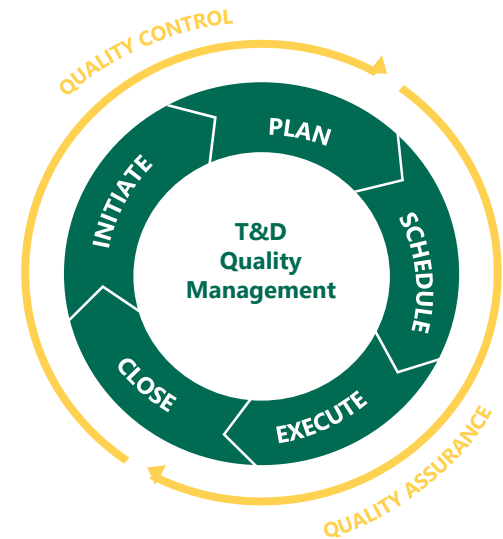


T&D SLT QA/QC Report Out

October 6, 2020



Energy for What's AheadSM



Quality Update – Highlights

Distribution Construction

- Due to COVID related delays/restrictions, access to Distribution Construction work order documents have been challenging
- Implementing alternate approach for Distribution Construction Inspections in October
 - Will improve timeliness of inspection results
 - Focusing on GO 95 rules and applicable SCE standards (safety & reliability)

ODI data and insights

- 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.
- Our reporting is being modified to allow filtering of NCs by Region, District, Supervisor, and Inspector

Corrective Action / Preventive Action (CAPA) Program

- CAPA Program implemented including the NEW [CAPA Cause Evaluation portal page](#)
- In collaboration with the AMSE Transformation Office teams, we announced the inclusion of Cause Evaluation requests into the [T&D Request Intake Form](#)
 - This is central location where all Cause Evaluations requests for Nonconformance or Significant events are to be submitted (not for injury/illness events)

Distribution Planning QC Program

- Initial findings were reviewed with Planning Stakeholders
- Additional engagement with the Redlands District, where majority of findings were located (Note – this was their first exposure to this program and associated findings)

Transmission QC Inspections – Pilot

- The Pilot is complete with nearly 400 inspections and a QC score of 99.5% (exceeding the TL in all categories)
- Next steps include finalizing the back-office data management programs, including Power BI

Power BI Update

[Power BI Dashboard - Link](#)

- The filter is now in place for Contractors
- The BI Team has left the current Power BI Dashboard public but duplicated it directly below (see screen shot) in a Restricted space, so that the filter can be applied as desired
- All metrics will reflect selections made in the filter

Left Sidebar:

- T&D Data Visualization III
- 2020 Quality Control Program... (crossed out)
- All Programs (crossed out)
- Program Details (crossed out)
- 2020 Quality Control Program... (active)
- All Programs
- Program Details
- Quality Assurance Dashboard
- Lamp_Refresh

Top Header: Welcome to Power BI Take a tour, and we'll show you how to get around. [Start tour](#)

Table 1: Summary Data

Location	San Joaquin	Shaver Lake	Tulare	February	Total
Count	0	0	0	66	312
Percentage	0	0	0	27	120
Percentage	0	0	0	59.1%	61.5%
Count	0	0	0	4	2
Count	0	0	0	28	13
Count	0	0	0	32	126
Count	0	0	0	1	141
Count	0	0	0	1	36
Count	0	0	0	25	33
Percentage	NaN	NaN	NaN	62.1%	75.6%
Count	0	0	0	32	95

Table 2: Inspection Details

Structure	QC Inspection Date	Region	District	Tier Level	REAX+
1049252E	1/23/2020 10:12 PM	Metro East	Monrovia	T3	Medium
1091985E	1/23/2020 9:57 PM	Metro East	Monrovia	T3	Medium
1130522E	2/27/2020 12:00 AM	Metro East	Monrovia	T3	Medium

Filter: Contractor

Contractor Nan

Filter Options:

- Select all
- Danella
- DUS
- EPC
- Faith Electric
- ☒ H&M
- Hot Line
- Hotline
- Outsource
- ...

