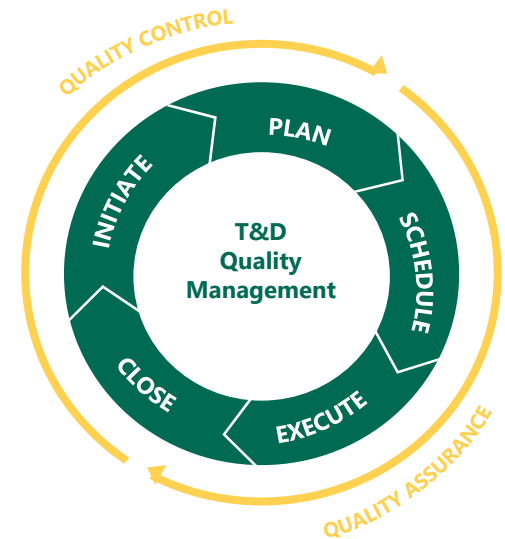


# T&D SLT QA/QC Report Out

May 2020



Energy for What's Ahead<sup>SM</sup>



## QC Results – YTD April 2020

Programs	Structures Inspected		P1		P2		P3- Observational		Actionable Findings	
	YTD Plan	YTD Actual	Count	CR%	Count	CR%	Count	CR	Open Count	Overdue Count
ODI Redesign	3,644	4,014	3	99.9%	81	98.0%	147	96.3%	83	0
Distribution Construction *	1,884	2,061	3	99.9%	427	79.3%	760	63.1%	383	0
Transmission Construction *	427	345	0	100.0%	25	92.8%	37	89.3%	22	0
Aerial Inspections Pilot *	532	586	0	100.0%	4	99.2%	0	100.0%	4	0
Intrusive Pole Inspections (IPI)	100	145	0	100.0%	0	100.0%	0	100.0%	0	0
PLP (started 4/1)	100	118								
Distribution Planning Pilot (Q4 2019) *	500	504	0	100.0%	57	88.7%	386	23.4%	0	0
Transmission Inspections (start June)										
UDI (starting Q4)										
Steel Stub (start TBD)										

\* Performed initial calibration with program owners, pending final calibration with ERM, Engineering, and Business Planning

### Other Key Highlights:

- Completed internal QA review on 8 of 24 high-risk WMP items for self-certification, no deficiencies identified, and one improvement recommendation.
- Established Data Mart to provide visibility to all work, allow for quality sampling and reporting. Working with Business Lines to establish protocols for standardized file naming convention necessary for data automation.
- Aerial Inspections Pilot is complete, Quality is assessing approach/feedback to determine next steps on program development.

#### Definitions:

**P1** – An immediate risk of high potential impact to safety or reliability

**P2** – Any other risk of at least moderate potential impact to safety or reliability

**P3/Observational** – Any risk of low potential impact to safety or reliability, or deviation from internal standards (e.g. no pole tag at top of pole)

