Southern California Edison
2023-WMPs – 2023-WMPs

DATA REQUEST SET C a l A d v o c a t e s - S C E - 2 0 2 3 W M P - 0 2

To: Cal Advocates
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Job Title: Senior Advisor
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Response Date: 3/3/2023

Question 01:
Please identify and provide a copy of all quality assurance or quality control (QA/QC) reports conducted by internal entities that were completed since January 1, 2022 and that examined any programs, initiatives, or strategies described in your 2022 WMP Update.

Response to Question 01:
SCE performs routine Quality Control (QC) of asset and vegetation inspections and routine Quality Assurance (QA) readiness reviews of select wildfire mitigations. Additionally, QC and QA efforts may be ad hoc during a given year. SCE's response includes a description of these routine and ad hoc QA/QC efforts and the associated complete and final QA/QC reports.

SCE's Transmission & Distribution (T&D) QA/QC programs are intended to help ensure that inspection activities conform to the requirements of SCE's inspection programs. A QC inspection is conducted by evaluating the results of a sample of completed inspections after the fact. The data from the various QA/QC analyses are used to understand the status of programs, help identify challenges and root causes (for example, permitting and customer access challenges for line clearance), and identify issues that need follow-up actions. Actionable findings identified during QC inspections are used for performance scoring to measure the ability of SCE inspectors to accurately identify and classify the potential safety and reliability risks of General Order 95 violations, potential ignition risks, and other safety hazards. All findings identified during the QC review are remediated, and in some instances, corrective actions are initiated. Reports from various QC programs are described below.

SCE's QA programs evaluate the process as opposed to the evaluation of the finished product done by QC reviews. The QA readiness review evaluates the process to provide reasonable assurance to management the data/evidence appears to be adequate. The QA review can also provide recommendations to improve quality and consistency of data evidence. A listing of QA reviews completed is included below.

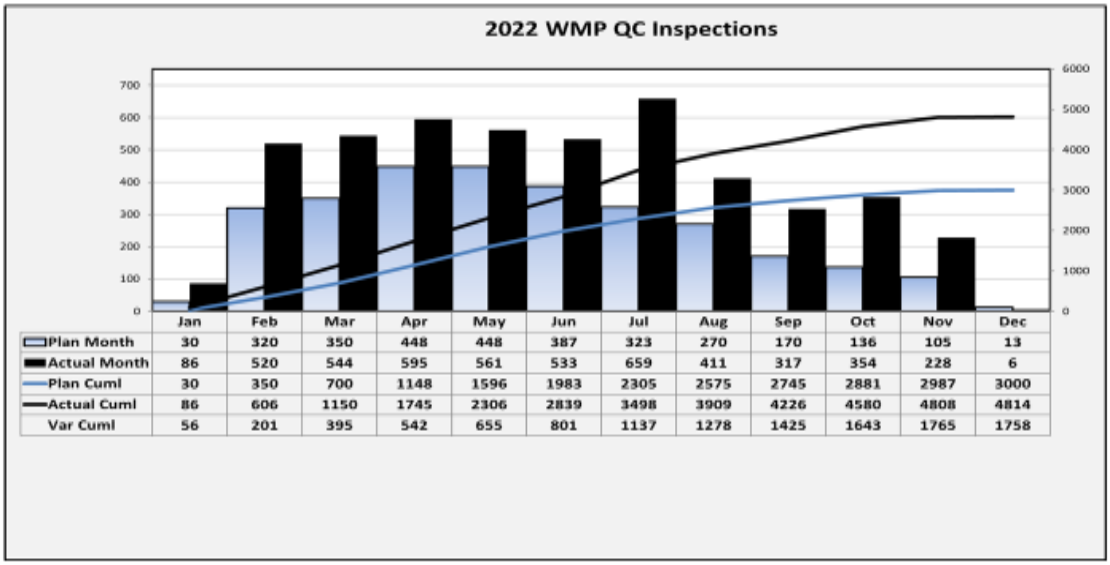
Together, SCE's QA/QC programs help drive continuous improvement by identifying nonconformances with SCE standards, determining causes of non-conformance, or driving corrective actions to improve performance. The quality program will track action plans to corrective actions, which can include changes implemented to inspection processes, training, etc., to continuously improve the inspection programs based on QA/QC findings.

