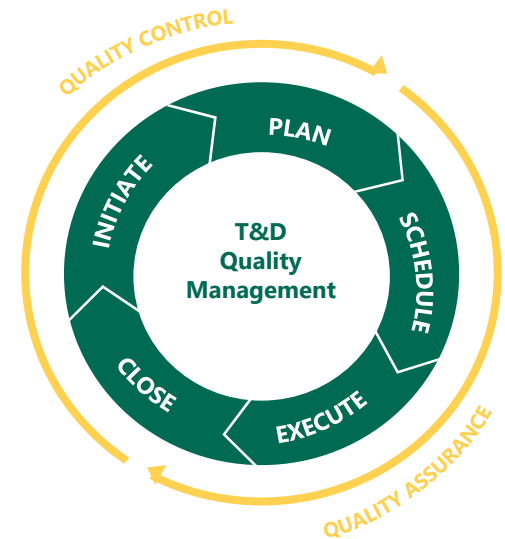


T&D SLT QA/QC Report Out

August 13, 2020



Energy for What's AheadSM



Quality Update – Highlights

Power BI Dashboard

- Contractor information added to the dashboard data set on 8/7 to allow filtering of results by Contractor.

Overhead Detailed Inspections

- The overall QC score for the "Very High" risk area (98%+ REAX) dropped below the Threshold Level of 98% for the first time in June with a score of 97.3% and held steady in July.
- The decline for June was attributed to performance in Arrowhead (94.4%) and Redlands (95.9%).
- Top findings were related to Third Party Notifications (17), Crossarm Damaged (11), and Service/Secondaries damaged/clearance (these four metrics combined for a total of 23 items).
- Quality is working with ODI leadership to understand drivers and take actions to improve performance.

Transmission QC Inspections

- Pilot quality plan approved, kick-off meeting with sponsor and business team completed.
- Starting to perform QC inspections this week.

Distribution Planning QC Program

- QC of distribution planning to resume on 8/17 utilizing lessons learned from Pilot.
- Phase 1 of the Planning QC program will address 100% of the critical/actionable finding types identified in the pilot and other identified design conformance issues.
- Phase 2, beginning November 2020, will expand the program to encompass end-to-end design review and evaluation for adherence to DDS, DOH, DUG and Pole Loading for distribution work orders.

Maintenance Notifications QA Assessment – Pilot

- Over 1000 notifications reviewed to date.
- Identified 6 notifications cancelled incorrectly (all by one gatekeeper), and further analysis found a total of 43 cancelled incorrectly over the past 18 months.
- All cancelled Notifications have been corrected and gatekeeper has been trained on proper procedure.
- Findings to be shared with ALL gatekeepers at the next monthly meeting.

YTD QC Results

[Power BI Dashboard - Link](#)

- Completed 62% of Planned Inspections YTD
- Inspected 1,265 more than monthly avg

