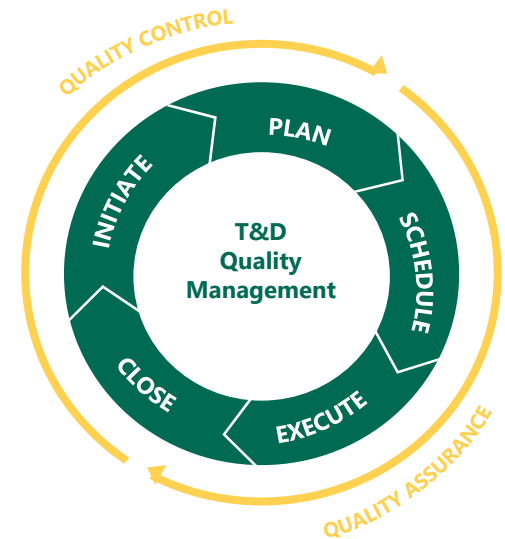


T&D SLT QA/QC Report Out

September 16, 2020



Energy for What's AheadSM



Quality Update – Highlights

Power BI Dashboard

- Contractor information added to the dashboard data set on 8/7, working to add filtering capability

Overhead Detailed Inspections

- For the past three months the overall QC score has dropped below the Threshold level (98%) in the "Very High" risk area (top 2% of REAX)
 - Score of 97.3% in June/July and 96.6% in August
- In this three-month period, the top findings were related secondary Conductor Damage (38), Service Conductor Damage (38), Third Party Notifications (33), and Service/Secondaries damaged/clearance (these four metrics combined for a total of 43 items)
- Quality is working with ODI leadership to understand drivers and take actions to improve performance

Distribution Planning QC Program *

- Performed 38 inspections in August identifying 8 P1 and 8 P2 findings for a QC score of 57.9%
- Findings include failing safety factor (3), conductor damage (3), incorrect pole size (2), buried anchor (1), and other findings (7)
- By YE program will expand to encompass end-to-end design review and evaluation for adherence to DDS, DOH, DUG and Pole Loading for distribution work orders

Transmission QC Inspections – Pilot

- Completed 219 inspections in August identifying 1 P2 finding for a QC score of 99.5%.
- Program is exceeding the Threshold Level in all categories

Maintenance Notifications QA Assessment – Pilot

- Approximately 1700 notifications reviewed YTD, identifying 11 Fire Risk and 5 Safety Risk findings, for a QC score of 99.0%
- Findings to be shared with ALL gatekeepers at the next quarterly gatekeeping meeting

* Pending final calibration of findings.

27,016

Total Planned QC Inspections

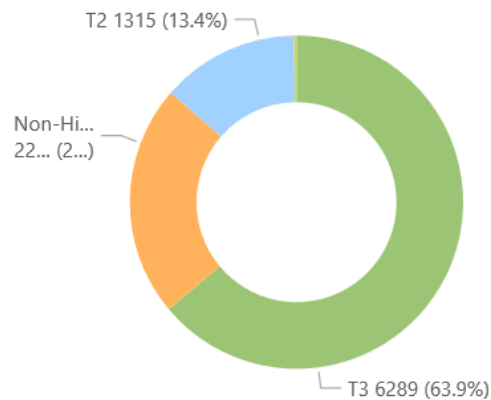
19,645

Completed QC Inspections

7,371

Remaining QC Inspections

QC Inspections by High Fire Tier Level



Program Performance – BI Dashboard Aug YTD

Header	QC Structures Inspected	P1		P2		P3		Actionable Findings	
Program Name		Count	CR %	Count	CR %	Count	CR %	Open Count	Overdue Count
Distribution Construction	2,917	5	99.8%	727	80.1%	1,170	70.9%	433	276
Transmission Construction	476	0	100.0%	33	93.3%	54	89.9%	23	12
Aerial Distribution	586	0	100.0%	8	98.6%	0	100.0%	8	8
ODI	15,220	4	100.0%	444	97.3%	509	97.0%	432	67
Intrusive	448	0	100.0%	3	99.3%	15	96.7%	1	0

Other Programs - Not in BI Dashboard

Header	QC Structures Inspected	P1		P2		P3		Actionable Findings	
Program Name		Count	CR %	Count	CR %	Count	CR %	Open Count	Overdue Count
Transmission Inspections	219	0	100.0%	1	99.5%	5	97.7%	1	0
Planning	38	8	78.9%	8	78.9%	0	100.0%	16	0
Pole Loading	600	0	100.0%	45	92.5%	0	100.0%	15	0

