

III. Background

The NRC issues SFST-ISGs to communicate insights and lessons learned and to address emergent issues not covered in SFST Standard Review Plans (SRPs). In this way, the NRC staff and stakeholders may use the guidance in an SFST-ISG document before it is incorporated into a formal SRP revision.

The NRC has developed draft SFST-ISG-26A, Revision 0 to (1) enhance the prioritization of shielding and radiation protection review procedures to improve the effectiveness and efficiency of staff reviews of these areas; (2) provide guidance regarding the conditions that the staff should include in certificates of compliance, specific licenses, and associated technical specifications; and (3) provide guidance regarding the analyses that the staff should verify are included by applicants in applications submitted under 10 CFR Part 72 and the staff's evaluation of those analyses.

Proposed Action

By this action, the NRC is requesting public comments on draft SFST-ISG-26A. This SFST-ISG proposes certain revisions to NRC guidance on implementation of the requirements in 10 CFR Part 72. Along with comments on this draft SFST-ISG, the NRC invites the public to include suggestions for alternatives to the guidance, or parts thereof, proposed to address the two issues described in this draft SFST-ISG and to describe how those suggested alternatives adequately address the issues. The NRC also invites comments that include information regarding facility operations and exposures that support the comments or that the commenter thinks NRC should consider. The NRC will make a final determination regarding issuance of SFST-ISG-26A after it considers any public comments received in response to this request.

Backfitting and Issue Finality

This ISG provides guidance to the NRC staff reviewers on: (1) Establishing the priorities of NRC's shielding and radiation protection review procedures for applications for initial and amendments of spent nuclear fuel dry storage system CoCs and applications for specific-license independent spent fuel storage installation licenses and license amendments; (2) verifying the inclusion and evaluating the scope of applicant's analyses of radiation protection and shielding for these systems and installations; and (3) stating conditions the staff should include in CoCs, licenses, and technical

specifications. Prioritization of staff review procedures, verification and evaluation of an applicant's analyses, and the determination of appropriate conditions to be included in CoCs, licenses, and technical specifications are not matters to which backfitting or issue finality protections apply. Staff implementation of such guidance in the context of applications does not result in backfitting or non-compliance with issue finality protection provisions. For this reason, the NRC has not prepared a backfit analysis for this ISG.

For the Nuclear Regulatory Commission.

Dated at Rockville, Maryland, this 13th day of March 2013.

Mark D. Lombard,

Director, Division of Spent Fuel Storage and Transportation, Office of Nuclear Material Safety and Safeguards.

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DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

[Docket No. RM13-2-000]

18 CFR Part 35

Small Generator Interconnection Agreements and Procedures; Supplemental Notice of Workshop

AGENCY: Federal Energy Regulatory Commission, DOE.

ACTION: Supplemental notice of workshop.

SUMMARY: On February 27, 2013, the Federal Energy Regulatory Commission (Commission) announced that staff will convene a workshop on Wednesday, March 27, 2013 to discuss certain topics related to the proposals in the Small Generator Interconnection Agreements and Procedures Notice of Proposed Rulemaking (Docket No. RM13-2-000).¹ Please note that the time for the conference has been changed.

DATES: The conference will be convened from 9:30 a.m. to approximately 5:00 p.m. (EDT).

ADDRESSES: The staff-led workshop will be held in the Commission Meeting Room at the Commission's headquarters at 888 First Street NE., Washington, DC 20426. Members of the Commission may attend the conference, which will also be open for the public to attend. Advance registration is not required, but is encouraged. Attendees may register at

the following Web page: <https://www.ferc.gov/whats-new/registration/small-generator-03-27-13-form.asp>.

SUPPLEMENTARY INFORMATION: Attached to this supplemental notice is an agenda for the workshop. If any changes are made, the revised agenda will be posted prior to the event on the Calendar of Events on the Commission's Web site, www.ferc.gov.

