

DOE also requests feedback on how to assess pilot program results. In particular, how could DOE identify the counterfactual or control group for comparison with the existing mandatory ECS program? How could DOE best conduct a retroactive assessment of costs and benefits to manufacturers under the existing ECS program and the market-based pilot? How could DOE identify distributional impacts across manufacturers? How could DOE determine if a broader or narrower scope of trading, if allowed, would have been more beneficial? DOE also requests input on what data it would need to collect to properly assess pilot program results.

### III. Public Participation

DOE invites all interested parties to submit in writing by February 26, 2018, comments and information on matters addressed in this RFI and on other matters relevant to DOE's evaluation of the potential advantages and disadvantages of additional compliance flexibilities in energy conservation standards, such as tradable average standards, feebates or other market-based approaches. DOE requests feedback on program design, possible economic efficiency gains, impacts on consumer and manufacturer costs and on energy savings, and potential challenges associated with designing and implementing such a program, including suggestions for a pilot and/or phase-in of a revised ECS.

DOE considers public participation to be a very important part of the process for developing new and/or amended energy conservation standards. DOE actively encourages the participation and interaction of the public during the comment period. Interactions with and between members of the public provide a balanced discussion of the issues and assist DOE. Anyone who wishes to be added to the DOE mailing list to receive future notices and information about this RFI should contact Appliance and Equipment Standards Program staff at (202) 287-1445 or via email at [ApplianceStandardsQuestions@ee.doe.gov](mailto:ApplianceStandardsQuestions@ee.doe.gov).

Issued in Washington, DC, on November 21, 2017.

**Daniel R Simmons,**

*Principal Deputy Assistant Secretary, Energy Efficiency and Renewable Energy.*

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## DEPARTMENT OF ENERGY

### Federal Energy Regulatory Commission

#### 18 CFR Part 40

[Docket No. RM16-22-000]

### Coordination of Protection Systems for Performance During Faults and Specific Training for Personnel Reliability Standards

**AGENCY:** Federal Energy Regulatory Commission, Department of Energy.

**ACTION:** Notice of proposed rulemaking.

**SUMMARY:** The Federal Energy Regulatory Commission (Commission) proposes to approve Reliability Standards PRC-027-1 (Coordination of Protection Systems for Performance During Faults) and PER-006-1 (Specific Training for Personnel) submitted by the North American Electric Reliability Corporation (NERC). The purpose of proposed Reliability Standard PRC-027-1 is to maintain the coordination of protection systems installed to detect and isolate faults on bulk electric system elements, such that those protection systems operate in the intended sequence during faults. The purpose of proposed Reliability Standard PER-006-1 is to ensure that personnel are trained on specific topics essential to reliability to perform or support real-time operations of the bulk electric system. In addition, the Commission proposes to direct NERC to develop certain modifications to proposed Reliability Standard PRC-027-1.

**DATES:** Comments are due January 29, 2018.

**ADDRESSES:** Comments, identified by docket number, may be filed in the following ways:

- **Electronic Filing** through <http://www.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.

**Instructions:** For detailed instructions on submitting comments and additional information on the rulemaking process, see the Comment Procedures Section of this document.

#### FOR FURTHER INFORMATION CONTACT:

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#### SUPPLEMENTARY INFORMATION:

1. Pursuant to section 215 of the Federal Power Act (FPA), the Commission proposes to approve proposed Reliability Standards PRC-027-1 (Coordination of Protection Systems for Performance During Faults) and PER-006-1 (Specific Training for Personnel), which were submitted for approval by the North American Electric Reliability Corporation (NERC), the Commission-certified Electric Reliability Organization (ERO).<sup>1</sup> As discussed below, however, the Commission also proposes to direct NERC to modify proposed Reliability Standard PRC-027-1 to require an initial protection system coordination study to ensure that applicable entities will perform (or have performed), as a baseline, a study demonstrating proper coordination of its protection systems. We propose to direct NERC to submit the modified Reliability Standard for Commission approval within 12 months following the effective date of a final rule in this proceeding.

2. The Commission also proposes to approve the associated violation risk factors, violation severity levels, implementation plans, and effective dates proposed by NERC for Reliability Standards PRC-027-1 and PER-006-1. The Commission further proposes to approve the retirement of currently-effective Reliability Standard PRC-001-1.1(ii) (System Protection Coordination).<sup>2</sup>

3. In addition, the Commission proposes to approve new and revised definitions submitted by NERC for incorporation in the NERC Glossary of Terms Used in NERC Reliability Standards ("NERC Glossary") for the following terms: (1) "protection system coordination study;" (2) "operational planning analysis;" and (3) "real-time assessment."

<sup>1</sup> 16 U.S.C. 824a.

<sup>2</sup> The Commission approved Reliability Standard PRC-001-1.1(ii) on May 29, 2015. *North American Electric Reliability Corporation*, 151 FERC ¶ 61,186 (2015).