YTD QC Results (Dist. Construction)

[Power BI Dashboard - Link](#)

2,917

Total Inspections

2,326

Pass Total

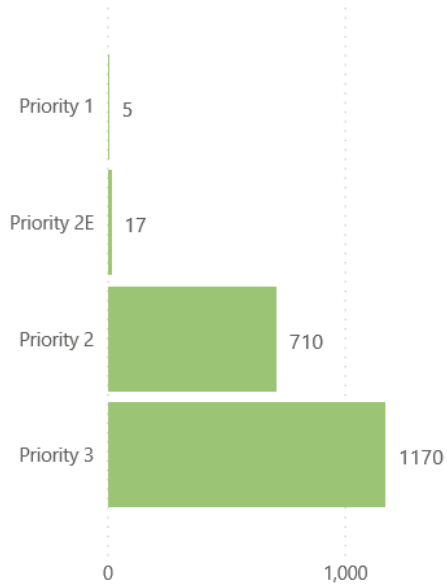
591

Non-Conformances

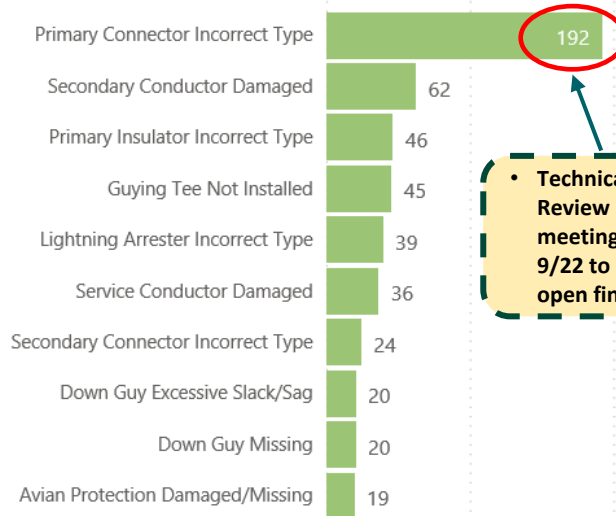
80%

CR% Actionable Total

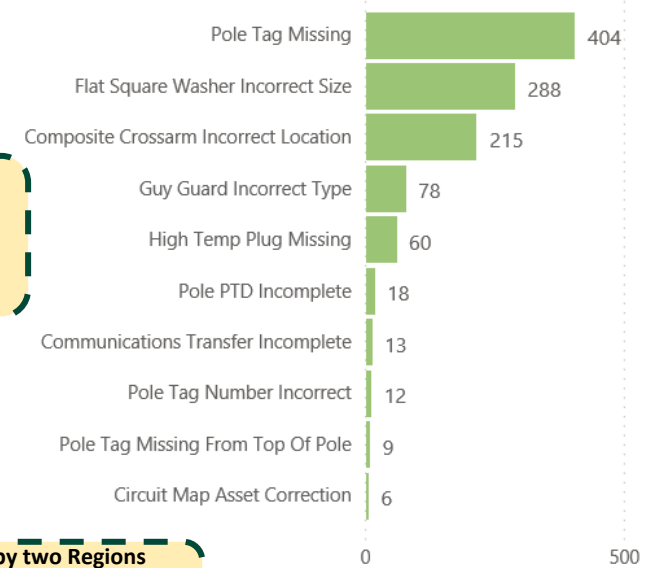
Non-Conformances by Priority



Top 10 P1 & P2 Finding Categories



Top 10 P3 Finding Categories



• Technical Review Board meeting on 9/22 to resolve open findings

YTD performance scores primarily impacted by two Regions

- Avg. Conformance Rate in Rurals and Metro East - 70.6%
- Avg. Conformance Rate in all other Regions - 88.2%

- Low sample size is possible cause for low CR% in "Very High" area

Program Name - REAX Score	Total QC Inspections	Actionable NC	Actionable CR	Threshold Limit	Actionable Findings						P3/Observational Outcomes		
					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	158	48	69.6 %	100.0 %	1	1	65	67	51	29	53	66.5 %	74
High	415	81	80.5 %	98.0 %	0	0	97	97	85	29	137	67.0 %	179
Medium	1,652	321	80.6 %	95.0 %	3	10	385	398	222	162	469	71.6 %	670
Low	692	141	79.6 %	95.0 %	1	6	163	170	75	56	190	72.5 %	247
Total	2,917	591	79.7 %		5	17	710	732	433	276	849	70.9 %	1,170

YTD QC Results (ODI)

[Power BI Dashboard - Link](#)