Quality Control

In 2022, SCE performed QC of asset inspections for 4,814 transmission, distribution, and generation structures in HFRA to assess the inspections conformance to the requirements of SCE's overhead inspection programs by evaluating the results of the inspection after-the-fact. This exceeded the target of 3,000 inspections from SCE's 2022 WMP Update projection. This activity was tracked as a WMP goal, with a target to complete 3,000 inspections in 2022, and monthly goal updates would report progress towards completion of the annual inspection target. Details regarding overall inspection program findings and quality scores are displayed in a quality dashboard and reports are provided throughout the year to management (see description of conforming and nonconforming (NC) structures below). The following charts show the year-end 2022-status and activity for the quality inspections in SCE's HFRA.

2022 WMP QC Inspections

2022 WMP QC Inspections		
Program	HFA Inspected	NC Structures
Overhead Detailed Inspections	4132	162
Transmission Inspections	532	11
Generation Inspections	150	7
Total	4814	180



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Plan Month	30	320	350	448	448	387	323	270	170	136	105	13
Actual Month	86	520	544	595	561	533	659	411	317	354	228	6
Plan Cuml	30	350	700	1148	1596	1983	2305	2575	2745	2881	2987	3000
Actual Cuml	86	606	1150	1745	2306	2839	3498	3909	4226	4580	4808	4814
Var Cuml	56	201	395	542	655	801	1137	1278	1425	1643	1765	1758

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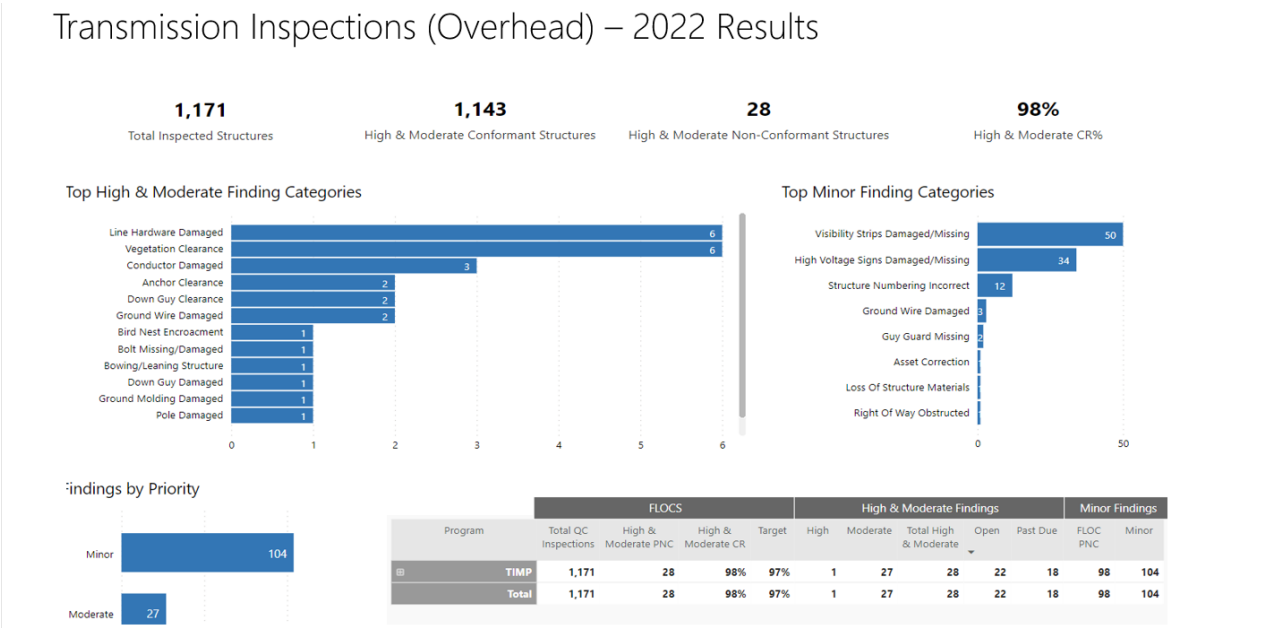
SCE also performed QC inspections of other WMP initiatives. These QC activities are displayed in a quality dashboard and program results are typically reported to management monthly. The quality dashboard is a tool that displays results for various QC programs in a centralized location and is accessible by SCE employees through SCE's internal web browser. Information displayed on the dashboard includes the number of QC inspections performed, program conformance rate details,