## I. Background

### A. Section 215 and Mandatory Reliability Standards

4. Section 215 of the FPA requires a Commission-certified ERO to develop mandatory and enforceable Reliability Standards, subject to Commission review and approval.<sup>3</sup> Once approved, the Reliability Standards may be enforced by the ERO subject to Commission oversight or by the Commission independently.<sup>4</sup> In 2006, the Commission certified NERC as the ERO pursuant to section 215 of the FPA.<sup>5</sup>

### B. Order No. 693

5. On March 16, 2007, the Commission issued Order No. 693, approving 83 of the 107 Reliability Standards filed by NERC, including Reliability Standard PRC-001-1.<sup>6</sup> In addition, the Commission directed NERC to develop modifications to Reliability Standard PRC-001-1 that:

(1) Correct the references for Requirements, and [sic] (2) include a requirement that upon the detection of failures in relays or protection system elements on the Bulk-Power System that threaten reliable operation, relevant transmission operators must be informed promptly, but within a specified period of time that is developed in the Reliability Standards development process, whereas generator operators must also promptly inform their transmission operators; and (3) clarifies that, after being informed of failures in relays or protection system elements that threaten reliability of the Bulk-Power System, transmission operators must carry out corrective control actions, *i.e.*, return a system to a stable state that respects system requirements as soon as possible and no longer than 30 minutes after they receive notice of the failure.<sup>7</sup>

### C. NERC Petition and Proposed Reliability Standards PRC-027-1 and PER-006-1

6. On September 2, 2016, NERC submitted a petition seeking Commission approval of proposed Reliability Standards PRC-027-1 and PER-006-1.<sup>8</sup> NERC states that the

proposed Reliability Standards, new and revised NERC Glossary terms, and the retirement of Reliability Standard PRC-001-1.1(ii) satisfy the Commission's criteria in Order No. 672 and are just, reasonable, not unduly discriminatory or preferential, and in the public interest.<sup>9</sup> NERC explains that the intent of the proposed Reliability Standards and changes to the NERC Glossary are to maintain the coordination of protection systems installed to detect and isolate faults on bulk electric system elements and require registered entities to provide training to their relevant personnel on protection systems and remedial action schemes. NERC asserts that the proposed Reliability Standards are an improvement over currently-effective Reliability Standard PRC-001-1.1(ii) and will ensure that appropriate personnel are trained on protection systems and that protection systems are appropriately studied, coordinated, and monitored.

### 1. Proposed Reliability Standard PER-006-1

7. NERC states that proposed Reliability Standard PER-006-1 requires generator operators to use a systematic approach to develop and implement training for dispatch personnel at centrally-located dispatch centers.<sup>10</sup> NERC explains that proposed Reliability Standard PER-006-1 will also cover plant personnel who are responsible for real-time control of a generator. NERC maintains that it is appropriate to train plant personnel [in] the functionality of protection systems and remedial action schemes. NERC observes that proposed Reliability Standard PER-006-1 replaces the phrase "purpose and limitations" used in currently-effective Reliability Standard PRC-001-1(ii) with the phrase "operational functionality" to clearly identify the objective of the training.<sup>11</sup> NERC also observes that proposed Reliability Standard PER-006-1 replaces the phrase "applied in its area" in Reliability Standard PRC-001-1.1(ii) with the phrase "that affect the output of the generating facility(ies) it operates" to properly tailor the scope of the required training. NERC notes that proposed Reliability Standard PER-006-1 does not specify a periodicity for the required training.

Standards are available on the Commission's eLibrary document retrieval system in Docket No. RM16-22-000 and are posted on the NERC Web site, <http://www.nerc.com>.

<sup>9</sup> NERC Petition at 10.

<sup>10</sup> *Id.* at 13.

<sup>11</sup> *Id.* at 15.

### 2. Proposed Reliability Standard PRC-027-1

8. NERC asserts that proposed Reliability Standard PRC-027-1:

provides a clear set of Requirements that obligate entities to (1) implement a process for establishing and coordinating new or revised Protection System settings, and (2) periodically study Protection System settings that could be affected by incremental changes in Fault current to ensure the Protection Systems continue to operate in their intended sequence.<sup>12</sup>

According to NERC, proposed Reliability Standard PRC-027-1, Requirement R1 mandates that each transmission owner, generator owner, and distribution provider establish a process for developing new and revised protection system settings for bulk electric system elements.<sup>13</sup>

9. NERC states that proposed Reliability Standard PRC-027-1, Requirement R2 mandates that every six years, applicable entities must either: (1) Perform a protection system coordination study to determine whether the protection systems continue to operate in the intended sequence during faults; (2) compare present fault current values to an established fault current baseline and, only if the comparison identifies a 15 percent or greater deviation in fault current values (either three phase or phase to ground) at a bus to which the bulk electric system is connected, perform a protection system coordination study; or (3) use a combination of options 1 and 2.<sup>14</sup>

10. NERC explains that proposed Reliability Standard PRC-027-1, Requirement R3 will require applicable entities to use the process established under proposed Reliability Standard PRC-027-1, Requirement R1 for the development of any new or revised protection system settings.

### 3. Proposed Retirement of Reliability Standard PRC-001-1.1(ii)

11. NERC states that Reliability Standard PRC-001-1.1(ii) includes six requirements that are either addressed by Reliability Standards approved by the Commission or by the proposed Reliability Standards. Specifically, NERC explains that Reliability Standard PRC-001-1.1(ii), Requirement R1 has been partially replaced by currently-effective Reliability Standards PER-003-1 and PER-005-2. NERC continues that proposed Reliability Standard PER-006-1 and the proposed revised definitions of operational planning

<sup>12</sup> *Id.* at 26.

<sup>13</sup> *Id.* at 27.

<sup>14</sup> *Id.* at 26.

<sup>3</sup> *Id.* 824o(c), (d).

<sup>4</sup> *Id.* 824o(e).

<sup>5</sup> *North American Electric Reliability Corp.*, 116 FERC ¶ 61,062, *order on reh'g and compliance*, 117 FERC ¶ 61,126 (2006), *order on compliance*, 118 FERC ¶ 61,190, *order on reh'g*, 119 FERC ¶ 61,046 (2007), *aff'd sub nom. Alcoa Inc. v. FERC*, 564 F.3d 1342 (D.C. Cir. 2009).