15K

Total Inspections

15K

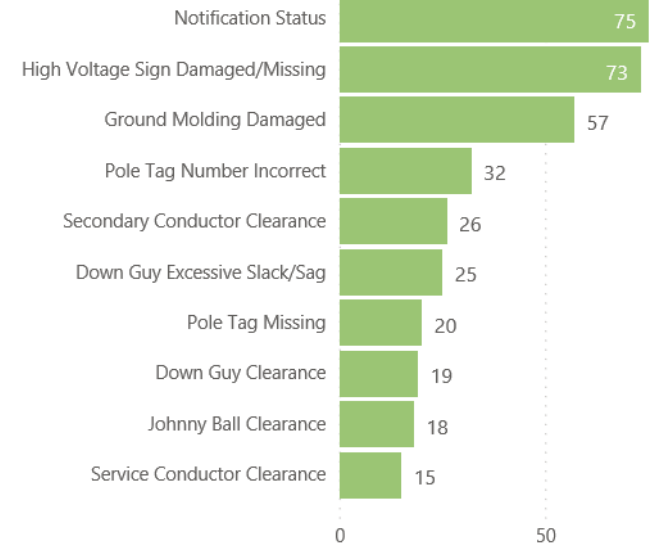
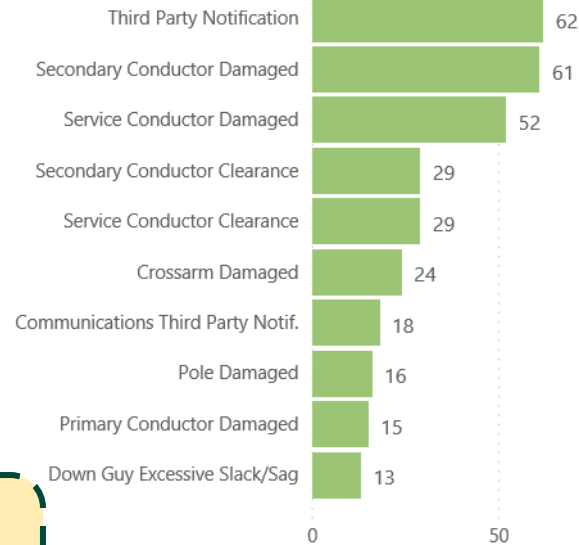
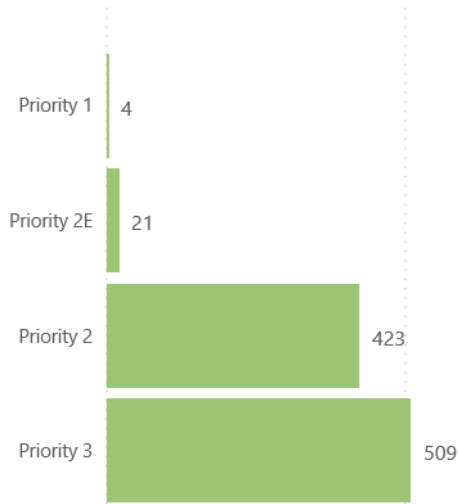
Pass Total

415

Non-Conformances

97.3%

CR% Actionable Total



Possible causes for low CR%:

- Low scores from 2 Districts driving results
- Working w/ODI leadership to understand drivers and take corrective action
- Adding Inspector names to report for visibility

					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	7,479	215	97.1 %	98.0 %	1	9	220	230	225	30	240	96.8 %	273
High	7,397	187	97.5 %	95.0 %	2	11	191	204	196	26	200	97.3 %	215
Medium	322	13	96.0 %	95.0 %	1	1	12	14	11	11	16	95.0 %	19
Low	22	0	100.0 %	90.0 %	0	0	0	0	0	0	2	90.9 %	2
Total	15,220	415	97.3 %		4	21	423	448	432	67	458	97.0 %	509