This workshop is not intended to address the substance of any particular case pending before the Commission. However, notice is hereby given that discussions at the workshop may concern matters at issue in the following Commission proceedings that are either pending or within their rehearing period: CSOLAR IV South, LLC, Wistaria Ranch Solar, LLC, CSOLAR IV West, LLC & CSOLAR IV North, LLC v. California Independent System Operator Corporation (Docket No. EL13-37-000); NV Energy Operating Co. (Docket No. ER13-679-000); North American Natural Resources, Inc. v. PJM Interconnection, L.L.C., American Electric Power Service Corp., and Indiana Michigan Power Co. (Docket No. EL13-10-000); California Independent System Operator Corporation (Docket No. ER13-218-001); California Independent System Operator Corporation (Docket Nos. ER12-2643-000 and ER12-2643-001); SunPower Corporation (Docket No. ER13-958-000); Review of Small Generator Interconnection Agreements and Procedures (Docket No. AD12-17-000); and Solar Energy Industries Association (Docket No. RM12-10-000).

We note that the topics included here do not encompass all the proposals in the Notice of Proposed Rulemaking (NOPR). The Commission encourages stakeholders to submit written comments on all the proposals in the NOPR, not just those discussed at the workshop. There will not be a separate comment period for the workshop. The deadline for submitting written comments on the NOPR, including comments on the results of the workshop, is June 3, 2013.

We also note that we plan to leave time for audience questions and comments following each agenda topic.

The workshop will not be transcribed. However, there will be a free webcast of the workshop. Anyone with Internet access interested in viewing this workshop can do so by navigating to the FERC Calendar of Events at www.ferc.gov and locating this event in the Calendar. The event will contain a link to its webcast. The Capitol Connection provides technical support for the webcasts and offers the option of

¹ *Small Generator Interconnection Agreements and Procedures*, 142 FERC ¶ 61,049 (2013), 78 FR 7524 (Feb. 1, 2013).

listening to the workshop via phone-bridge for a fee. If you have any questions, visit www.CapitolConnection.org or call (703) 993-3100.

FERC workshops are accessible under section 508 of the Rehabilitation Act of 1973. For accessibility accommodations please send an email to accessibility@ferc.gov or call toll free 1-866-208-3372 (voice) or 202-208-8659 (TTY), or send a fax to 202-208-2106 with the required accommodations.

For information related to the agenda, please contact Leslie Kerr at leslie.kerr@ferc.gov or (202) 502-8540. For information related to logistics, please contact Sarah McKinley at sarah.mckinley@ferc.gov or (202) 502-8368.

Dated: March 19, 2013.

Kimberly D. Bose,
Secretary.



Small Generator Interconnection Agreements and Procedures RM13-2-000

March 27, 2013

Agenda

9:30-9:45 a.m. Welcome and Opening Remarks

Introduction

On January 17, 2013, the Federal Energy Regulatory Commission (Commission) issued a Notice of Proposed Rulemaking (NOPR)

proposing to revise the *pro forma* Small Generator Interconnection Procedures (SGIP) and *pro forma* Small Generator Interconnection Agreement (SGIA) originally set forth in Order No. 2006.¹ This workshop is convened to give stakeholders the opportunity to discuss the proposed reforms to the *pro forma* SGIP and the *pro forma* SGIA and other related issues.

9:45-11:00 a.m. Roundtable Discussion: Fast Track Process Eligibility

In the NOPR, the Commission proposed to revise the 2 megawatt (MW) threshold for participation in the SGIP Fast Track Process.² The Commission proposed to base Fast Track eligibility on individual system and generator characteristics, up to a limit of 5 MW. These characteristics include interconnection voltage level, the circuit distance of the interconnection from the substation, and generator capacity as the basis for determining whether an interconnection customer is eligible to be evaluated under the Fast Track Process, as shown in the table below.

Line Voltage	Fast Track Eligibility Regardless of Location	Fast Track Eligibility on ≥ 600 Ampere Line and ≤ 2.5 Miles from Substation
< 5 kilovolt (kV)	≤ 1 MW	≤ 2 MW
≥ 5 kV and < 15 kV	≤ 2 MW	≤ 3 MW
≥ 15 kV and < 30 kV	≤ 3 MW	≤ 4 MW
≥ 30 kV	≤ 4 MW	≤ 5 MW

Roundtable participants should be prepared to discuss the following:

- The individual system and generator characteristics included in the Commission's proposal (and the levels at which they are included); and
- Whether the proposal strikes an appropriate balance between allowing more small generating facilities to interconnect under the Fast Track Process and protecting system safety and reliability.

Roundtable Participants

> Aaron Berner, Manager, Interconnection Analysis, PJM Interconnection, L.L.C.