27,016

Total Planned QC Inspections

17,025

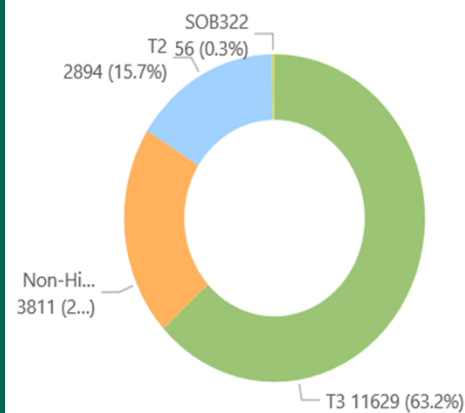
Completed QC Inspections

9,991

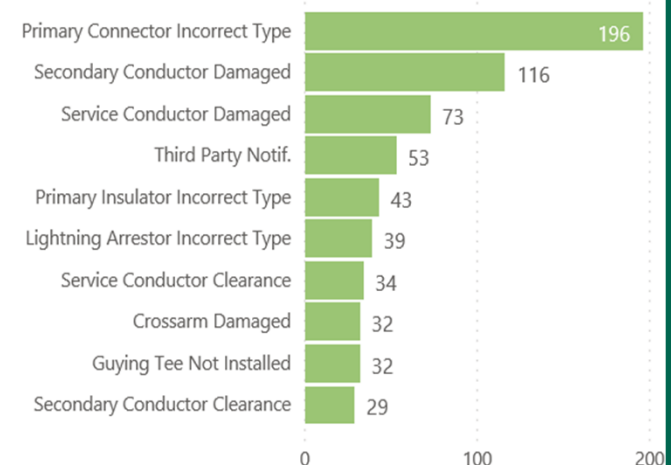
Remaining QC Inspections

Header	QC Structures Inspected	P1		P2		P3		Actionable Findings	
Program Name		Count	CR %	Count	CR %	Count	CR %	Open Count	Overdue Count
Distribution Construction	2,674	4	99.9%	625	80.9%	1,174	69.0%	426	244
Transmission Construction	476	0	100.0%	32	93.5%	56	89.7%	25	12
Aerial Distribution	586	0	100.0%	8	98.6%	0	100.0%	8	8
ODI	12,925	4	100.0%	364	97.4%	405	97.2%	355	44
Intrusive	364	0	100.0%	2	99.5%	15	95.9%	0	0

QC Inspections by High Fire Tier Level



Top 10 P1 & P2 Finding Categories



YTD QC Results (Dist. Construction)

[Power BI Dashboard - Link](#)

