



**Report on the
FERC-NERC-Regional
Entity Joint Review of
Restoration and Recovery
Plans:
Status Update**

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888



Disclaimer

The reports discussed in this presentation were prepared by staff from the Federal Energy Regulatory Commission in consultation with staff from the North American Electric Reliability Corporation and its Regional Entities. The reports do not necessarily reflect the views of the Commission.



Background

Initial joint review of Restoration and Recovery Plans - *(Report completed in January 2016)*

- Report recommended further joint studies:
 - Staff has completed two studies
 - Other studies - in progress



Blackstart Resources Availability (*BRAv*) Study Objective

- To assess current state of blackstart resource availability and registered entities' strategies for replacement of these resources
- To verify whether and how registered entities conduct testing of blackstart resources under anticipated blackstart conditions



BRAv Joint Staff Team Review Process

- Review blackstart plans from representative sample of registered entities:
 1. Gain an understanding of plans, strategies, processes and practices
 2. Identify strengths and shortcomings
 3. Develop recommendations to improve reliability



BRAv Findings

- Participants' system restoration plans contain sufficient blackstart resources and comprehensive strategies for mitigating against loss of these resources.
- Participants who performed expanded testing of blackstart capability used the knowledge gained to update and improve their system restoration plans.



BRAv Voluntary Recommendations for Entities

- Mitigate risks associated with reliance on single fuel;
- Verify model data to ensure accuracy of blackstart simulations;
- Perform expanded testing, where feasible, to confirm viability of blackstart capability;
- Reach out to other registered entities that have experience with expanded testing;
- Study the adequacy of compensation for blackstart resources.



FERC-NERC-Regional Entity Joint Review of Restoration and Recovery Plans:

<http://www.ferc.gov/legal/staff-reports/2016/01-29-16-FERC-NERC-Report.pdf>

Follow-up Reports:

<https://www.ferc.gov/legal/staff-reports/2017/06-09-17-FERC-NERC-Report.pdf>

<http://www.ferc.gov/legal/staff-reports/2018/bsr-report.pdf>

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