<sup>6</sup> *Mandatory Reliability Standards for the Bulk-Power System*, Order No. 693, FERC Stats. & Regs. ¶ 31,242, at PP 1433-1449, *order on reh'g*, Order No. 693-A, 120 FERC ¶ 61,053 (2007).

<sup>7</sup> Order No. 693, FERC Stats. & Regs. ¶ 31,242 at P 1449.

<sup>8</sup> Proposed Reliability Standards PRC-027-1 and PER-006-1 are not attached to this Notice of Proposed Rulemaking. The proposed Reliability

analysis and real-time assessment will replace the remaining portions of Reliability Standard PRC-001-1.1(ii), Requirement R1. NERC asserts that Reliability Standard PRC-001-1.1(ii), Requirement R2 has been addressed by Reliability Standards IRO-001-4, IRO-008-2, IRO-010-2, TOP-001-3, and TOP-003-3, which the Commission approved in Order No. 817.<sup>15</sup> NERC states that Reliability Standard PRC-001-1.1(ii), Requirements R3 and R4 will be replaced with proposed Reliability Standard PRC-027-1. NERC also explains that Reliability Standard PRC-001-1.1(ii), Requirement R5 has been replaced with several Reliability Standards developed after Reliability Standard PRC-001-1(ii) became effective.<sup>16</sup> NERC further states that Reliability Standard PRC-001-1.1(ii), Requirement R6 has been replaced with Reliability Standards TOP-001-3 and TOP-003-3.

## II. Discussion

12. Pursuant to section 215(d)(2) of the FPA, we propose to approve proposed Reliability Standards PER-006-1 and PRC-027-1 as just, reasonable, not unduly discriminatory or preferential, and in the public interest, as both proposed Reliability Standards improve upon currently-effective Reliability Standard PRC-001-1.1(ii) in important ways.<sup>17</sup> Specifically, proposed Reliability Standard PRC-027-1 does so by (1) modifying the applicability section to include the appropriate functional entity types with the responsibilities, resources, and skill sets to conduct the studies required to coordinate protection systems, and (2) listing the protection system functions on all bulk electric system elements that require coordination. Proposed Reliability Standard PER-006-1, along with existing formal training requirements in the PER group of Reliability Standards, also improves upon Reliability Standard PRC-001-1.1(ii), Requirement R1 by ensuring that the necessary personnel are familiar with and understand the purpose and limitations of protection systems schemes while providing more precise and auditable requirements. However, proposed Reliability Standard PRC-027-1, Requirement R2, Option 2 does not appear to ensure coordination of all bulk electric system elements with protection system functions.

Accordingly, pursuant to section 215(d)(5) of the FPA, we propose to direct that NERC develop modifications to proposed Reliability Standard PRC-027-1 that address our concern regarding this gap, as discussed below.

13. In addition, we propose to approve NERC's associated violation risk factors, violation severity levels, implementation plans, and effective dates. We also propose to approve the revised definitions for inclusion in the NERC Glossary. Further, we propose to approve the retirement of Reliability Standard PRC-001-1.1(ii), as requested by NERC.

14. Pursuant to 215(d)(5) of the FPA, we propose to direct that NERC develop modifications to proposed Reliability Standard PRC-027-1 addressing our concern that applicable entities that choose Requirement R2, Option 2 perform (or have already performed) an initial baseline study demonstrating proper coordination of their protection systems. Any additional protection system coordination studies would be necessary only if an applicable entity is confronted with 15 percent or greater fault current deviations from the prior baseline study amounts, as currently proposed in Reliability Standard PRC-027-1, Requirement R2, Option 2. We propose to direct NERC to submit the modified Reliability Standard within 12 months following the effective date of a final rule in this proceeding.

15. Proposed Reliability Standard PRC-027-1, Requirement R2 does not require an initial protection system coordination study if an applicable entity elects Option 2. Unlike Option 1, which requires performance of protection system coordination studies every six years, Option 2 requires applicable entities to "[c]ompare present Fault current values to an established Fault current baseline and perform a Protection System Coordination Study when the comparison identifies a 15 percent or greater deviation." The proposed Reliability Standard and NERC's petition do not indicate that the "Fault current baseline" must be established through an initial protection system coordination study. Instead, NERC's petition states that the baseline must be established "by the effective date of the standard based on short-circuit studies."<sup>18</sup> The proposed Reliability Standard provides that "the initial Fault current baseline(s) shall be established by the effective date of this Reliability Standard and updated each time a Protection System Coordination Study is performed," but this language does

not require establishing the "initial Fault current baseline" through an initial protection system coordination study.<sup>19</sup> NERC's petition reinforces this understanding, as noted above, by explicitly allowing the use of short-circuit studies to establish the initial Fault current baseline.

16. While they are related terms, we understand there to be a difference between short-circuit studies and protection system coordination studies. NERC defines protection system coordination study as an "analysis to determine whether Protection Systems operate in the intended sequence during Faults."<sup>20</sup> By comparison, proposed Reliability Standard PRC-027-1 explains that a short-circuit study is "an analysis of an electrical network that determines the magnitude of the currents flowing in the network during an electrical fault . . . [and] are used as the basis for protection device coordination studies."<sup>21</sup> Therefore, while short-circuit studies are inputs to protection system coordination studies, it appears that a short-circuit study differs in scope from a protection system coordination study. Based on this record, it would be incorrect to conclude that proposed Reliability Standard PRC-027-1, Requirement R2, Options 1 and 2 afford the same level of protection system coordination because the former requires a protection system coordination study while the latter does not.