2,674

Total Inspections

2,153

Pass Total

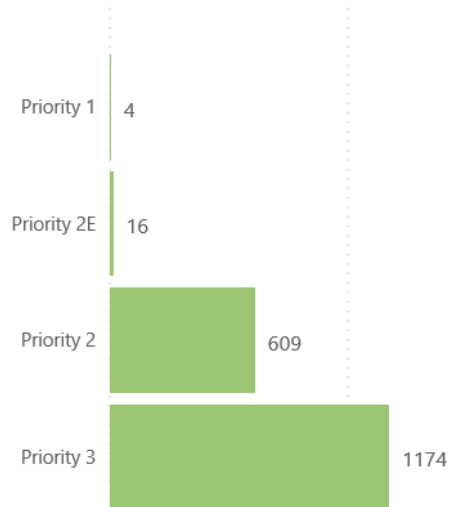
521

Non-Conformances

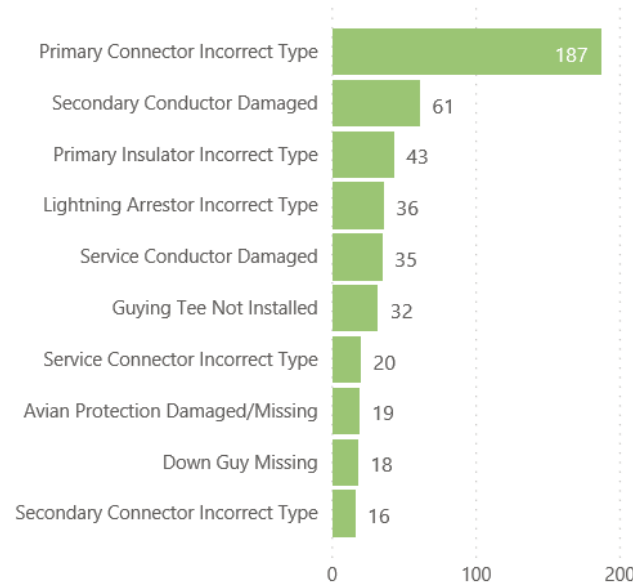
80.8%

CR% Actionable Total

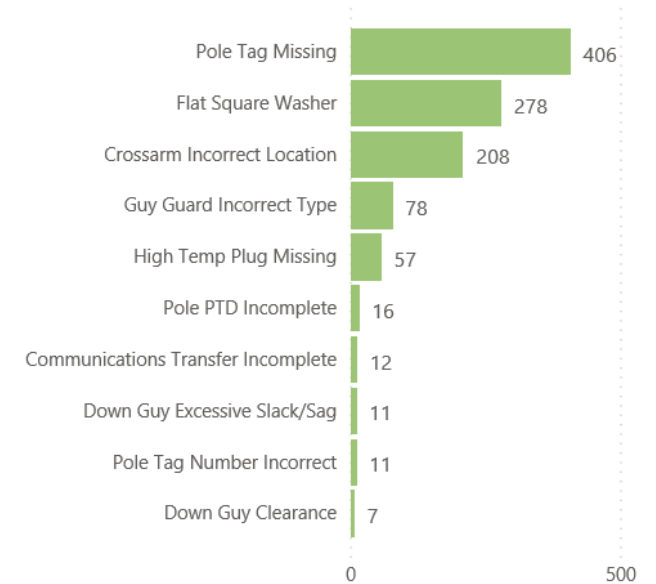
Non-Conformances by Priority



Top 10 P1 & P2 Finding Categories



Top 10 P3 Finding Categories



- Possible causes for low CR%:
- Low sample size in "Very High" geographical risk area in July
- 'Primary Connector Incorrect Type' finding declining
- July inspections: only in North Coast, Rurals, & Desert Regions

Program Name - REAX Score	Structures				Actionable Findings						P3/Observational Outcomes		
	Total QC Inspections	Actionable NC	Actionable CR	Threshold Limit	Priority 1	Priority 2E	Priority 2	Actionable Findings	Open Findings (Past Due)	Past Due Findings	Observational NC	Observational CR	Observational Findings
Distribution Construction (Very High)													
Very High	111	34	69.4 %	100.0 %	0	0	43	43	33	17	53	52.3 %	82
High	220	37	83.2 %	98.0 %	0	0	42	42	36	23	108	50.9 %	145
Medium	1,651	316	80.9 %	95.0 %	3	10	371	384	266	139	472	71.4 %	688
Low	692	134	80.6 %	95.0 %	1	6	153	160	91	65	195	71.8 %	259
Total	2,674	521	80.5 %		4	16	609	629	426	244	828	69.0 %	1,174

YTD QC Results (ODI)

[Power BI Dashboard - Link](#)

13K

Total Inspections

13K

Pass Total

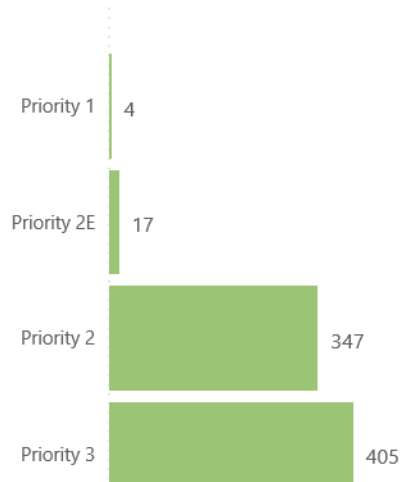
339

Non-Conformances

97.4%

CR% Actionable Total

Non-Conformances by Priority



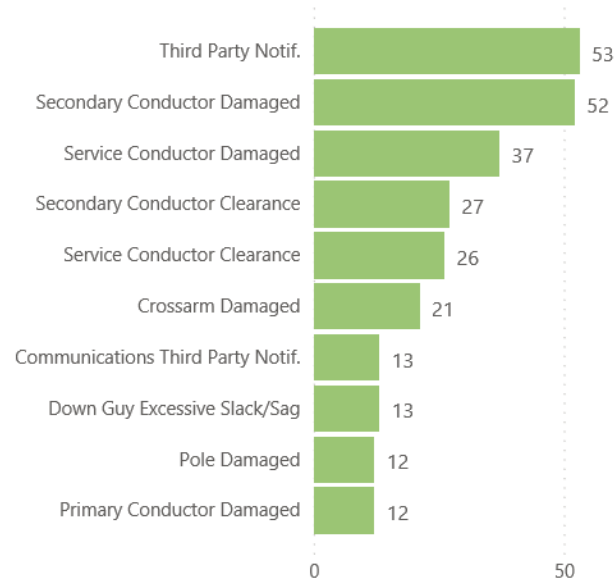
Possible causes for low CR%:

- Low scores from 2 Districts driving results - working w/ODI leadership to understand drivers and take corrective action