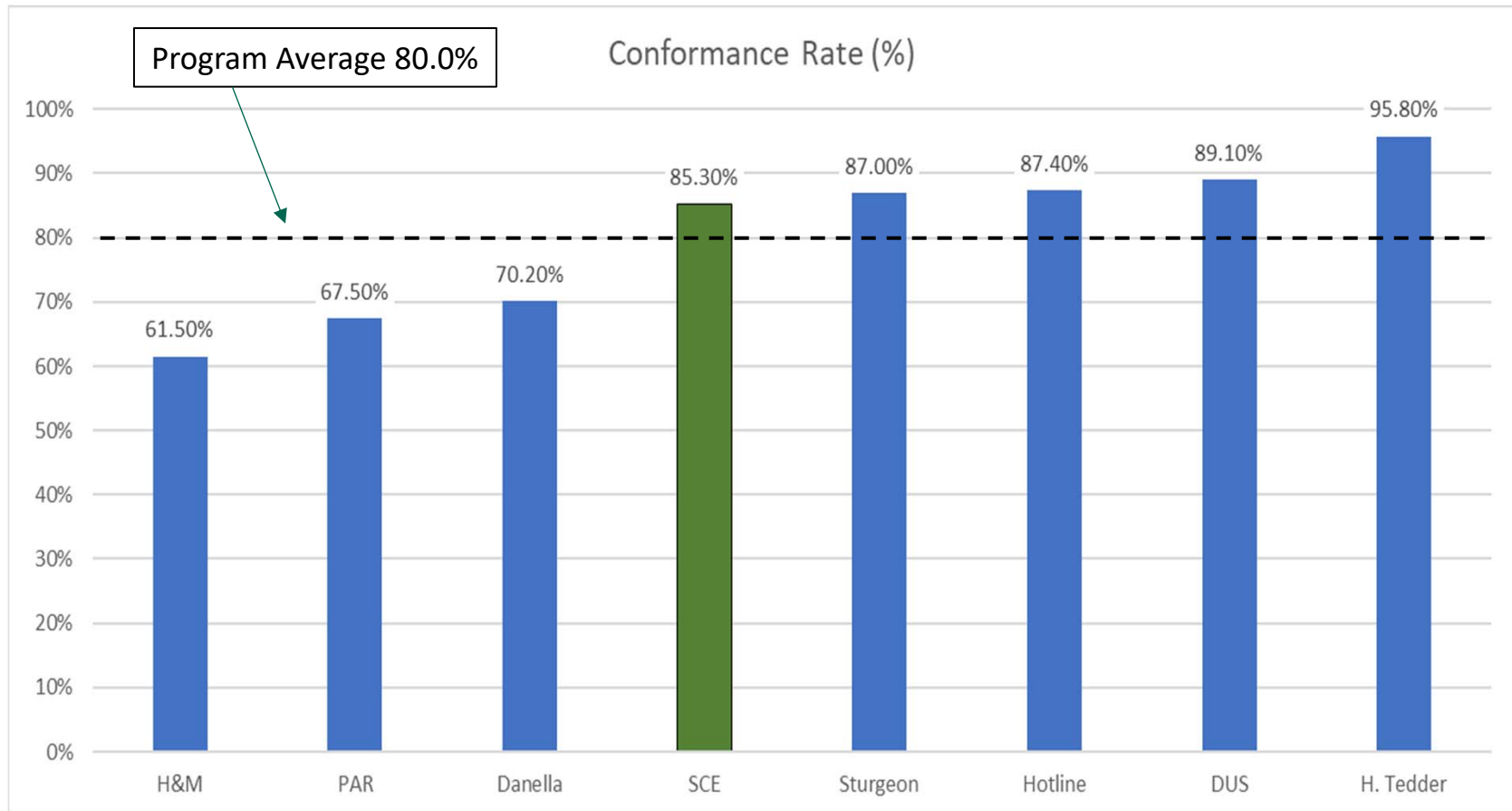
Table 3: Inspection Details (Continued)

Remarks	Finding C.
high temperature pole hole plug missing in composite pole.	High Temp Plug
protective tubing required on disconnect center phase jumper.	Avian Protection Damaged/Missir
automatic splices left on primary line - located between structures 1130522E and 1130521E. 130521E is climbable - making repairs possible.	Primary Connect Type