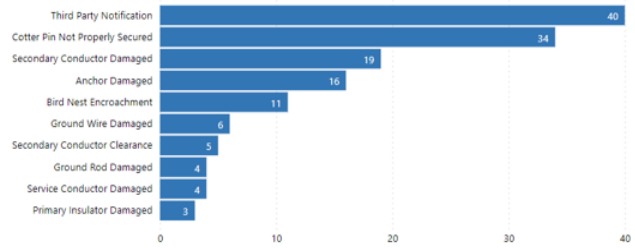
and top findings by category. A conforming structure is one that does not have an actionable finding identified during the quality review or inspection, i.e., the QC inspection result matched the previous inspection performed by the inspector. SCE calculates a monthly conformance rate by dividing the count of conforming structures inspected by the count of inspected structures. For example, if 90 structures are found to be conforming out of 100 structures reviewed by quality inspectors, the conformance rate would be 90%. Depending upon the complexity of the structure, there can be several items that can lead to a finding of nonconformance, and only one condition needs to be identified for the structure to be deemed nonconforming. The following screenshots from the quality dashboard show year-end 2022 results for these WMP related initiatives which include distribution Overhead Detailed Inspections (ODI), transmission inspections, generation inspections, and the Vegetation Management program. These screen shots represent the type of information that is typically reviewed with program owners and management monthly. Also, attached are various reports presented to program managers and/or management that include the QA/QC dashboard information.



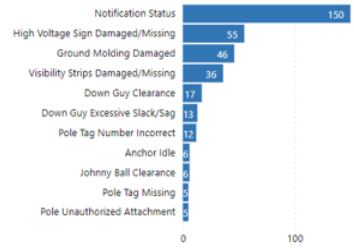
Distribution Overhead Detailed Inspection – 2022 Results

4,330	4,155	175	96%
Total Inspected Structures	High & Moderate Conformant Structures	High & Moderate Non-Conformant Structures	High & Moderate CR%

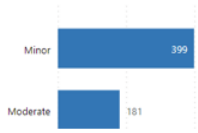
Top High & Moderate Finding Categories



Top Minor Finding Categories



Findings by Priority

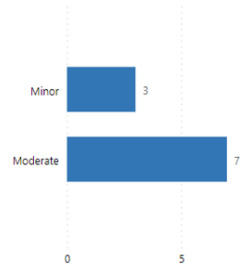


	FLOCS				High & Moderate Findings					Minor Findings	
Program	Total QC Inspections	High & Moderate PNC	High & Moderate CR	Target	High	Moderate	Total High & Moderate	Open	Past Due	FLOC PNC	Minor
ODI	4,330	175	96%	95%	1	181	182	90	83	352	399
Total	**4,330**	**175**	**96%**	**95%**	**1**	**181**	**182**	**90**	**83**	**352**	**399**