**Actionable Findings** – Any actionable findings pending action/resolution, considered overdue after 90 days

# New Quality Dashboard – All Programs View

**34,963**

Total Inspections

**7,152**

Completed Inspections

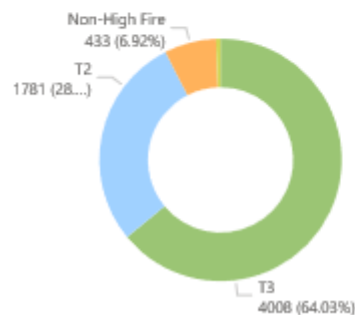
**27,811**

Remaining Inspections

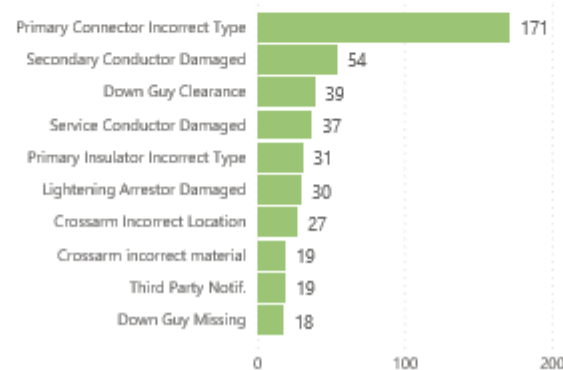
## Program Conformance

Header	Structures Inspected	P1		P2		P3		Actionable Findings	
Program Name		Count	CR %	Count	CR %	Count	CR %	Open Count	Overdue Count
ODI	4,014	3	99.93%	84	97.98%	166	96.36%	0	0
Distribution Construction	2,061	3	99.85%	525	80.25%	1,046	64.39%	0	0
Transmission Construction	345	0	100.00%	21	94.20%	43	89.57%	0	0
Aerial Distribution	586	0	100.00%	4	99.32%	0	100.00%	0	0
Intrusive	146	0	100.00%	0	100.00%	0	100.00%	0	0

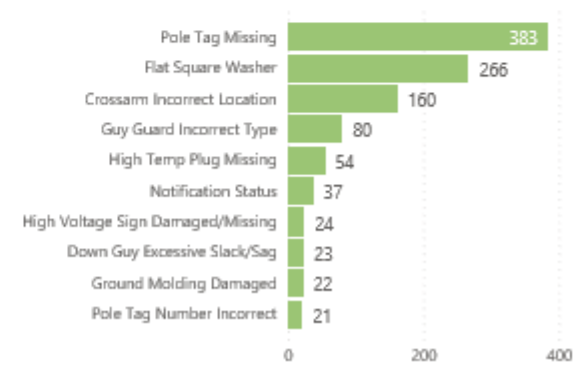
## Count of Inspections by High Fire Tier Level



## Top 10 P1 & P2 Finding Categories



## Top 10 P3 Finding Categories



*Note: Page still under development*

# New Quality Dashboard – Program Details (ODI)

ODI

Program: 
 Region - District: 
 Date: 
[Clear All Filters](#)