Annotations:

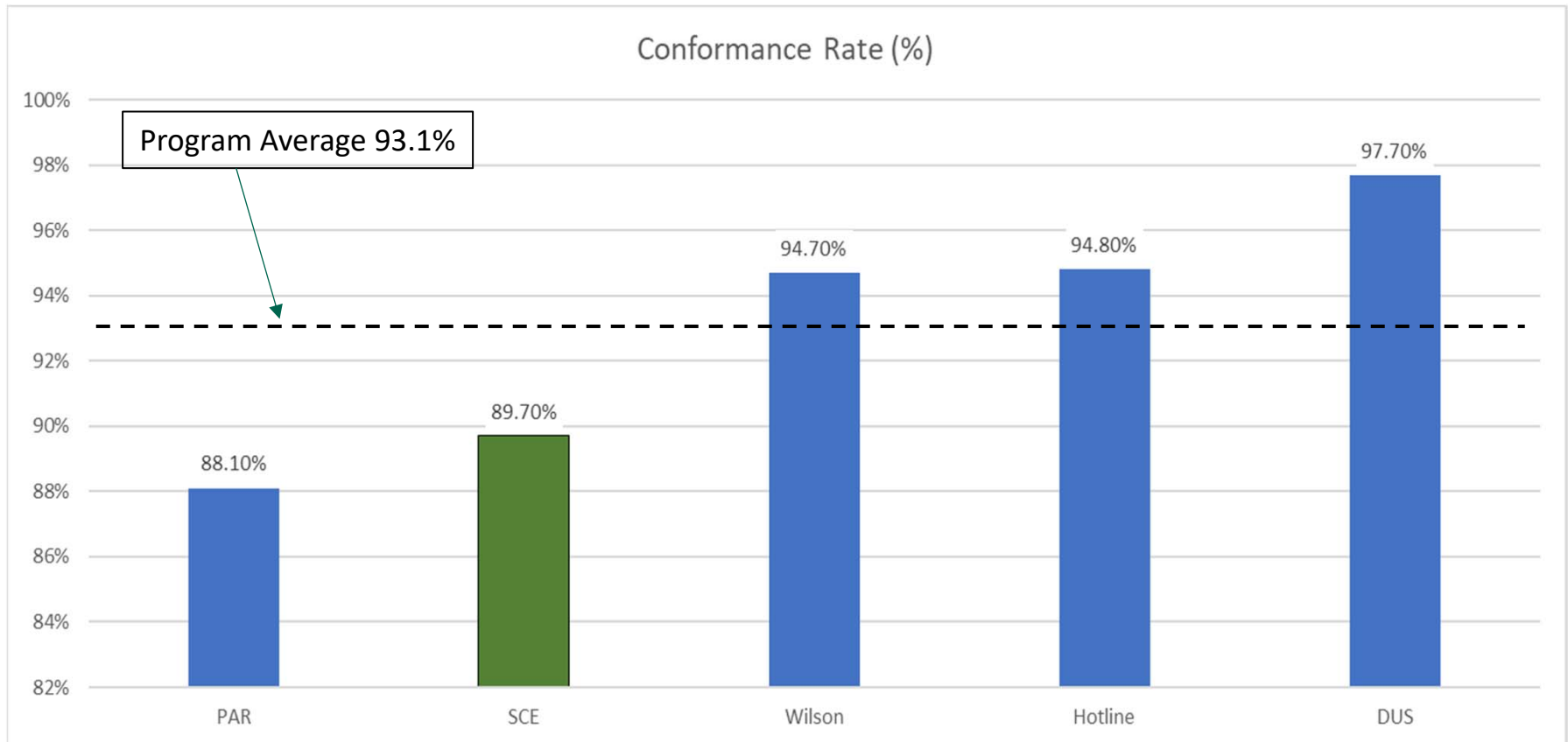
- Make sure you're on the second '2020 Quality Control Program'- 'Program Details'
- This is the only location where the Contractor names can be selected to filter information.
- Please note that this portion of the BI is a restricted viewing area. If you need access, please let me know. thank you!