17. While we generally support permitting flexibility in the Reliability Standards to achieve required performance goals, the possibility that some bulk electric system elements may never undergo a protection system coordination study raises reliability concerns. In past serious Bulk-Power System events, mis-coordination was a contributing factor to misoperations and outages. For example, the Arizona Southern California September 8, 2011 Outage Report identified an instance

<sup>19</sup> Proposed Reliability Standard PRC-027-1, Requirement R2, Option 2 n.1. Footnote 1 further states that if an "initial baseline was not established by the effective date of this Reliability Standard because of the previous use of an alternate option or the installation of a new BES Element, the entity may establish the baseline by performing a Protection System Coordination Study" (emphasis added). *Id.*

<sup>20</sup> NERC Petition, Exhibit A-3, Proposed Definitions. This definition is consistent with the definition of coordination of protection in IEEE Std. C37.113-1999 (stating that the "process of choosing settings or time delay characteristics of protective devices, such that operation of the devices will occur in a specified order to minimize customer service interruption and power system isolation due to a power system disturbance").

<sup>21</sup> Proposed Reliability Standard PRC-027-1, Supplemental Material at 8.

<sup>15</sup> *Id.* at 5 (citing *Transmission Operations Reliability Standards and Interconnection Reliability Operations and Coordination Reliability Standards*, Order No. 817, 153 FERC ¶ 61,178 (2015)).

<sup>16</sup> *Id.* at 6.

<sup>17</sup> 16 U.S.C. 824o(d)(2).

<sup>18</sup> NERC Petition at 36 n.35.

where a transmission owner did not perform a protection system coordination study prior to the implementation of a protection system.<sup>22</sup> The 2011 Outage Report stated that this omission negatively affected the reliable operation of the Bulk-Power System during the 2011 event.<sup>23</sup>

18. Over the past eleven years, several NERC reports have addressed the importance of protection system coordination to Bulk-Power System reliability. Proposed Reliability Standard PRC-027-1 addresses some of the issues raised in these reports; but without requiring an initial protection system coordination study, the proposed Reliability Standard does not address all of them. In 2006, for example, the NERC System Protection Control Task Force assessed Reliability Standard PRC-001.<sup>24</sup> The report recommended requiring the coordination of all existing protection systems.<sup>25</sup>

19. In 2009, in a letter from the NERC President to the NERC Board of Trustees and stakeholders, NERC identified generation and transmission mis-coordination as responsible for 30 percent of the misoperations that occurred between 2005 and 2008.<sup>26</sup> The 2009 letter stated that mis-coordination between generation and transmission protection systems “has caused two significant system disturbances in the past two years, and resulted in the unnecessary loss of generation during seven additional disturbances in that timeframe.”<sup>27</sup> The letter explained that the 2009 NERC System Protection Initiative would initially focus on the area of protection system coordination.<sup>28</sup>

20. In 2013, NERC issued a Misoperations Report prepared by the Protection System Misoperations Task Force.<sup>29</sup> The Misoperations Report identified “ways to potentially reduce the amount of future misoperations” and concluded that “[m]isoperations

due to setting errors can potentially be reduced.”<sup>30</sup> The identified techniques to reduce incorrect settings, included: Peer reviews, increased training, more extensive fault studies, standard templates for setting standard schemes using complex relays, and periodic review of existing settings when there is a change in system topography.<sup>31</sup> In the ReliabilityFirst region, NERC identified a category of misoperations caused by “Engineering/Design Issues,” which specifically included setting mis-coordination.<sup>32</sup> This category of misoperations was one of the three most common causes of misoperations for above 200 kV facilities within the ReliabilityFirst region.<sup>33</sup> The positive impact on Bulk-Power System reliability of reducing misoperations because of “Incorrect setting/logic/design errors” is found in NERC’s 2015 Analysis of System Protection Misoperations:

The State of Reliability 2015 report found that protection system misoperations continued to be a significant contributor to automatic transmission outage severity. In general, transmission system events with protection system misoperations were more impactful than other transmission events. They were also a significant contributor to transmission outage severity, indicating that a reduction in protection system misoperations would lead to an improvement in system reliability.<sup>34</sup>

21. In 2014, a NERC “lessons learned” document on “Generation Relaying—Underfrequency Protection Coordination” identified a 2014 incident where underfrequency relay trip settings were installed on the system unnecessarily and were not coordinated with a generator’s relay trip setting.<sup>35</sup> The document explained that “[u]nintended generator tripping during an underfrequency event can exacerbate

the condition.”<sup>36</sup> The document also stated that “generator relay protection should be coordinated with all auxiliary power system relaying with specific regard to time-delay settings” in order to ensure reliable generator operation.<sup>37</sup>

22. The 2016 State of Reliability Report noted that while protection system misoperations declined in 2015, misoperations showed a “statistically significant positive correlation with transmission outage severity and show[ed] a higher relative transmission risk.”<sup>38</sup> Misoperations showed the strongest correlation of the factors considered. In addition, the 2016 State of Reliability Report identified that “over 40 percent of the incorrect setting/logic/design misoperations were due to the miss coordination [*sic*] of ground overcurrent settings” found by ERCOT.<sup>39</sup>

23. The 2017 State of Reliability Report recognized the significance of protection system misoperations to Bulk-Power System reliability by observing that “[p]rotection system misoperations should remain an area of focus as it continues to be one of the largest contributors to the severity of transmission outages.”<sup>40</sup>

24. For the reasons discussed above, we propose to direct that NERC develop modifications to proposed Reliability Standard PRC-027-1 to address our concern by requiring that applicable entities perform an initial protection coordination study under Requirement R2, Option 2. We propose that applicable entities would have six years from the effective date of a modified Reliability Standard to complete the analysis. An applicable entity could use pre-existing protection system coordination studies to satisfy the proposed requirement provided it was reasonable (*i.e.*, no intervening system changes that would render the earlier work obsolete). After conducting the initial protection system coordination study, subsequent protection system coordination studies would only be required when an applicable entity is confronted with 15 percent or greater fault current deviations from the prior baseline study amounts, as currently proposed in Reliability Standard PRC-027-1, Requirement R2, Option 2. We seek comments on this proposal.