**4,014**

Total Inspected Structures

**3,791**

Pass

**223**

Non-Conformances

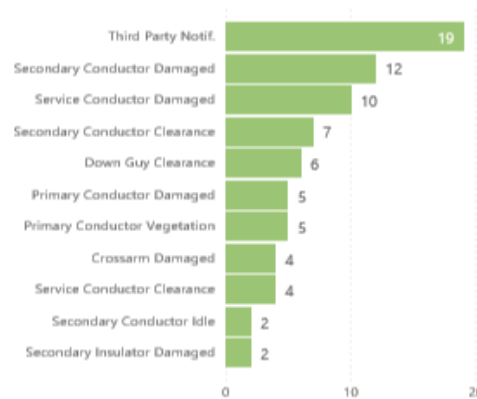
**94.44%**

Total CR%

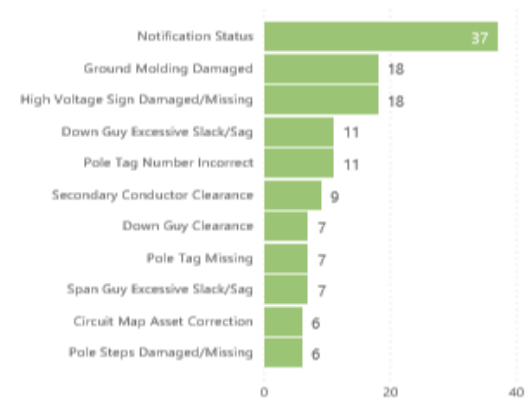
Non-Conformances by Priority



Top 10 P1 & P2 Finding Categories



Top 10 P3 Finding Categories

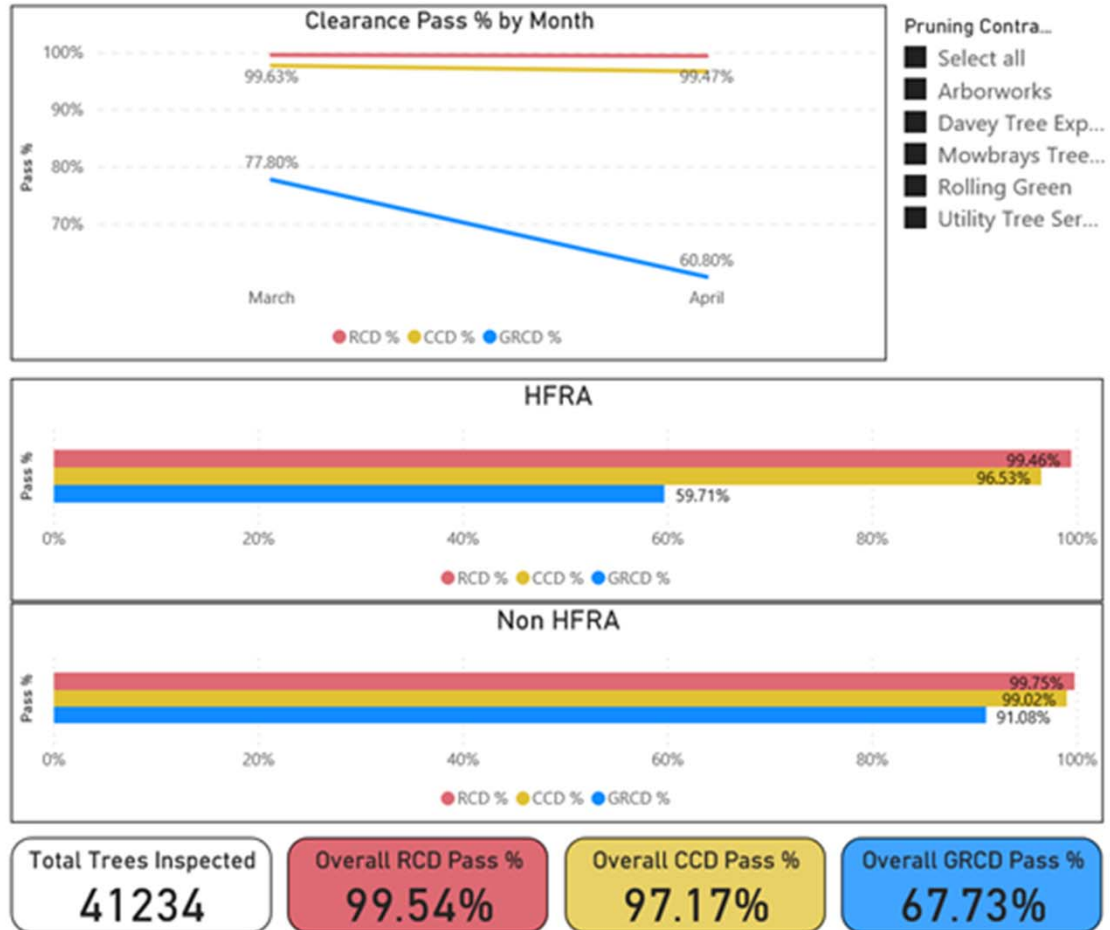


Program Name - REAX Score	Total Inspections	Actionable NC	Actionable CR	Threshold Limit	Priority 1	Priority 2	Priority 2E	Actionable Findings	Open Findings	Past Due Findings	Observational NC	Observational CR	Observational Findings
<b>ODI</b>													
Very High	1,993	35	98.24%	98.00%	1	33	2	36	0	0	73	96.34%	85
High	1,695	36	97.88%	95.00%	1	35	1	37	0	0	55	96.76%	60
Medium	314	13	95.86%	95.00%	1	12	1	14	0	0	16	94.90%	19
Low	12	0	100.00%	90.00%	0	0	0	0	0	0	2	83.33%	2
<b>Total</b>	<b>4,014</b>	<b>84</b>	<b>97.91%</b>	<b>94.50%</b>	<b>3</b>	<b>80</b>	<b>4</b>	<b>87</b>	<b>0</b>	<b>0</b>	<b>146</b>	<b>96.36%</b>	<b>166</b>

