

*Southern California Edison*  
*R.18-10-007 – SB 901*

**DATA REQUEST SET C A L P A - S C E - 0 0 2**

**To: CalPA**  
**Prepared by: Cameron McPherson**  
**Job Title: Senior Project Manager**  
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**Response Date: 2/22/2019**

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**Question 5: Question 5**

On page 45, 4.2.3.4 Transmission Infrared and Corona Inspection Initiative states:

“In addition to the EOI initiative noted above in Section 4.2.3.1, SCE launched a Transmission IR and Corona inspection effort focused on certain subtransmission and transmission (hereafter collectively referred to as transmission) lines in HFRA. This effort, which started in the first quarter of 2019, seeks to perform an IR and Corona scan of all overhead transmission facilities and equipment located in HFRA. Specialized infrared and ultraviolet (Corona) light cameras are typically mounted to helicopters and the line is flown, with special attention paid to splices, conductor connection/attachment points, and insulators. The IR scan detects temperature differences and heat signatures of components, which may indicate problems (not visible to the naked eye) that could result in component/conductor failure. The Corona scan detects the degree of electric discharge or ‘leakage’ due to the ionization of air surrounding high voltage electric components, which, if substantial enough, could result in an arc flash or mechanical component failure. In addition, a high-definition camera takes pictures of anomalies found for review. A remediation plan is developed for anomalies and integrated with any needed repair or replacement resulting from the physical EOI of transmission assets.”

What percentage of circuits are expected to be inspected by the end of 2019? Based on the implementation of the program so far, have IR and Corona scans or the High Definition (HD) camera found any anomalies leading to the repair or replacement of equipment?  
Please provide any and all data and analysis resulting from this initiative

**Response to Question 5:**

Pursuant to 2019 Activity IN-5, SCE’s goal is to complete IR, Corona, and HD image scanning of all overhead transmission lines in HFRA that are loaded to 40% of rated capacity or higher.

Regarding the second and third questions, SCE is in the beginning stages of the IR and Corona scan work and its vendor is currently processing the first batch of scans and preparing reports to meet SCE specifications.