

Short-Circuit Model Quality

Issue Summary

Short-circuit models are critical to developing settings and studying impacts of elements on the system. Flawed or outdated short-circuit models can result in creation and/or application of inaccurate settings. Established processes for updating and sharing short-circuit model information can improve setting consistency and accuracy by ensuring that settings are based on timely, accurate models.

Time Estimates & Action Plan



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WECC and the RWG host a webinar to discuss top issues and inconsistencies in short-circuit models with the WECC Short-Circuit Modeling Work Group (SCMWG).



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WECC and RWG create an evaluation checklist for short-circuit models and related practices, including communication and information sharing practices.



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Entities actively participate in regional model initiatives or share short-circuit information with neighboring entities.



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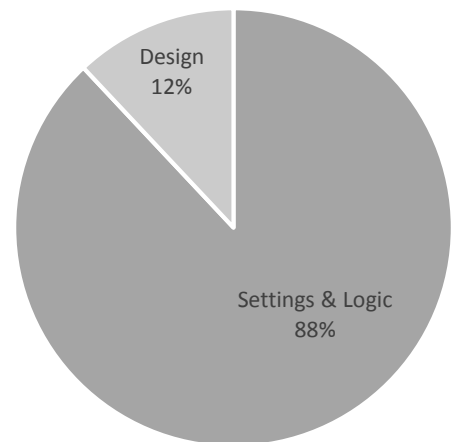
Entities participate in the newly formed WECC SCMWG.

Analysis

Forty percent of misoperations reported in the Western Interconnection are caused by “Incorrect settings, logic, or design errors”—the largest subcategory of “Human Error”.

The majority of these misoperations concern protection system setting errors, which can be reduced by improving short-circuit model quality.

2016 Incorrect Settings, Logic or Design Misoperations



Questions to consider:

1. Is this an appropriate issue for the Misoperations Reduction Strategy?
2. How would you rank the priority of this issue (high, medium or low), and why?
3. Do you feel each action could be accomplished in the proposed time frame?
4. Does the Action Plan adequately address the issue?
5. What is the likelihood that your company would adopt the Action Plan (likely, possibly, unlikely), and why?