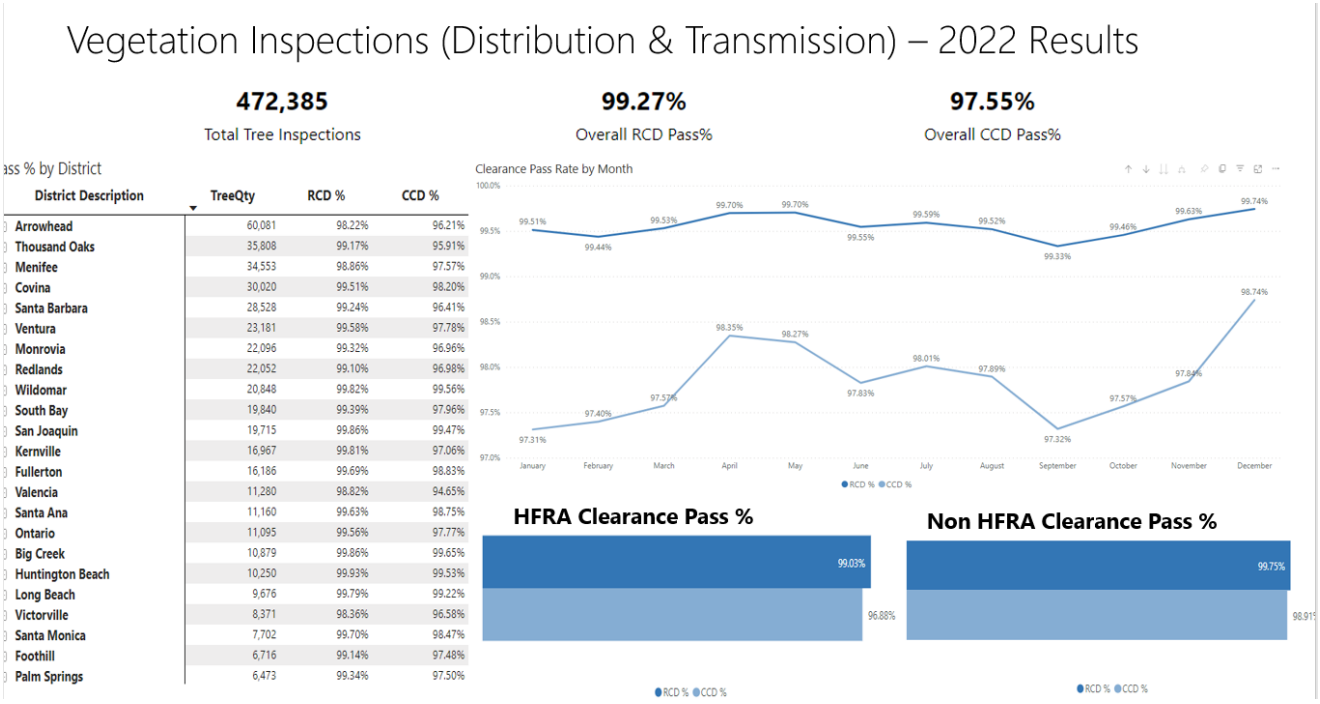
Generation Inspections – 2022 Results

150	143	7	95%
Total Inspected Structures	High & Moderate Conformant Structures	High & Moderate Non-Conformant Structures	High & Moderate CR%

Findings by Priority



	FLOCS				High & Moderate Findings					Minor Findings	
Program	Total QC Inspections	High & Moderate PNC	High & Moderate CR	Target	High	Moderate	Total High & Moderate	Open	Past Due	FLOC PNC	Minor
Generation Inspections	150	7	95%	90%		7	7	7	2	3	3
Total	**150**	**7**	**95%**	**90%**		**7**	**7**	**7**	**2**	**3**	**3**



Quality Assurance

Additionally, SCE's T&D QA Process & Controls team completed quality assurance readiness reviews of compliance documentation supporting the progress of five (5) 2022 WMP Update activities and two (2) reporting metrics. These QA readiness review reports cover the following 2022 WMP Update activities:

- IN-1.1 Distribution Ground and Aerial Inspections
- SH-14 Long Span Initiative
- SH-16 Vibration Damper Retrofit
- VM-1 Hazard Tree Management Program
- VM-4 Dead & Dying Tree Removal
- Distribution and Transmission Vegetation Line Clearance (reporting metric only)

Copies of the readiness reviews are also being provided as attachments to this response.