

*Southern California Edison*  
*2026-WMPs – 2026-WMPs*

**DATA REQUEST SET S P D - S C E - W M P 2 0 2 6 - 0 0 3**

**To: SPD**

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**Received Date: 7/21/2025**

**Response Date: 7/25/2025**

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**Question 05.a-b:**

In response to Question 3 of SPD\_SCE\_WMP2026-002, SCE stated that it will begin a pilot of CanopySense at the end of 2025.

- a. Provide any documentation for the proof-of-concept related to CanopySense.
- b. Provide a detailed description of the CanopySense pilot that includes:
  - i. Where the pilot will be located including which isolatable circuit segments will be involved
  - ii. What data SCE intends to collect during the pilot
  - iii. What tests and analysis SCE intends to perform using the data collected
  - iv. Any guidance documents SCE has created for conducting QA/QC during the pilot
  - v. An explanation of how CanopySense will interact with LiDAR and/or other imagery sources
  - vi. An explanation of how CanopySense will contribute to reducing wildfire risk
  - vii. Each step of the pilot
  - viii. The timeline for each step of the pilot

<sup>2</sup> VM-1 has 5,300 circuit miles per year, VM-7 has 7,900 circuit miles per year and VM-8 has 3,800 circuit miles per year.

**Response to Question 05.a-b:**

a. Attached.

b.

i. Attached is a list of the current selected SCE circuits for the CanopySense pilot areas. All segments within each circuit are in scope.

ii. During the pilot SCE intends to:

1. Generate crowns for the pilot circuit/areas from LiDAR
2. Associate calculated clearances to individual crowns for the pilot circuit/areas from LiDAR and vector models
3. Make a trim/no trim determination (remote sensing inspection) for each crown for the pilot circuit/areas
4. Perform ground-based inspections to determine the accuracy of remote sensing inspection trim prescription results.

iii. Potential tests and analysis of the remote sensing outputs include validations of the four components listed in part b.ii. above.

iv. QA/QC methodologies being evaluated for the pilot period include Field Inspections, Desktop inspections, and data comparisons to existing remote sensing data processing values.

v. CanopySense has three core components:

1. Crown ID
2. TrimRx
3. Trim Forecast

All three components rely on 3D feature classified LiDAR that is calibrated to professional ground control points to be within 6" of absolute/relative geospatial accuracy. Ortho stereo imagery along with digital surface models also augment the three core components. The multispectral pixels from the ortho stereo imagery will also help inform the trim forecast component.

vi.

CanopySense aims to connect SCE's remote sensing datasets (LiDAR and ortho derived clearances) to individual crowns/inventory within 6" of geospatial precision. This increased precision and data granularity for inventory is anticipated to reduce wildfire risk beyond what is currently possible with the current-state manual vegetation pre-trim inspection approaches. In addition, utilizing technology to supplement human resources helps reduce SCE's exposure to fluctuations in resource availability across the industry, as well as keeping pace with regular inspection intervals.

vii. The pilot is still actively being planned, but at a summary level, the pilot activities are anticipated to include:

- Detailed project planning and reporting across IT, Field Operations and Business

stakeholders

- Remote sensing data collection, processing & QC
- CanopySense technical development
- Arbora technical development
- Field observations following the technical and operational evaluation methodologies
- Results analysis and improvement opportunities
- Planning for technical and operational development based upon improvement opportunities

viii. The pilot is still actively being planned, but at a summary level, these pilot activities are estimated to take the approximate amount of time shown below:

- Detailed project planning and reporting across IT, Field Operations and Business stakeholders: 1 Month
- Remote sensing data collection, processing & QC: 1 Month
- CanopySense technical development: 2-3 Months
- Arbora technical development: 2-3 Months
- Field observations following the technical and operational evaluation methodologies: 1-2 Months
- Results analysis and improvement opportunities: 2-3 Weeks
- Planning for technical and operational development based upon improvement opportunities: 1 Week

These activities partially overlap each other in some cases and overall pilot completion is currently projected to be in Q1 2026.