

**PACIFIC GAS AND ELECTRIC COMPANY**  
**Wildfire Mitigation Plans**  
**Rulemaking 18-10-007**  
**Data Response**

PG&E Data Request No.:	CalAdvocates_041-Q05		
PG&E File Name:	WildfireMitigationPlans_DR_CalAdvocates_041-Q05		
Request Date:	February 19, 2021	Requester DR No.:	CalAdvocates-PGE-2021WMP-07
Date Sent:	February 24, 2021	Requesting Party:	Public Advocates Office
PG&E Witness:		Requester:	Alan Wehrman

**SUBJECT: RISK MODELING**

The following questions related to PG&E's 2021 Wildfire Mitigation Plan (WMP) Update.

**QUESTION 05**

P. 145 of PG&E's 2021 WMP states,

“The STAR model estimated the conductor age using the average age of the poles associated with the conductor or, if pole age could not be calculated, the average age of the conductors in the service territory (PG&E Digital Catalyst, 2019).”

- a. Why does the STAR model use the average age of poles or conductors in the service territory (in cases where data is missing), instead of a different assumption (e.g., the more conservative estimate of the oldest age of poles or conductor in the service territory)?
- b. Has PG&E performed any analysis to test whether “the average age of the poles associated with the conductor” is an accurate estimate of “the conductor age” for the instances where this estimate is used?
- c. Has PG&E performed any analysis to test whether “the average age of the conductors in the service territory” is an accurate estimate of “the conductor age” for the instances where this estimate is used?

**ANSWER 05**

- a. The response on page 145 of PG&E's 2021 WMP mischaracterized the STAR model – the model uses the age of adjacent assets rather than the average age of assets in the service territory in cases where pole age cannot be calculated. The STAR model uses the average age of conductor in a line segment to determine the Conductor Health Score of that segment. A segment can be multiple spans. In the event that conductor age was not available, the nearest pole's age was used as a proxy for that span of conductor's age. This was then inserted into the Conductor Health Score for the STAR model.

Please see the excerpt from this in the table below for the logic used.

Variable	Source	Score Range	Weight	Logic
Age Score	EDGIS	0 - 1	15%	<ol style="list-style-type: none"> <li>1. Age = Present Year – Installation Year (derived from Installation date and Install Job Year)</li> <li>2. If (Installation Year &gt;= 1986 and Installation Year &lt;= 1990) or Installation Year is Null or Installation Year &lt;= 1920 or Installation Year is in the future <ol style="list-style-type: none"> <li>a. Use average age of poles on the conductor</li> </ol> </li> <li>3. If age is Null after step 2, then use average age of conductor segments on the same circuit</li> </ol> <p>Age is ranked using percentile rankings (relative rank from 0 – 1)</p>

- b. There was no quantitative analysis to test whether the average age of poles was an accurate estimate for conductor age. The team did have SME concurrence that the likely age for a single span of conductor could be reasonably assumed to be the same age as adjacent poles because they would likely all have been installed at the same time.
- c. As stated previously, we are not aware of any quantitative analysis to test to determine whether the “average age of conductors in the service territory” is an accurate estimate of the conductor age.