YTD Performance Scoring – Distribution Construction



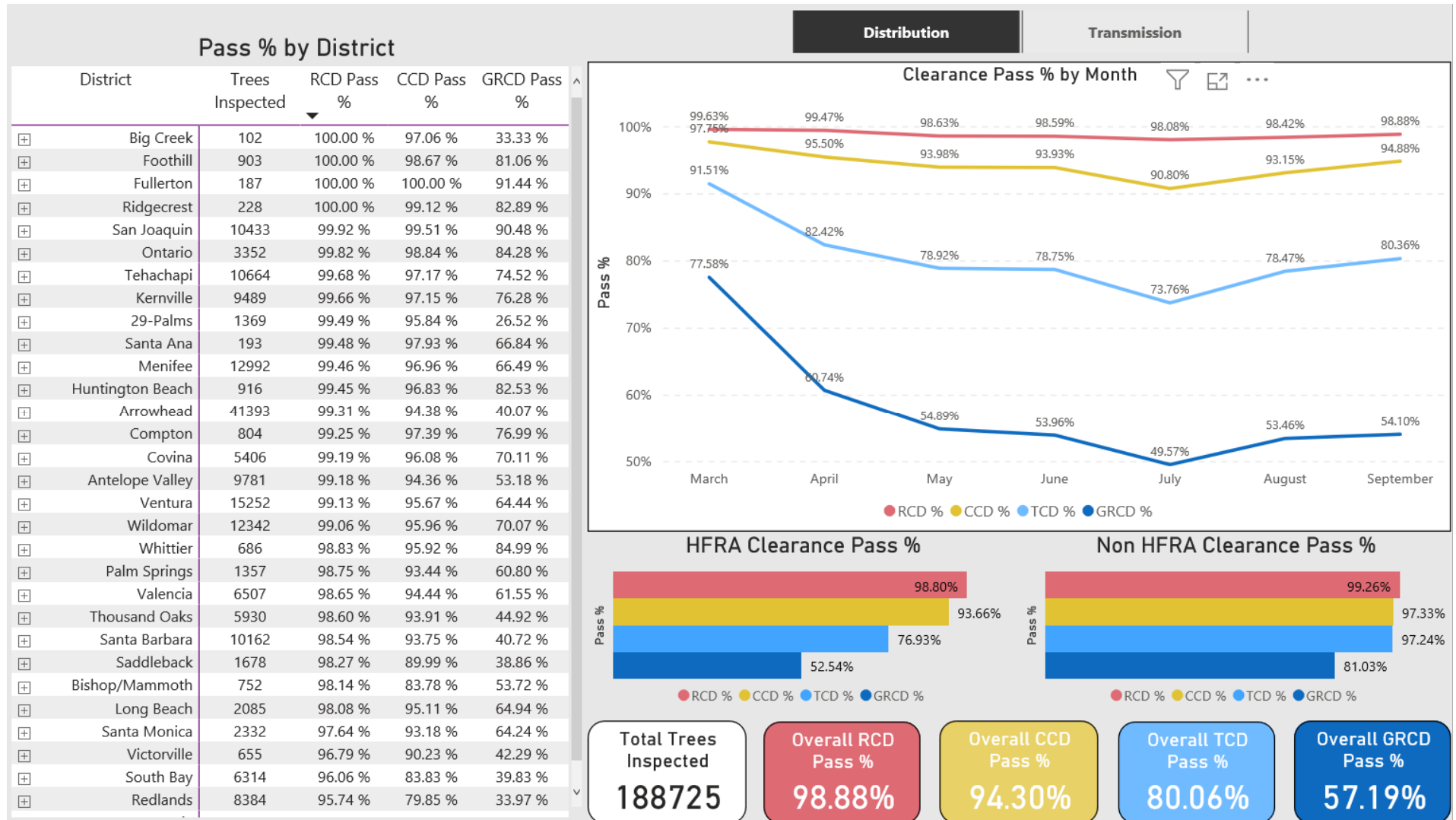
Data as of August 31, 2020

YTD Performance Scoring – Transmission Construction



Data as of August 31, 2020

September YTD VM Performance – Distribution



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

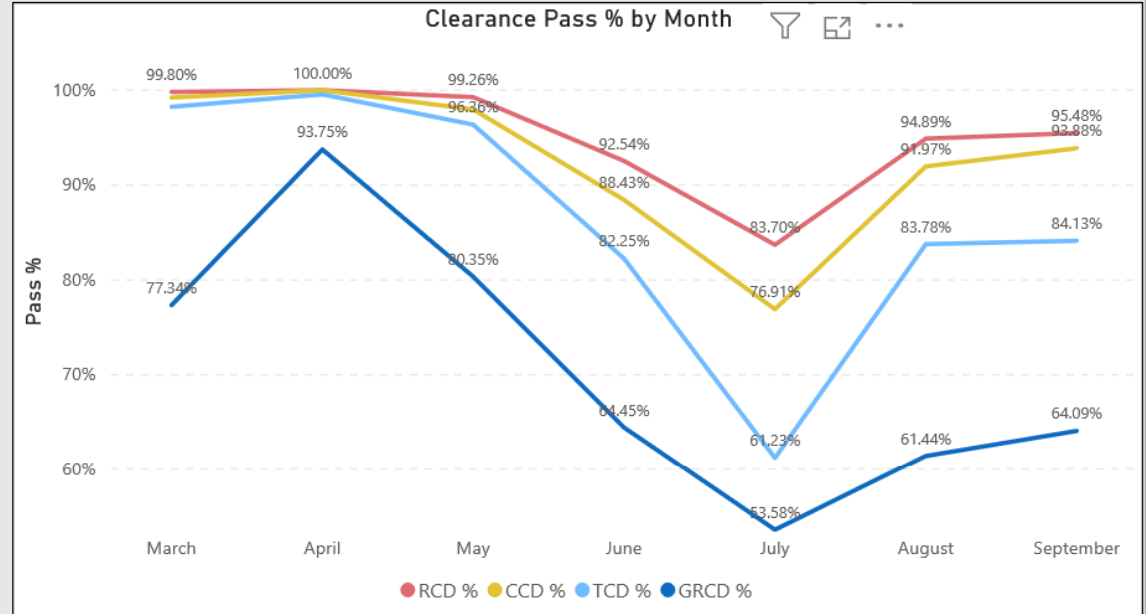
September YTD VM Performance – Transmission

Pass % by District

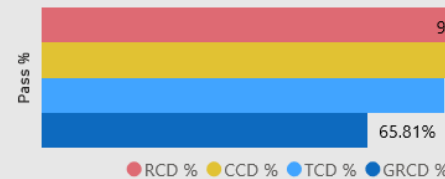
District	Trees Inspected	RCD Pass %	CCD Pass %	GRCD Pass %
⊕ Bishop/Mammoth	1128	100.00 %	99.82 %	69.06 %
⊕ Long Beach	188	100.00 %	100.00 %	94.15 %
⊕ Palm Springs	169	100.00 %	99.41 %	91.12 %
⊕ Whittier	138	100.00 %	100.00 %	98.55 %
⊕ Ventura	582	99.83 %	99.48 %	70.27 %
⊕ South Bay	560	99.82 %	99.82 %	69.46 %