25. Separately, we seek comment from NERC and other interested entities explaining the technical basis for

<sup>30</sup> *Id.* at 3.

<sup>31</sup> *Id.*

<sup>32</sup> *Id.* at 14–15. The 2013 Misoperations Report elaborated that the “Engineering/Design Issues” category included:

Incorrect short circuit values and coordination errors. The incorrect short circuit values included outdated or incorrect data used to calculate relay settings. The coordination errors in these cases all involved pilot protection either of insufficient carrier blocking trip delays or of improper choice of ground pickup values used in a blocking scheme. *Id.* at 15.

<sup>33</sup> *Id.* at 14.

<sup>34</sup> NERC, Analysis of System Protection Misoperations at 1 (Dec. 2015) (citations omitted), [http://www.nerc.com/pa/RAPA/PA/Performance%20Analysis%20DL/2015\\_Analysis\\_of\\_System\\_Protection\\_Misoperations\\_Final.pdf](http://www.nerc.com/pa/RAPA/PA/Performance%20Analysis%20DL/2015_Analysis_of_System_Protection_Misoperations_Final.pdf) (finding that 31 percent of all misoperations were due to “Incorrect setting/logic/design errors”).

<sup>35</sup> NERC, Lesson Learned, Generation Relaying—Underfrequency Protection Coordination (2014), [http://www.nerc.com/pa/rrm/ea/Lessons%20Learned%20Document%20Library/LL20140601\\_Generation\\_Relaying\\_Underfrequency\\_Protection\\_Coordination\\_final.pdf](http://www.nerc.com/pa/rrm/ea/Lessons%20Learned%20Document%20Library/LL20140601_Generation_Relaying_Underfrequency_Protection_Coordination_final.pdf).

<sup>36</sup> *Id.*

<sup>37</sup> *Id.*

<sup>38</sup> 2016 State of Reliability Report at 17, <http://www.nerc.com/pa/RAPA/Pages/default.aspx>.

<sup>39</sup> *Id.* at 166.

<sup>40</sup> 2017 State of Reliability Report at 2.

<sup>22</sup> Arizona Southern California September 8, 2011 Outage Report at 101–103, <https://www.ferc.gov/legal/staff-reports/04-27-2012-ferc-nerc-report.pdf>.

<sup>23</sup> *Id.* at 100–102.

<sup>24</sup> NERC SPCTF Assessment of Standard PRC-001-0—System Protection Coordination (2006), [http://www.nerc.com/pa/Stand/Project200706SystemProtectionCoordinationDL/NERC\\_SPCTF\\_Assessment\\_of\\_Standard\\_PRC.pdf](http://www.nerc.com/pa/Stand/Project200706SystemProtectionCoordinationDL/NERC_SPCTF_Assessment_of_Standard_PRC.pdf).

<sup>25</sup> *Id.* at 3–4.

<sup>26</sup> NERC Letter from Rick Sergel, NERC President, Regarding System Protection Initiative at Figure 2 (April 24, 2009).

<sup>27</sup> *Id.* at 1.

<sup>28</sup> *Id.* at 1–2.

<sup>29</sup> NERC Misoperations Report (2013), [http://www.nerc.com/comm/PC/Protection%20System%20Misoperations%20Task%20Force%20PSMTF%202/PSMTF\\_Report.pdf](http://www.nerc.com/comm/PC/Protection%20System%20Misoperations%20Task%20Force%20PSMTF%202/PSMTF_Report.pdf).

employing a 15 percent deviation threshold in proposed Reliability Standard PRC-027-1, Requirement R2, Option 2. We seek to better understand the basis for this threshold to ensure an adequate record in the proceeding on this matter.

### III. Information Collection Statement

26. The collection of information addressed in this Notice of Proposed Rulemaking is subject to review by the Office of Management and Budget (OMB) under section 3507(d) of the Paperwork Reduction Act of 1995.<sup>41</sup> OMB's regulations require approval of certain information collection requirements imposed by agency rules.<sup>42</sup> Upon approval of a collection(s) of information, OMB will assign an OMB control number and an expiration date. Respondents subject to the filing requirements of a rule will not be penalized for failing to respond to these collections of information unless the

collections of information display a valid OMB control number.

27. The Commission will submit the information collection requirement to OMB for its final review and approval. We solicit public comments on the need for this information, whether the information will have practical utility, the accuracy of the burden estimates, ways to enhance the quality, utility, and clarity of the information to be collected or retained, and any suggested methods for minimizing respondents' burden, including the use of automated information techniques.

28. The information collection requirements in this Notice of Proposed Rulemaking in Docket No. RM16-22-000 are associated with FERC-725A,<sup>43</sup> FERC-725G6,<sup>44</sup> and FERC-725Y, as discussed below.