> Michael Coddington, Senior Electrical Engineering Researcher, Distributed Grid Integration, National Renewable Energy Laboratory

> Paul Hutchison, Renewable Energy Analyst, Public Utilities Commission of Ohio

> Eric Laverty, Director of Transmission Access Planning, Midwest Independent Transmission System Operator, Inc.

> Rachel Peterson, Interim Energy Advisor, California Public Utilities Commission

> Bhaskar Ray, Senior Director of Engineering and Design, SunEdison L.L.C. (Solar Energy Industries Association)

> Tim Roughan, Director, Energy and Environmental Policy, National Grid (Edison Electric Institute)

> Michael Sheehan, P.E., Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)

> Holly Rachel Smith, Assistant General Counsel, National Association of Regulatory Utility Commissioners

> Sky Stanfield, Attorney, Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)

> Steve Steffel, Manager, Distributed Energy Resources Planning and Analytics, Pepco Holdings, Inc.

> Jeff Triplett, Utility System Consultant, Power System Engineering (National Rural Electric Cooperative Association)

> Michael Worden, Chief, Electric Distribution Systems, New York State Public Service Commission

11:00-11:15 a.m. Break

11:15 a.m.-12:15 p.m. Roundtable Discussion: Pre-Application Report

The Commission proposed in the NOPR to include provisions in the SGIP that would allow the interconnection customer to request from the transmission provider a pre-application report providing existing information

¹ Standardization of Small Generator Interconnection Agreements and Procedures, Order No. 2006, FERC Stats. & Regs. ¶ 31,180, order on

reh'g, Order No. 2006-A, FERC Stats. & Regs. ¶ 31,196 (2005), order granting clarification, Order No. 2006-B, FERC Stats. & Regs. ¶ 31,221 (2006).

² See *Small Generator Interconnection Agreements and Procedures*, 142 FERC ¶ 61,049, at P 30-32 (2013).

about system conditions at a possible point of interconnection (see section 1.2 of Appendix C to the NOPR for the proposed SGIP revisions related to the pre-application report).³

Roundtable participants should be prepared to discuss the following:

- The content of the pre-application report, including whether additional items should be included in the report; and
- Whether the proposed fee of \$300 for the pre-application report is appropriate.

Roundtable Participants

- Aaron Berner, Manager, Interconnection Analysis, PJM Interconnection, L.L.C.
- Michael Coddington, Senior Electrical Engineering Researcher, Distributed Grid Integration, National Renewable Energy Laboratory
- Paul Hutchison, Renewable Energy Analyst, Public Utilities Commission of Ohio
- Eric Laverty, Director of Transmission Access Planning, Midwest Independent Transmission System Operator, Inc.
- Rachel Peterson, Interim Energy Advisor, California Public Utilities Commission
- Bhaskar Ray, Senior Director of Engineering and Design, SunEdison L.L.C. (Solar Energy Industries Association)
- Tim Roughan, Director, Energy and Environmental Policy, National Grid (Edison Electric Institute)
- Michael Sheehan, P.E., Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)
- Holly Rachel Smith, Assistant General Counsel, National Association of Regulatory Utility Commissioners
- Sky Stanfield, Attorney, Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)
- Steve Steffel, Manager, Distributed Energy Resources Planning and Analytics, Pepco Holdings, Inc.
- Jeff Triplett, Utility System Consultant, Power System Engineering (National Rural Electric Cooperative Association)
- Michael Worden, Chief, Electric Distribution Systems, New York State Public Service Commission

12:15–1:00 p.m. Break

1:00–2:30 p.m. Roundtable Discussion: Supplemental Review Screens

In the NOPR, the Commission proposed to revise the supplemental review in section 2.4 of the *pro forma* SGIP following failure of the Fast Track

Process screens in section 2.2.1 of the *pro forma* SGIP.⁴ The supplemental review screens include a minimum load screen (section 2.4.1.1 of Appendix C to the NOPR), a voltage and power quality screen (section 2.4.1.2 of Appendix C to the NOPR), and a safety and reliability screen (section 2.4.1.3 of Appendix C to the NOPR).

Roundtable participants should be prepared to discuss the following:

- The specific content of the supplemental review screens proposed in the NOPR, including:
 - Whether twelve months of minimum load data is appropriate for use in the minimum load screen, or whether additional data, if available, should be required to be considered;
 - The reasons that minimum load data are not available to transmission providers and what the Commission could do to encourage data availability where appropriate; and
 - Potential modifications to the supplemental review screens proposed in the NOPR to ensure the safety and reliability of the system.
- Whether the \$2,500 fee for the supplemental review proposed in the NOPR is appropriate.