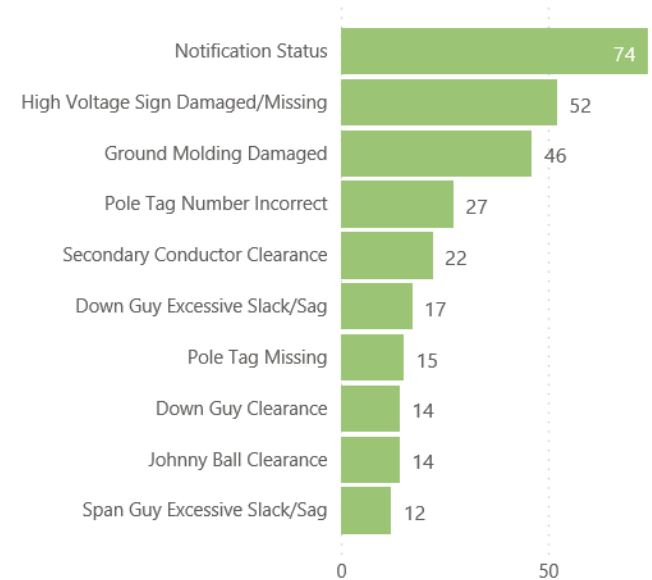
Action taking to improve:

