

**SAFETY POLICY DIVISION DATA REQUEST SPD-DR 011  
SDG&E/SOCALGAS 2021 RAMP REPORTS- A.21-05-011/014**

**DATE RECEIVED: AUGUST 30, 2021**

**DATE RESPONDED: SEPTEMBER 10, 2021**

**“Circuit Risk Index”, said to be a relative risk assessment model under development by SDG&E.**

**Question 01:**

Please provide a short description of this circuit risk model. Please discuss whether and how the model has been evaluated by internal and external industry experts.

**SDG&E Response 01:**

The Circuit Risk Index (CRI) is a relative asset risk assessment model that can help identify circuits and sections (or segments) of the circuits with highest risk based on pole location, age, wire size and material, as well as Pole Risk Management and Engineering (PRiME) and Wildfire Risk Reduction Model (WRRM) values. The model was developed internally with the help of external industry experts and is now being further developed internally with machine learning capabilities.

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**Question 02:**

Please summarize findings from the model to date, and how they have been used for capital project and operational decision making that feed in to the proposed RAMP mitigations and controls. Please include circuits located outside HFTDs.

**SDG&E Response 02:**

The CRI model has been integrated into the latest WiNGS model and is helping identify segments that contain some potentially risky asset conditions such as the presence of small copper wire or potential pole loading issues. The CRI was not fully integrated into WiNGS at the time of filing the 2021 RAMP, and as such did not inform the mitigations or controls in the 2021 RAMP.

The CRI model development effort has also morphed into the development of more granular machine learning probabilistic asset failure models and this latest development will be integrated into WiNGS in the near future.

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**Question 03:**

Please also comment on plans to use the model to inform the upcoming GRC and WMP.

**SDG&E Response 03:**

The use of CRI to inform upcoming GRC and/or WMP will be mostly through the WiNGS model, which is the primary model that is informing scoping for covered conductor and undergrounding. The WiNGS model currently uses the initial version of the CRI as a factor in the overall calculation of risk for each segment, and as the CRI modeling development continues, updated versions of it will be integrated into WiNGS updates to continue to inform future grid hardening scope.