Roundtable Participants

- Aaron Berner, Manager, Interconnection Analysis, PJM Interconnection, L.L.C.
- Michael Coddington, Senior Electrical Engineering Researcher, Distributed Grid Integration, National Renewable Energy Laboratory
- Paul Hutchison, Renewable Energy Analyst, Public Utilities Commission of Ohio
- Eric Laverty, Director of Transmission Access Planning, Midwest Independent Transmission System Operator, Inc.
- Rachel Peterson, Interim Energy Advisor, California Public Utilities Commission
- Bhaskar Ray, Senior Director of Engineering and Design, SunEdison L.L.C. (Solar Energy Industries Association)
- Tim Roughan, Director, Energy and Environmental Policy, National Grid (Edison Electric Institute)
- Michael Sheehan, P.E., Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)
- Holly Rachel Smith, Assistant General Counsel, National Association of Regulatory Utility Commissioners
- Sky Stanfield, Attorney, Keyes, Fox & Wiedman L.L.P. (Interstate Renewable Energy Council)

➤ Steve Steffel, Manager, Distributed Energy Resources Planning and Analytics, Pepco Holdings, Inc.

➤ Jeff Triplett, Utility System Consultant, Power System Engineering (National Rural Electric Cooperative Association)

➤ Michael Worden, Chief, Electric Distribution Systems, New York State Public Service Commission

2:30–2:45 p.m. Break

2:45–3:45 p.m. Roundtable Discussion: Interconnection of Storage Devices

The Commission did not propose to revise the definition of Small Generating Facility to include storage devices in Attachment 1 to the SGIP and Attachment 1 to the SGIA as devices that produce electricity. However, Commission staff would like to discuss whether such a revision to the definition of Small Generating Facility would be appropriate and whether other revisions to the SGIP and SGIA related to interconnecting storage devices would be appropriate.

Roundtable participants should be prepared to discuss the following:

- Their experiences related to the interconnection of storage devices; and
- Potential revisions to the *pro forma* SGIP and *pro forma* SGIA that would facilitate interconnection of such devices.

Roundtable Participants

- Alan Elmy, Manager, Interconnection Projects, PJM Interconnection, L.L.C.
- Robert Rounds, Director, Asset and Project Management, Beacon Power, L.L.C. (Electricity Storage Association)
- Michael Sheehan, P.E., Keyes, Fox & Wiedman LLP (Interstate Renewable Energy Council)
- Mark Siira, Director of Business Development, ComRent International (Institute of Electrical and Electronics Engineers)
- Steve Steffel, Manager, Distributed Energy Resources Planning and Analytics, Pepco Holdings, Inc.
- Michael Worden, Chief, Electric Distribution Systems, New York State Public Service Commission

3:45–4:45 p.m. Panel Discussion: Disconnection of Small Generating Facilities During Over- and Under-Frequency Events

In the NOPR, the Commission proposed to revise section 1.5.4 of the *pro forma* SGIA to require the interconnection customer to design, install, maintain, and operate its Small Generating Facility in accordance with the latest version of any applicable standards, such as the Institute of

³ See *id.* P 26–29.

⁴ See *id.* P 33–40.

Electrical and Electronics Engineers Standard 1547 for Interconnecting Distributed Resources with Electric Power Systems, to minimize the likelihood of an off-normal frequency disturbance resulting in common mode disconnection of its Small Generating Facility.⁵

Panelists should be prepared to discuss the following:

- Their experiences and any relevant analysis involving frequency issues associated with distributed generation;
- Potential conflicts between existing disconnection requirements in current standards and new smart grid interoperability standards being developed under the auspices of the National Institute of Standards and Technology;
- Whether the proposed revision to section 1.5.4 of the *pro forma* SGIA appropriately addresses small generator disconnection due to common mode frequency disturbances at high penetrations of distributed generation; and
- Whether abnormal voltage conditions should also be addressed in the proposed revisions to section 1.5.4 of the *pro forma* SGIA.