⊕ Thousand Oaks	750	99.73 %	98.93 %	92.13 %
⊕ Kernville	348	99.71 %	99.71 %	99.14 %
⊕ Ontario	854	99.41 %	98.83 %	65.22 %
⊕ Santa Barbara	132	99.24 %	99.24 %	34.09 %
⊕ Santa Ana	342	98.83 %	97.66 %	79.24 %
⊕ Monrovia	1143	93.09 %	88.54 %	45.14 %
⊕ Antelope Valley	743	90.17 %	82.50 %	49.66 %
⊕ Saddleback	1154	86.92 %	80.94 %	54.25 %
⊕ Valencia	415	78.07 %	72.29 %	66.02 %
⊕ San Joaquin	534	73.60 %	65.73 %	48.31 %

Distribution

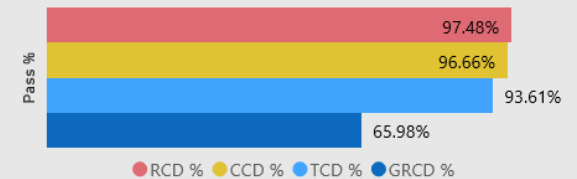
Transmission



HFRA Clearance Pass %



Non HFRA Clearance Pass %



Total Trees Inspected

11396

Overall RCD Pass %

94.74%

Overall CCD Pass %

91.94%

Overall TCD Pass %

84.74%

Overall GRCD Pass %

65.86%

	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'