- Adding Inspector names to report for visibility

Top 10 P1 & P2 Finding Categories

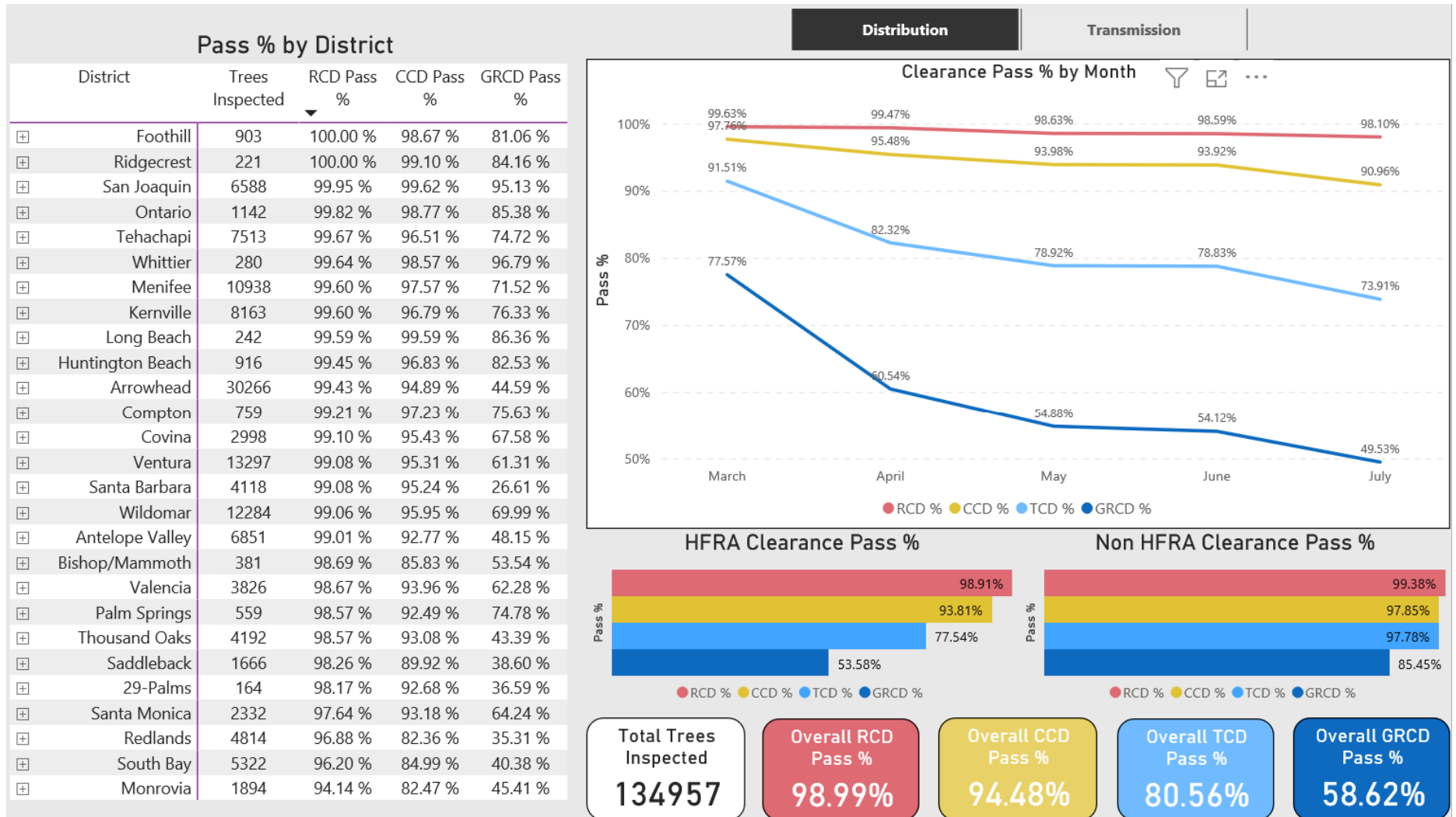


Top 10 P3 Finding Categories



Structures					Actionable Findings						P3/Observational Outcomes		
Program Name - REAX Score	Total QC Inspections	Actionable NC	Actionable CR	Threshold Limit	Priority 1	Priority 2E	Priority 2	Actionable Findings	Open Findings (Past Due)	Past Due Findings	Observational NC	Observational CR	Observational Findings
ODI (High)													
Very High	7,031	185	97.4 %	98.0 %	1	8	189	198	193	18	201	97.1 %	226
High	5,559	141	97.5 %	95.0 %	2	8	146	156	150	14	144	97.4 %	158
Medium	322	13	96.0 %	95.0 %	1	1	12	14	12	12	16	95.0 %	19
Low	13	0	100.0 %	90.0 %	0	0	0	0	0	0	2	84.6 %	2
Total	12,925	339	97.4 %		4	17	347	368	355	44	363	97.2 %	405

YTD Vegetation Performance – Distribution



- July observed a further decline in RCD performance from 98.59% to 98.10%. At this time it is difficult to determine why we are seeing the decline as most of our contractors' individual performance also declined. Could be attributed to seasonal growth conditions and line dynamics.

Compliance Zone		HFRA	Non-HFRA
D	RCD = Regulation Clearance Distance	4'	18"
	CCD = Compliance Clearance Distance (RCD x 1.5)	6'	3'
	TCD = Trigger Clearance Distance (CCD + 3')	9'	N/A
	GRCD = Grid Resiliency Clearance Distance	12'	6'

YTD data reflects work completed in 2020 only. This does not include any January/February report data

Energy for What's AheadSM

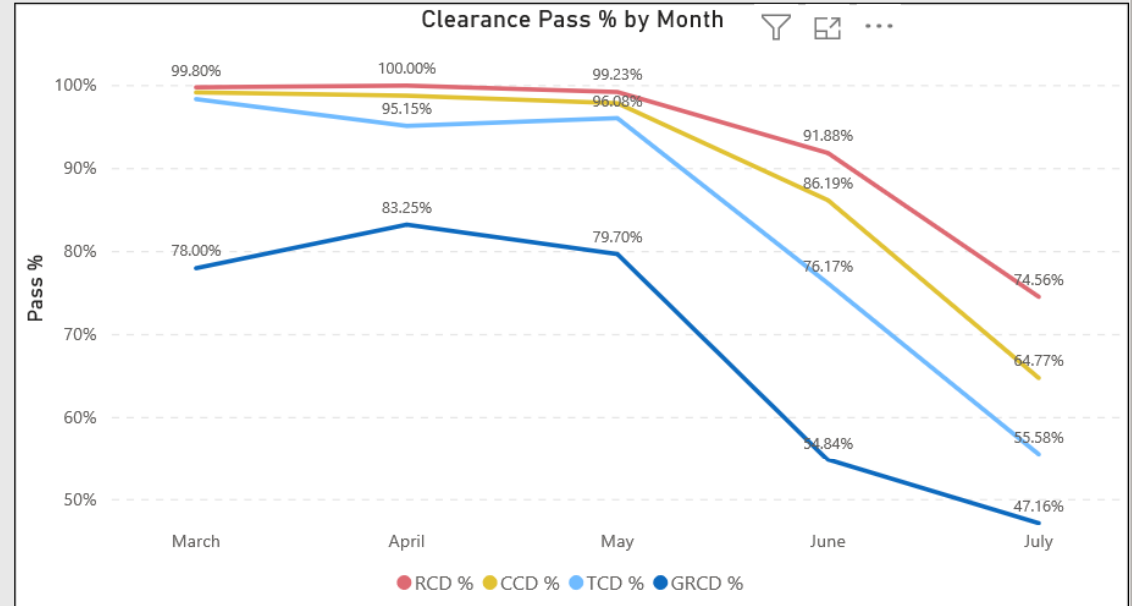
YTD Vegetation Performance – Transmission