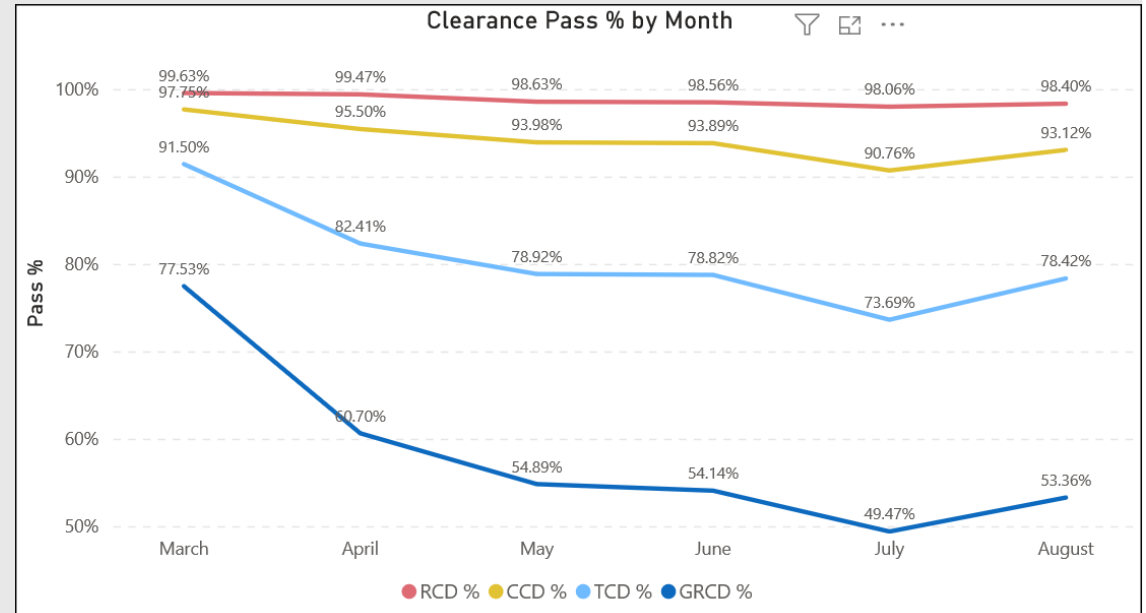
August YTD VM Performance – Distribution

Pass % by District

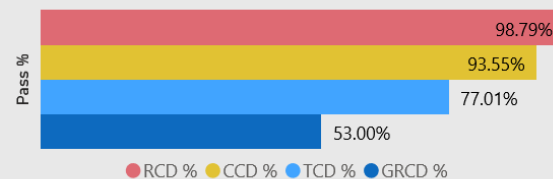
District	Trees Inspected	RCD Pass %	CCD Pass %	GRCD Pass %
Big Creek	102	100.00 %	97.06 %	33.33 %
Foothill	903	100.00 %	98.67 %	81.06 %
Fullerton	187	100.00 %	100.00 %	91.44 %
Ridgecrest	228	100.00 %	99.12 %	82.89 %
San Joaquin	10048	99.92 %	99.52 %	91.20 %
Tehachapi	7611	99.67 %	96.54 %	75.05 %
Whittier	280	99.64 %	98.57 %	96.79 %
Ontario	1676	99.64 %	98.51 %	84.07 %
Kernville	8163	99.61 %	96.79 %	76.33 %
Menifee	11105	99.60 %	97.60 %	71.95 %
Huntington Beach	916	99.45 %	96.83 %	82.53 %
Arrowhead	36967	99.45 %	94.99 %	42.89 %
Compton	766	99.22 %	97.26 %	75.85 %
Covina	4944	99.13 %	95.95 %	69.76 %
Antelope Valley	9520	99.11 %	94.16 %	52.53 %
Wildomar	12343	99.06 %	95.97 %	70.07 %
Ventura	13838	99.05 %	95.34 %	61.72 %
Long Beach	476	98.95 %	97.48 %	77.73 %
Thousand Oaks	5024	98.79 %	93.85 %	43.35 %
Palm Springs	1357	98.75 %	93.44 %	60.80 %
Valencia	4542	98.63 %	94.06 %	61.78 %
Santa Barbara	9431	98.58 %	94.21 %	40.24 %
Saddleback	1666	98.26 %	89.92 %	38.60 %
29-Palms	164	98.17 %	92.68 %	36.59 %
Bishop/Mammoth	748	98.13 %	83.69 %	53.48 %
Santa Monica	2332	97.64 %	93.18 %	64.24 %
South Bay	6161	95.99 %	83.54 %	39.67 %
Redlands	8402	95.75 %	79.90 %	34.11 %
Monrovia	2132	93.81 %	82.88 %	48.31 %