29. *Public Reporting Burden:* The number of respondents below is based on an examination of the NERC compliance registry on April 7, 2017, for transmission owners, generator owners,

generator operators, and distribution providers within the United States and an estimate of how many entities from that registry will be affected by the Reliability Standards proposed for adoption and implementation. At the time of Commission review of proposed Reliability Standards PRC-027-1 and PER-006-1, 334 transmission owners, 913 generator owners, 875 generator operators, and 365 distribution providers in the United States were registered in the NERC compliance registry. However, under NERC's compliance registration program, entities may be registered for multiple functions, so these numbers incorporate some double counting. We note that many generation sites share a common generator owner or generator operator. The following table provides the estimated proposed annual burden and cost related to information collection requirements in this Notice of Proposed Rulemaking.<sup>45</sup>

#### PROPOSED CHANGES IN THE NOPR IN DOCKET NO. RM16-22-000

Respondent category and requirement <sup>46</sup>	Number of respondents	Annual number of responses per respondent	Total number of annual responses	Average burden hours and cost per response <sup>47</sup>	Annual burden hours and total annual cost (rounded) <sup>48</sup>
	(1)	(2)	(1) * (2) = (3)	(4)	(3) * (4) = (5)
<b>FERC-725G6 (Covering Proposed Reliability Standard PRC-027-1) <sup>49</sup></b>					
TO; Reporting Reqs. R1, R2, & R3 .....	334	1	334	60 hrs.; \$3,941.40 ..	20,040 hrs.; \$1,316,428.
TO; Recordkeeping Reqs. ....	334	1	334	40 hrs.; \$1,565.60 ..	13,360 hrs.; \$522,910.
GO; Reporting Reqs. R1, R2, & R3 .....	913	1	913	10 hrs.; \$656.90 .....	9,130 hrs.; \$599,750.
GO; Recordkeeping Reqs. ....	913	1	913	10 hrs.; \$391.40 .....	9,130 hrs.; \$357,348.
DP; Reporting Reqs R1, R2, & R3 .....	365	1	365	10 hrs.; \$656.90 .....	3,650 hrs.; \$239,769.
DP; Recordkeeping Reqs. ....	365	1	365	10 hrs.; \$391.40 .....	3,650 hrs.; \$142,861.
<i>Sub-Total for Reporting Reqs. for FERC-725G6.</i>	.....	.....	.....	.....	32,820 hrs.; \$2,155,947.
<i>Sub-Total for Recordkeeping Reqs. for FERC-725G6.</i>	.....	.....	.....	.....	26,140 hrs.; \$1,023,119.
<b>Total Proposed Increase for FERC-725G6.</b>	.....	.....	.....	.....	<b>58,960 hrs.; \$3,179,066.</b>
<b>FERC-725Y (Covering Proposed Reliability Standard PER-006-1)</b>					
GOP; Reporting Req. R1 .....	875	1	875	5 hrs.; \$328.45 .....	4,375 hrs.; \$287,394.
GOP; Recordkeeping Req. ....	875	1	875	10 hrs.; \$391.40 .....	8,750 hrs.; \$342,475.
<b>Total Proposed Increase for FERC-725Y</b> ....	.....	.....	.....	.....	<b>13,125 hrs.; \$629,869.</b>
<b>Reductions to FERC-725A (Covering Proposed Retirement of Reliability Standard PRC-001-1.1) <sup>50</sup></b>					
GOP; Reporting Req. ....	875	1	875	40 hrs.; \$2,627.60 ..	35,000 hrs.; \$2,299,150.
GOP; Recordkeeping Req. ....	875	1	875	50 hrs.; \$1,957.00 ..	43,750 hrs.; \$1,712,375.

<sup>41</sup> 44 U.S.C. 3507(d).

<sup>42</sup> 5 CFR 1320.11.

<sup>43</sup> FERC-725A (OMB Control No. 1902-0244) currently includes the information collection requirements associated with Reliability Standard PRC-001-1.1(ii), which is proposed for retirement. Only one item per OMB Control No. may be pending OMB review at a time, and an unrelated item affecting FERC-725A is pending OMB review. We are providing estimates of the burden reduction

related to FERC-725A for review and comment. However, to submit this Notice of Proposed Rulemaking timely to OMB, the Commission is being conservative and not reducing the burden estimates associated with FERC-725A at this time.

<sup>44</sup> The information collection requirements related to proposed Reliability Standard PRC-027-1 would normally be included in FERC-725G (OMB Control No. 1902-0252). However, only one item per OMB Control No. may be pending OMB review

at a time, and an unrelated item affecting FERC-725G is pending OMB review. For this Notice of Proposed Rulemaking and the related submittal to OMB, we use a placeholder information collection no. of FERC-725G6.

<sup>45</sup> TO = transmission owner; TOP = transmission operator; GO = generator owner; GOP = generator operator; DP = distribution provider; and BA = balancing authority.

## PROPOSED CHANGES IN THE NOPR IN DOCKET NO. RM16-22-000—Continued

Respondent category and requirement <sup>46</sup>	Number of respondents	Annual number of responses per respondent	Total number of annual responses	Average burden hours and cost per response <sup>47</sup>	Annual burden hours and total annual cost (rounded) <sup>48</sup>
	(1)	(2)	(1) * (2) = (3)	(4)	(3) * (4) = (5)
TOP; Reporting Req. ....	177	1	177	60 hrs.; \$3,941.40 ..	10,620 hrs.; \$697,628.
TOP; Recordkeeping Req. ....	177	1	177	70 hrs.; \$2,739.80 ..	12,390 hrs.; \$484,945.
BA; Reporting Req. ....	99	1	99	32 hrs.; \$2,102.08 ..	3,168 hrs.; \$208,106.
BA; Recordkeeping Req. ....	99	1	99	20 hrs.; \$782.80 .....	1,980 hrs.; \$77,497.
Reduction Sub-Total Reporting Reqs. for FERC-725A.					48,788 hrs.; \$3,204,884.
Reduction Sub-Total Recordkeeping Reqs. for FERC-725A.					58,120 hrs.; \$2,274,817.
Reduction, Sub-Total for FERC-725A ...					106,908 hrs.; \$5,479,701 (reduction).
NET TOTAL REDUCTION FOR PROPOSED CHANGES IN NOPR IN RM16-22-000.					34,823 hrs.; \$1,670,766 (reduction).