Pass % by District

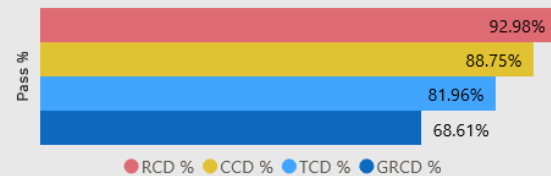
District	Trees Inspected	RCD Pass %	CCD Pass %	GRCD Pass %
Menifee	120	100.00 %	95.83 %	54.17 %
Palm Springs	169	100.00 %	99.41 %	91.12 %
Thousand Oaks	414	99.76 %	98.55 %	87.68 %
Ventura	367	99.73 %	99.18 %	37.60 %
Saddleback	618	99.19 %	97.09 %	72.49 %
Ontario	372	98.92 %	98.92 %	81.45 %
Antelope Valley	483	91.30 %	79.92 %	45.13 %
Valencia	417	78.18 %	72.42 %	66.19 %
San Joaquin	252	62.30 %	53.97 %	46.43 %

Distribution

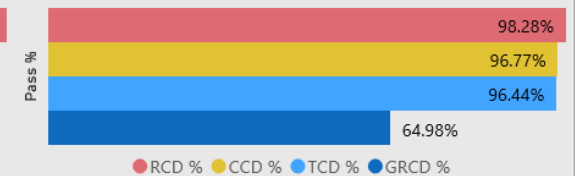
Transmission



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected
4506

Overall RCD Pass %
94.09%

Overall CCD Pass %
90.42%

Overall TCD Pass %
84.98%

Overall GRCD Pass %
67.85%

- July observed a further decline in RCD performance from 91.88% to 74.56%. This was attributed to:
 - Issues with Sag/Sway versus LiDAR usage and improper implementation of LiDAR during the Pre-Inspection process
 - (lot of missed trees relates to a low RCD) – same circuits that were identified in the June report; addressed in action plan

Compliance Zone	HFRA
RCD = Regulation Clearance Distance	10'
CCD = Compliance Clearance Distance (RCD x 1.5)	15'
TCD = Trigger Clearance Distance (CCD + 3')	18'
GRCD = Grid Resiliency Clearance Distance	30'

Maintenance Notification QA Pilot

Examples of Notifications found:

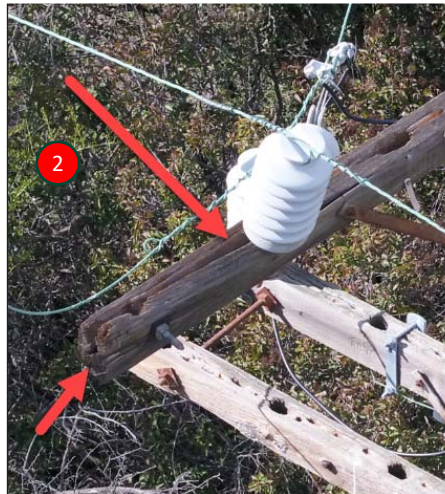
#1

- Status: Rejected/Delete Flag
- REAX+: Very High (Extreme HF)
- QA Recommend: Expedite
- QA Issue Type: Fire Risk (safety)



#2

- Status: REAP/NOPR
- REAX+: Medium (Extreme HF)
- QA Recommend: Expedite
- QA Issue Type: Fire Risk



#3

- Status: Rejected/Delete Flag
- REAX+: Very High (Extreme HF)
- QA Issue Type: Safety Risk

