Southern California Edison

WSD-011 – Resolution implementing the requirements of Public Utilities Code Sections 8389(d)(1), (2) and (4) related to catastrophic wildfire caused by electrical corporations subject to the Commission's regulatory authority

DATA REQUEST SET C a l A d v o c a t e s - S C E - 2 0 2 1 W M P - 0 1

To: Cal Advocates
Prepared by: Berta Sandberg
Job Title: Senior Advisor
Received Date: 1/15/2021

Response Date: 2/11/2021

Question 003:
Regarding your wildfire risk model1:
a) Have you developed a risk-estimation model that quantifies the wildfire risk level of each of your circuits?
b) If the answer to question 3(a) is yes, explain the finest level physical granularity (i.e. individual equipment, pole/tower, circuit-segment, circuit) with which you assess the wildfire risk level of your facilities.
c) If the answer to question 3(a) is yes, explain the finest level of temporal granularity (i.e. day, week, month, year) with which you assess the wildfire risk level of your facilities.
d) How are transmission and distribution circuits treated differently in the model referred to in question 3(a)?
e) Does the model in question 3(a) allow you to rank circuits or circuit-segments by risk level?
f) Does the model in question 3(a) rank transmission and distribution circuits together or separately?
g) Are your wildfire risk model's outputs for transmission and distribution circuits comparable to each other?

Response to Question 003:

a. Yes. A risk-estimation model that quantifies the wildfire risk level has been developed at circuit level in HFRA.
b. SCE has developed risk models at equipment and circuit segment level for distribution circuits. The transmission models were developed at pole/tower level.
c. The wildfire risk level is assessed at yearly temporal granularity.
d. The transmission and distribution circuit probabilities have different data associated with them and are calculated using different models. As a result, they have different probabilities of ignition. The main difference between distribution and transmission model is the asset and available data for developing the models.
e. The wildfire risk model allows SCE to rank circuits and circuit segments at risk level.
f. The transmission and distribution risk scores cannot be ranked together, the two models use different data input and have different machine learning model accuracy. They both can be used to rank and make risk-informed decisions for transmission and distribution.
g. The outputs for transmission and distribution circuits may be compared to each other by calibrating the scores to expected number of fires as a comparable unit.