**Titles:** FERC-725G6 (Mandatory Reliability Standard PRC-027-1) and FERC-725Y (Mandatory Reliability Standards: Operations Personnel Training (PER-005-2 and PER-006-1).

**Action:** Revision to existing collections and proposed new information collection.

**OMB Control Nos.:** To be determined (FERC-725G6) <sup>51</sup> and 1902-0279 (FERC-725Y).

**Respondents:** Business or other for profit, and not for profit institutions.

**Frequency of Responses:** Annual recordkeeping and reporting requirements, with some reporting

<sup>46</sup> For each Reliability Standard, the Measure shows the acceptable evidence for the associated Reporting Requirement, and the Compliance section details the related Recordkeeping Requirement.

<sup>47</sup> Based on data from the Bureau of Labor Statistics, the average hourly cost (wages plus benefits) is \$65.69/hour for an engineer, and \$39.14/hour for a record clerk. The hourly cost for an engineer is used for reporting requirements; the hourly cost for a record clerk is used for recordkeeping requirements.

<sup>48</sup> For display purposes, the cost figures in column 5 have been rounded.

<sup>49</sup> Some of the reporting requirements are required at least every six calendar years. In this table, the Commission assumes that respondents might work on some of their elements each year; the annual burden estimate shown is one sixth of the burden associated with one complete six-year cycle. For example, for each transmission owner: (a) the annual reporting burden associated with Requirements R1, R2, and R3 is shown as 60 hours per year, and (b) the burden for the six-year cycle would be six times that, or a total of 360 hours.

<sup>50</sup> The estimates for average annual burden hours per response are based on Order No. 693, FERC Stats. & Regs. ¶ 31,242 at PP 1906, 1907. The numbers of respondents and estimated hourly costs are based on current figures.

<sup>51</sup> OMB will assign a Control No. when it issues a decision.

requirements being at least once every six years.

**Necessity of the Information:** Proposed Reliability Standards PRC-027-1 and PER-006-1 set forth requirements for coordination of protection systems and personnel training on specific topics essential to reliability. The Commission proposes to approve proposed Reliability Standards PRC-027-1 and PER-006-1, which will replace Commission-approved Reliability Standard PRC-001-1.1(ii). The proposed Reliability Standards PRC-027-1 and PER-006-1 improve upon the existing Reliability Standard PRC-001-1.1(ii) because the proposed Reliability Standards assign responsibilities to entities with more appropriate resources and skill sets to conduct studies required to coordinate protection systems. The proposed Reliability Standards also provide additional clarity to the applicable entities.

**Internal review:** The Commission has assured itself, by means of its internal review, that there is specific, objective support for the burden estimates associated with the information requirements.

30. Interested persons may obtain information on the reporting requirements by contacting the Federal Energy Regulatory Commission, Office of the Executive Director, 888 First Street NE., Washington, DC 20426 [Attention: Ellen Brown, email: [DataClearance@ferc.gov](mailto:DataClearance@ferc.gov), phone: (202) 502-8663, fax: (202) 273-0873].

31. Comments concerning the information collection proposed in this Notice of Proposed Rulemaking and the

associated burden estimates should be sent to the Commission in this docket and may also be sent to the Office of Management and Budget, Office of Information and Regulatory Affairs [Attention: Desk Officer for the Federal Energy Regulatory Commission]. For security reasons, comments should be sent by email to OMB at the following email address: [oira\\_submission@omb.eop.gov](mailto:oira_submission@omb.eop.gov). Please refer to OMB Control Nos. to be determined (FERC-725G6) and 1902-0279 (FERC-725Y) in your submittal.

#### IV. Environmental Analysis

32. The Commission is required to prepare an Environmental Assessment or an Environmental Impact Statement for any action that may have a significant adverse effect on the human environment.<sup>52</sup> The action proposed here falls within the categorical exclusion in the Commission's regulations for rules that are clarifying, corrective or procedural, for information gathering, analysis, and dissemination.<sup>53</sup>

#### V. Regulatory Flexibility Act

33. The Regulatory Flexibility Act of 1980 (RFA) generally requires a description and analysis of proposed rules that will have significant economic impact on a substantial number of small entities.<sup>54</sup> The Small Business Administration (SBA) defines

<sup>52</sup> *Regulations Implementing the National Environmental Policy Act of 1969*, Order No. 486, FERC Stats. & Regs. ¶ 30,783 (1987) (cross-referenced at 41 FERC ¶ 61,284).

<sup>53</sup> 18 CFR 380.4(a)(2)(ii).

<sup>54</sup> 5 U.S.C. 601-612.

which utilities are small businesses based on the number of employees that a utility and its affiliates employ.<sup>55</sup>

34. The proposed Reliability Standard PRC-027-1 (included in FERC-725G6) will apply to approximately 1,612 entities (334 transmission owners, 913 generator owners, and 365 distribution providers) in the United States.<sup>56</sup> Pursuant to SBA regulations, the employment threshold for transmission is 500 employees, for generator owners is between 250 and 750 employees (depending on the fuel source), and for distribution providers is 1,000 employees. We estimate that the annual cost for each entity will be \$1,048 for each generator owner and distribution provider and \$5,507 for each transmission owner.

