- Contractors work quality- seems to be a gap between SR mgt and field. Field needs assurances around wa/qc to gain confidence in process. Need metrics for contractor, region, and inspector.
- Denergized lines do not get vm. Could cause grounding issues

## Table Mountain Sub/Transmission Inspections

- Trans pole leaning E tag for several years
- What is cpuc tag requirement.
- E tags causing folks to feel disenfranchised
- On transmission inspect. They don't review or comment on tags "have the option " to upgrade a tag. Not very enthusiastic about it
- E tags, what is back log. FSRs, how are we dealing with those.
- Transmission inspect ap doesn't link work separate LC's things
- Can inspect planning and const planning be leveled over 12 months?
- CERT stops some of the replacements

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## Feather River Canyon/Bucks Creel 1101 System Hardening

- Need to get permitting issues upfront. For forest service. Frogs, botany, cultural etc.
- Key to have point person. Upfront meetings. Set a procedure to follow
- Involve agencies early. Preliminary docs. Make them part of the process
- Complex utility const agreement (Caltrans)
- Blanket agreement w Cal Trans. That is what we have with forest service. 5 yr agreement.
- Boxes on current project above grade. Snow removal issue.
- Do we have a play book for these projects (Task force)
- Helicopter landing zone for Calfire Issue with riser over river
- Get this landing spot to Caltrans these type of spots first
- Expulsion fuses at hydro sites. Not inspected.