APPENDIX



- Completed 73% of Planned Inspections YTD

27,016

Total Planned QC Inspections

19,645

Completed QC Inspections

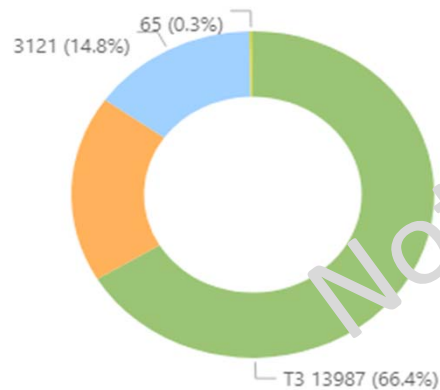
7,371

Remaining QC Inspections

Program Performance – BI Dashboard 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%	5	89.9%	23	12
Aerial Distribution	586	0	100.0%	2	98.6%	0	100.0%	8	8
ODI	15,220	4	100.0%	4	97.3%	509	97.0%	432	67
Intrusive	448	0	100.0%	3	99.3%	15	96.7%	1	0

QC Inspections by High Fire Tier Level



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

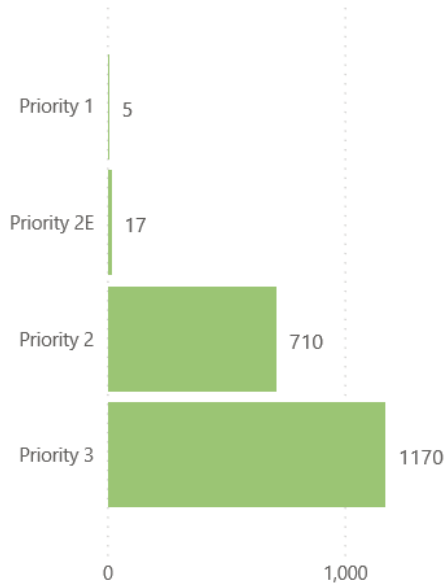
591

Non-Conformances

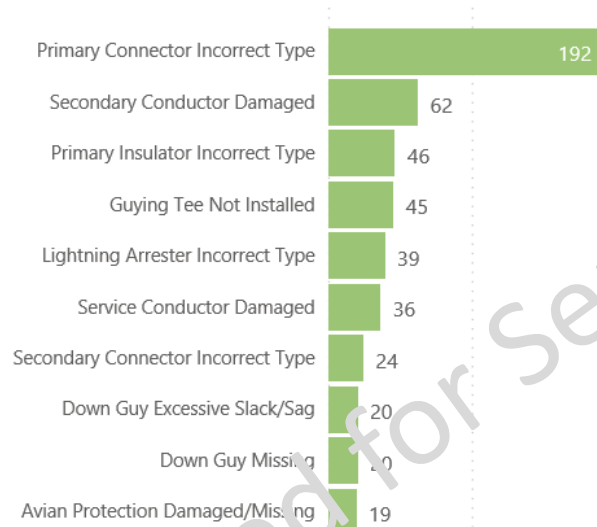
80%

CR% Actionable Total

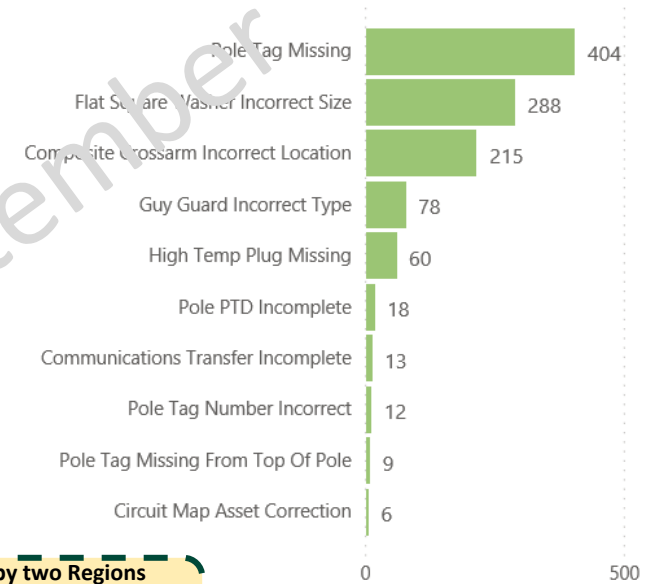
Non-Conformances by Priority



Top 10 P1 & P2 Finding Categories