Distribution

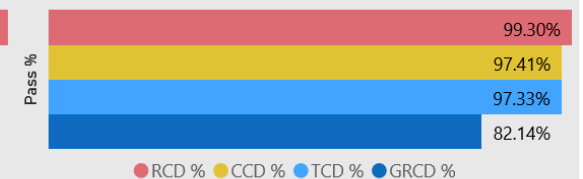
Transmission



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected
165418

Overall RCD Pass %
98.88%

Overall CCD Pass %
94.20%

Overall TCD Pass %
80.07%

Overall GRCD Pass %
57.65%

	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

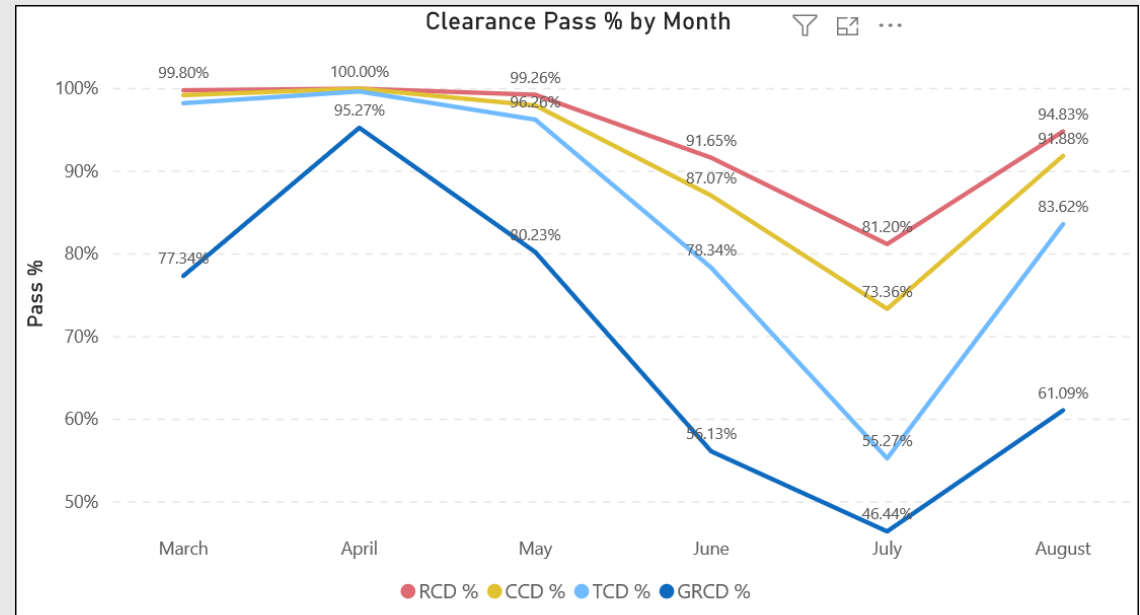
August YTD VM Performance – Transmission

Pass % by District

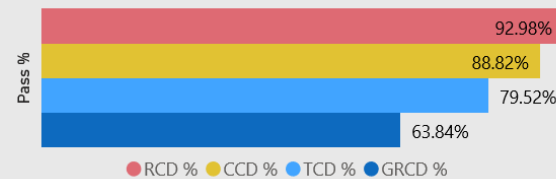
District	Trees Inspected	RCD Pass %	CCD Pass %	GRCD Pass %
[+] Bishop/Mammoth	937	100.00 %	99.79 %	62.75 %
[+] Long Beach	188	100.00 %	100.00 %	94.15 %
[+] Palm Springs	169	100.00 %	99.41 %	91.12 %
[+] Whittier	150	100.00 %	100.00 %	98.67 %
[+] Thousand Oaks	414	99.76 %	98.55 %	87.68 %
[+] Ventura	367	99.73 %	99.18 %	37.60 %
[+] Kernville	353	99.72 %	99.72 %	99.15 %
[+] South Bay	247	99.60 %	99.60 %	30.77 %
[+] Ontario	665	99.25 %	99.25 %	76.54 %
[+] Santa Ana	303	98.68 %	97.69 %	86.80 %
[+] Monrovia	872	94.61 %	90.94 %	47.25 %
[+] Antelope Valley	730	90.68 %	83.15 %	50.55 %
[+] Saddleback	1154	86.92 %	80.94 %	54.25 %
[+] Valencia	415	78.07 %	72.29 %	66.02 %
[+] San Joaquin	283	60.07 %	48.76 %	41.34 %

Distribution

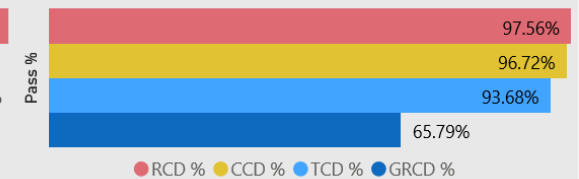
Transmission



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

9367

Overall RCD Pass %

94.46%

Overall CCD Pass %

91.37%

Overall TCD Pass %

84.09%

Overall GRCD Pass %

64.47%

	Compliance Zone	HFRA
T	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'