Note: Page still under development

## Vegetation Line Clearing Performance – Distribution (April)

Pass % by District				
District	Trees	RCD Pass %	CCD Pass %	GRCD Pass %
☐ Foothill	924	100.00 %	98.70 %	81.49 %
☐ Fullerton	1	100.00 %	100.00 %	0.00 %
☐ Ontario	1	100.00 %	100.00 %	100.00 %
☐ Santa Ana	1	100.00 %	100.00 %	100.00 %
☐ San Joaquin	5501	99.95 %	99.84 %	97.35 %
☐ Menifee	4718	99.85 %	99.05 %	73.38 %
☐ Tehachapi	1475	99.80 %	97.49 %	74.17 %
☐ Wildomar	4722	99.79 %	98.45 %	81.87 %
☐ Arrowhead	9552	99.77 %	96.97 %	52.91 %
☐ Ventura	4172	99.76 %	98.47 %	79.63 %
☐ Santa Barbara	2712	99.74 %	97.01 %	24.85 %
☐ Kernville	2299	99.43 %	96.82 %	75.42 %
☐ Huntington Beach	782	99.36 %	96.29 %	79.54 %
☐ Valencia	273	98.90 %	95.24 %	69.23 %
☐ Saddleback	1082	98.06 %	90.11 %	37.89 %
☐ Antelope Valley	1369	97.81 %	91.75 %	45.14 %
☐ Santa Monica	602	97.67 %	92.52 %	74.75 %
☐ Thousand Oaks	32	96.88 %	96.88 %	96.88 %
☐ South Bay	1016	95.87 %	82.68 %	28.64 %
<b>Total</b>	<b>41234</b>	<b>99.54 %</b>	<b>97.17 %</b>	<b>67.73 %</b>



Note: QC inspection is performed on a “circuit mileage” basis and all vegetation within the inspected circuit mile is assessed for compliance to UVM Program requirements. “Judgmental” sampling is performed to select circuit mileage with known vegetation

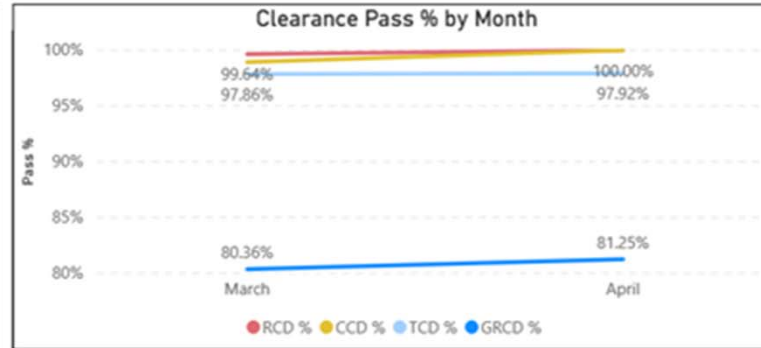
	Compliance Zone	HFRA	Non-HFRA
D	RCD	4'	18"
	CCD	6'	3'
	TCD	9'	N/A
	GRCD	12'	6'

RCD = Regulation Clearance Distance  
 CCD = Compliance Clearance Distance (RCD x 1.5)  
 TCD = Trigger Clearance Distance (CCD + 3')  
 GRCD = Grid Resiliency Clearance Distance

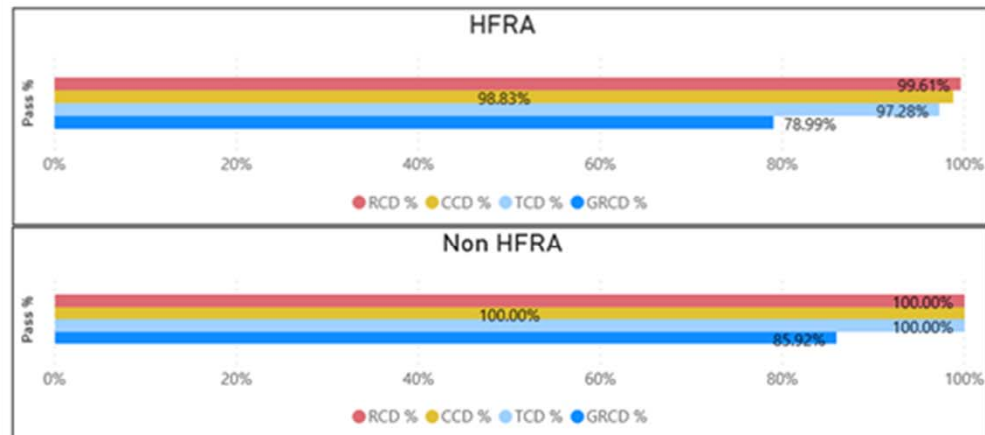
YTD data reflects work completed in 2020 only.  
 Vegetation QC migrated to Survey123 in March