Panelists

- Allen Hefner, Jr., Ph.D., National Institute of Standards and Technology
- Rachel Peterson, Interim Energy Advisor, California Public Utilities Commission
- Michael Sheehan, P.E., Keyes, Fox & Wiedman LLP (Interstate Renewable Energy Council)
- Mark Siira, Director of Business Development, ComRent International (Institute of Electrical and Electronics Engineers)

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DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

18 CFR Part 40

[Docket No. RM12-19-000]

Revisions to Modeling, Data, and Analysis Reliability Standard

AGENCY: Federal Energy Regulatory Commission, DOE.

ACTION: Notice of proposed rulemaking.

SUMMARY: Under section 215 of the Federal Power Act (FPA), the Federal Energy Regulatory Commission (Commission) proposes to approve

Reliability Standard MOD-028-2, submitted to the Commission for approval by the North American Electric Reliability Corporation (NERC), the Commission-certified Electric Reliability Organization. NERC proposes one modification to the currently-effective Reliability Standard MOD-028-1, pertaining to the information a transmission service provider must include when calculating Total Transfer Capability using the area interchange methodology for the on-peak and off-peak intra-day and next day time periods. The Commission also proposes to approve NERC's proposed implementation plan and retirement of the currently-effective standard.

DATES: Comments are due May 13, 2013.

ADDRESSES: You may submit comments, identified by docket number by any of the following methods:

- *Agency Web site:* <http://ferc.gov>. Documents created electronically using word processing software should be filed in native applications or print-to-PDF format and not in a scanned format.
- *Mail/Hand Delivery:* Those unable to file electronically may mail or hand-deliver comments to: Federal Energy Regulatory Commission, Secretary of the Commission, 888 First Street NE., Washington, DC 20426.

FOR FURTHER INFORMATION CONTACT:

Rachel Bryant (Legal Information), Office of General Counsel, Federal Energy Regulatory Commission, 888 First Street NE., Washington, DC 20426, 202-502-6155, rachel.bryant@ferc.gov.
 Syed Ahmad (Technical Information), Office of Electric Reliability, Federal Energy Regulatory Commission, 888 First Street NE., Washington, DC 20426, 202-502-8718, syed.ahmad@ferc.gov.
 Christopher Young (Technical Information), Office of Energy of Energy Policy and Innovation, Federal Energy Regulatory Commission, 888 First Street NE., Washington, DC 20426, 202-502-6403, christopher.young@ferc.gov.

SUPPLEMENTARY INFORMATION:

Notice of Proposed Rulemaking

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Issued March 21, 2013

1. Pursuant to section 215 of the Federal Power Act (FPA),¹ the Commission proposes to approve Modeling, Data, and Analysis (MOD) Reliability Standard MOD-028-2, submitted to the Commission for approval by the North American Electric Reliability Corporation (NERC), the Commission-certified Electric Reliability Organization (ERO). NERC proposes one modification to the currently-effective Reliability Standard MOD-028-1, pertaining to the information a transmission service provider² must include when calculating Total Transfer Capability (TTC) using the area interchange methodology for the on-peak and off-peak intra-day and next day time periods. The Commission also proposes to approve NERC's proposed implementation plan and retirement of the currently-effective standard.

I. Background

2. Section 215 of the FPA requires a Commission-certified ERO to develop mandatory and enforceable Reliability Standards, subject to Commission review and approval. Specifically, the Commission may approve, by rule or order, a proposed Reliability Standard or modification to a Reliability Standard if it determines that the Standard is just, reasonable, not unduly discriminatory or preferential, and in the public interest.³ Once approved, the Reliability Standards may be enforced by the ERO, subject to Commission oversight, or by the Commission independently.⁴ Pursuant to section 215 of the FPA, the Commission established a process to

¹ 16 U.S.C. 824o (2006).

² NERC defines "transmission service provider" as "[t]he entity that administers the transmission tariff and provides Transmission Service to Transmission Customers under applicable transmission service agreements." NERC, *Glossary of Terms Used in NERC Reliability Standards* 64 (2011), http://www.nerc.com/files/Glossary_of_Terms.pdf. We also use the term "transmission operator" in this proposed rulemaking, which is defined by NERC as "[t]he entity responsible for the reliability of its 'local' transmission system, and that operates or directs the operations of the transmission facilities." *Id.* These terms indicate distinct NERC functional entities, to which different requirements within the same Reliability Standard may apply. Accordingly, in the context of describing the requirement of a Reliability Standard, we necessarily use either or both terms when appropriate.

³ 16 U.S.C. 824o(d)(2).

⁴ *Id.* 824o(e)(3).

⁵ See *id.* P. 46.