Top 10 P3 Finding Categories



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

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%

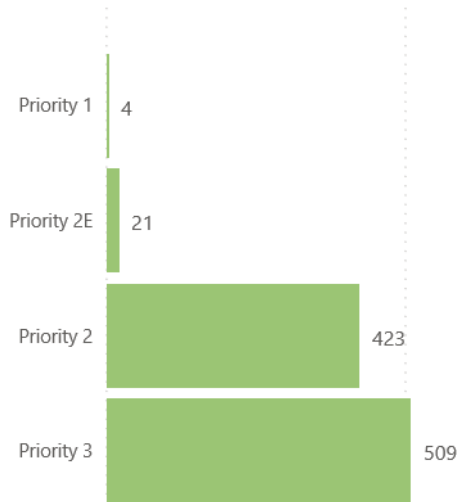
Program Name - REAX Score	Total QC Inspections	Actionable NC	Actionable CR	Threshold Limit	Actionable Findings						P3/Observational Outcomes		
					Priority 1	Priority 2E	Priority 2	Actionable Findings	Open Findings (Past Due)	Past Due Findings	Observational NC	Observational CR	Observational Findings
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](#)

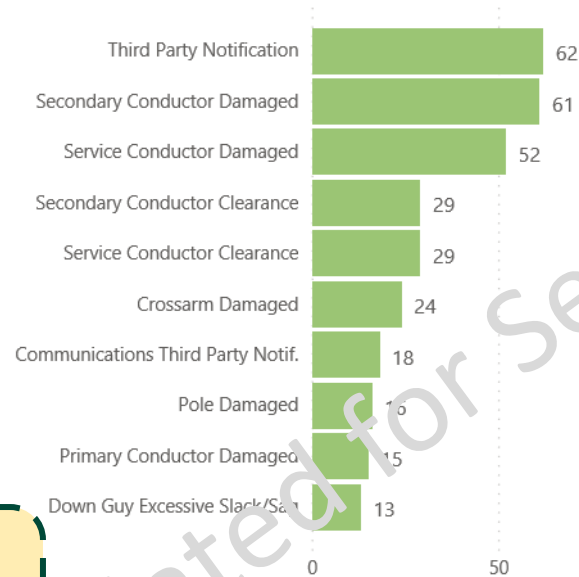
15K

Total Inspections



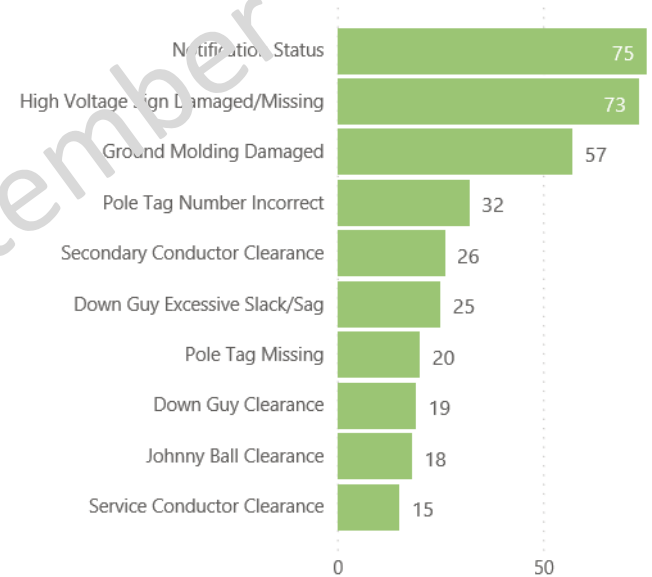
15K

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	7,419	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