# Vegetation Line Clearing Performance – Transmission (April)

Pass % by District					
District	Trees	RCD Pass %	CCD Pass %	TCD Pass %	GRCD Pass %
Foothill	19	100.00 %	100.00 %	100.00 %	100.00 %
Fullerton	90	100.00 %	100.00 %	100.00 %	82.22 %
Kernville	1	100.00 %	100.00 %	100.00 %	0.00 %
Monrovia	5	100.00 %	100.00 %	100.00 %	60.00 %
Ontario	55	100.00 %	100.00 %	100.00 %	89.09 %
Palm Springs	9	100.00 %	100.00 %	100.00 %	44.44 %
Santa Ana	18	100.00 %	100.00 %	100.00 %	100.00 %
Santa Barbara	1	100.00 %	100.00 %	0.00 %	0.00 %
Valencia	19	100.00 %	100.00 %	100.00 %	94.74 %
Thousand Oaks	111	99.10 %	97.30 %	94.59 %	71.17 %
<b>Total</b>	<b>328</b>	<b>99.70 %</b>	<b>99.09 %</b>	<b>97.87 %</b>	<b>80.49 %</b>



- Pruning Contra...
- Select all
  - Arborworks
  - Davey Tree Exp...
  - Mowbrays Tree...
  - Rolling Green
  - Utility Tree Serv...



Total Trees Inspected	Overall RCD Pass %	Overall CCD Pass %	Overall TCD Pass %	Overall GRCD Pass %
328	99.70%	99.09%	97.87%	80.49%

Note: QC inspection is performed on a “circuit mileage” basis and all vegetation within the inspected circuit mile is assessed for compliance to UVM Program requirements. “Judgmental” sampling is performed to select circuit mileage with known vegetation

T	Compliance Zone	HFRA
	RCD	10'
	CCD	15'
	TCD	18'
	GRCD	30'

RCD = Regulation Clearance Distance  
 CCD = Compliance Clearance Distance (RCD x 1.5)  
 TCD = Trigger Clearance Distance (CCD + 3')  
 GRCD = Grid Resiliency Clearance Distance

YTD data reflects work completed in 2020 only.  
 Vegetation QC migrated to Survey123 in March

# T&D Open Critical Action Items (as of 5/26/20)

T&D - Open Action Items	Due 1-30 Days	Due 31-60 Days	Due 61-90 Days	Due 91-120 Days	Due >120	Grand Total
<b>AMS&amp;E</b>	<b>8</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>17</b>
T&D Integrated System Planning					3	3
Design Engineering & Work Management	8					8
Asset & Engineering Strategy		1	3	1		5
T&D Integrated System Strategy					1	1
<b>CV&amp;OS</b>	<b>2</b>		<b>2</b>		<b>1</b>	<b>5</b>
T&D Training						
Compliance & Quality					1	1
Vegetation Management						
Geomatics, Land, & Info Management	2		2			4
<b>Distribution</b>	<b>2</b>			<b>2</b>	<b>1</b>	<b>5</b>
Distribution NW Div				1		1
Distribution SE Div						
Program Management	1			1	1	3
Central Field Services	1					1
<b>TS&amp;O</b>	<b>6</b>	<b>1</b>		<b>4</b>	<b>13</b>	<b>24</b>
Grid Operations	4	1		3	8	16
Substation Const & Maint	1			1	3	5
Transmission	1				2	3
PSPS Operations						
<b>Grand Total</b>	<b>18</b>	<b>2</b>	<b>5</b>	<b>7</b>	<b>19</b>	<b>55</b>

Open Action Items	Status
<b>On Plan</b>	<b>39</b>
AMS&E	13
CV&OS	5
Distribution	4
TS&O	17
<b>Not on Plan</b>	<b>10</b>
AMS&E	3
Distribution	3
TS&O	4
<b>Ahead of Plan</b>	<b>6</b>
AMS&E	1
TS&O	5
<b>Grand Total</b>	<b>55</b>

Reporting Org -Open Action Items	Due 1-30 Days	Due 31-60 Days	Due 61-90 Days	Due 91-120 Days	Due >120	Grand Total
Audit Services Department (ASD)	5	2	5	2	3	21
Edison Safety	12			5	10	27
T&D Compliance & Quality	1				6	7
<b>Grand Total</b>	<b>18</b>	<b>2</b>	<b>5</b>	<b>7</b>	<b>19</b>	<b>55</b>