35. The proposed Reliability Standard PER-006-1 (included in FERC-725Y) will apply to approximately 875 generator operators in the United States. Pursuant to SBA regulations the employment threshold for generator operators is between 250 and 750 employees (depending on the fuel source). We estimate that the annual cost for each generator operator will be \$719.

36. In addition, this Notice of Proposed Rulemaking proposes the retirement of Reliability Standard PRC-001-1.1(ii) (included in FERC-725A). That retirement would decrease the annual estimated cost for 875 generator operators by \$4,585 each, for 177 transmission operators by \$6,681 each, and for 99 balancing authorities by \$2,885 each. For the generator operators affected by this retirement and the proposed Reliability Standard PER-006-1, the net annual effect would be a decrease of \$3,866 each. We estimate the net annual cost of this Notice of Proposed Rulemaking would vary, by type of entity, from an annual decrease of \$6,681 (for each transmission operator) to an annual increase of \$5,507 (for each transmission owner). We view this as a minimal economic impact for each entity. Accordingly, we certify that the proposed Reliability Standards PRC-027-1 and PER-006-1 and retirement of Reliability Standard PRC-001-1.1(ii) will not have a significant economic impact on a substantial number of small entities.

## VI. Comment Procedures

37. The Commission invites interested persons to submit comments on the matters and issues proposed in this

notice to be adopted, including any related matters or alternative proposals that commenters may wish to discuss. Comments are due January 29, 2018. Comments must refer to Docket No. RM16-22-000, and must include the commenter's name, the organization they represent, if applicable, and their address in their comments.

38. The Commission encourages comments to be filed electronically via the eFiling link on the Commission's Web site at <http://www.ferc.gov>. The Commission accepts most standard word processing formats. Documents created electronically using word processing software should be filed in native applications or print-to-PDF format and not in a scanned format. Commenters filing electronically do not need to make a paper filing.

39. Commenters that are not able to file comments electronically must send an original of their comments to: Federal Energy Regulatory Commission, Secretary of the Commission, 888 First Street NE., Washington, DC 20426.

40. All comments will be placed in the Commission's public files and may be viewed, printed, or downloaded remotely as described in the Document Availability section below. Commenters on this proposal are not required to serve copies of their comments on other commenters.

## VII. Document Availability

41. In addition to publishing the full text of this document in the **Federal Register**, the Commission provides all interested persons an opportunity to view and/or print the contents of this document via the Internet through the Commission's Home Page (<http://www.ferc.gov>) and in the Commission's Public Reference Room during normal business hours (8:30 a.m. to 5:00 p.m. Eastern time) at 888 First Street NE., Room 2A, Washington, DC 20426.

42. From the Commission's Home Page on the Internet, this information is available on eLibrary. The full text of this document is available on eLibrary in PDF and Microsoft Word format for viewing, printing, and/or downloading. To access this document in eLibrary, type the docket number of this document, excluding the last three digits, in the docket number field.

43. User assistance is available for eLibrary and the Commission's Web site during normal business hours from the Commission's Online Support at (202) 502-6652 (toll free at 1-866-208-3676) or email at [ferconlinesupport@ferc.gov](mailto:ferconlinesupport@ferc.gov), or the Public Reference Room at (202) 502-8371, TTY (202) 502-8659. Email the Public Reference Room at [public.referenceroom@ferc.gov](mailto:public.referenceroom@ferc.gov).

By direction of the Commission.

Issued November 16, 2017.

**Nathaniel J. Davis, Sr.,**

*Deputy Secretary.*

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## DEPARTMENT OF DEFENSE

### Department of the Army, Corps of Engineers

#### 33 CFR Chapter II

#### Report on Potential Actions To Reduce Regulatory Burdens on Domestic Energy Production

**AGENCY:** Army Corps of Engineers, DoD.

**ACTION:** Notice of availability.

**SUMMARY:** The U.S. Army Corps of Engineers (Corps) has issued a report that examined actions it could take to modify existing regulations that potentially burden the development and use of domestically produced energy resources, such as oil, natural gas, coal, and nuclear energy, as well as renewable energy. The report was required by Executive Order 13783, Promoting Energy Independence and Economic Growth. The report identifies changes that could be made to several nationwide permits that authorize activities under section 10 of the Rivers and Harbors Act of 1899 and section 404 of the Clean Water Act that are associated with domestic energy production and use.

**ADDRESSES:** U.S. Army Corps of Engineers, Attn: CECW-CO-R, 441 G Street NW., Washington, DC 20314-1000.

**FOR FURTHER INFORMATION CONTACT:** Mr. David Olson at 202-761-4922 or access the U.S. Army Corps of Engineers Regulatory Home Page at <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx>.

**SUPPLEMENTARY INFORMATION:** Executive Order (E.O.) 13783, Promoting Energy Independence and Economic Growth, was published in the **Federal Register** on March 31, 2017 (82 FR 16093). That E.O. requires federal agencies to immediately review existing regulations that may burden the development or use of domestically produced energy resources. Section 2 of E.O. 13783 requires federal agencies to prepare and issue reports with specific recommendations to change their regulations that could reduce or eliminate burdens to domestic energy production.

<sup>55</sup> 13 CFR 121.201, Subsector 221.

<sup>56</sup> Many respondents serve multiple roles in the NERC compliance registry, so there is likely double counting in the estimates.