

April 19, 2016

VIA ELECTRONIC FILING

David Erickson
President and Chief Executive Officer
Alberta Electric System Operator
2500, 330 - 5 Avenue SW
Calgary, Alberta
T2P 0L4

Re: Informational Filing of the North American Electric Reliability Corporation in Response to the Federal Energy Regulatory Commission's March 19, 2015 Order

Dear Mr. Erickson,

The North American Electric Reliability Corporation hereby submits this informational filing in response to the Federal Energy Regulatory Commission's order issued March 19, 2015.

Please contact the undersigned if you have any questions concerning this filing.

Respectfully submitted,

/s/ Nina H. Jenkins-Johnston
Nina H. Jenkins-Johnston

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Enclosure

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**BEFORE THE
ALBERTA ELECTRIC SYSTEM OPERATOR**

**NORTH AMERICAN ELECTRIC)
RELIABILITY CORPORATION)**

**INFORMATIONAL FILING OF THE
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION
IN RESPONSE TO THE FEDERAL ENERGY REGULATORY COMMISSION'S
MARCH 19, 2015 ORDER**

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April 19, 2016

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On March 19, 2015, the Federal Energy Regulatory Commission (“FERC”) issued an order largely approving proposed revisions to NERC’s Rules of Procedure (“ROP”) to implement NERC’s Risk-Based Registration (“RBR”) initiative.¹ The purpose of the RBR initiative is to ensure that entities are registered and made subject to Reliability Standards based on the risk that they pose to the Bulk Electric System (“BES”). Consistent with FERC’s direction in the March 2015 Order, NERC hereby submits an informational filing describing the implementation of the RBR initiative and the consequences for reliability to date.²

I. BACKGROUND AND INTRODUCTION

Pursuant to the RBR initiative, NERC proposed three main reforms to registration. The first reform was to modify several functional registration categories. NERC removed purchasing-selling entities (“PSEs”), interchange authorities (“IAs”), and load-serving entities (“LSEs”) from the NERC Compliance Registry (“NCR”).³ These entities perform commercial tasks that pose

¹ *North American Electric Reliability Corporation*, 150 FERC ¶ 61,213 (2015) (“March 2015 Order”).

² March 2015 Order at PP 2, 19, and Ordering Paragraph (C).

³ This informational filing will not address NERC’s progress in removing LSEs from the NCR. NERC will address the status of these implementation efforts in a January 17, 2017 compliance filing consistent with FERC’s *Order on Compliance Filing* in Docket No. RR15-4-001; see *North American Electric Reliability Corporation*, 153 FERC ¶ 61,024 at PP 1 and 25 (2015).

little to no risk to the reliability of the BES. NERC also increased the threshold for registering entities as distribution providers (“DPs”) from 25 MW to 75 MW and FERC approved the application of a sub-set list of NERC Reliability Standards to Underfrequency Load Shedding (“UFLS”) Protection System(s) DPs (“UFLS–Only DPs”). Finally, NERC aligned the definition of five functional registration categories (transmission owners (“TOs”), transmission operators (“TOPs”), generator owners (“GOs”), generator operators (“GOPs”), and DPs) with the BES definition. NERC’s second reform was to institute the risk-based practice of applying a sub-set list of Reliability Standards to qualifying entities that apply for such compliance treatment. The third and final reform was to add the following three procedures to the registration process: (1) a procedure to review registration, deactivation and deregistration decisions; (2) a materiality test to examine a registered entity’s impact on the BES; and (3) an intake procedure for requests for the application a sub-set list of Reliability Standards.

NERC addresses the implementation of these three sets of reforms in this informational filing as follows:⁴

- Section II – the status of deactivation or deregistration of PSEs, IAs, and DPs.
- Section III – the formation of the NERC-led Review Panel; and
- Section IV – an overview of the measured benefits and costs of RBR to date.

⁴ In the March 2015 Order, FERC directed NERC to:

[S]ubmit an informational filing twelve months from the date of issuance of this order that discusses RBR implementation.[footnote omitted] In addition to addressing potential ‘unintended consequences to reliability as a result of the instant proposal,’ NERC should also address: (1) the benefits achieved by RBR implementation; (2) any specific costs associated with ERO and Regional Entity implementation of the program; (3) information and statistics regarding review panel decisions, including but not limited to the types of functional entities seeking application of sub-set lists and Reliability Standards most frequently removed from compliance by sub-set lists; and (4) any other relevant information that would assist the Commission in understanding RBR implementation.

See March 2015 Order at P 19; *see also id.* at P 2 and Ordering Paragraph (C).

II. DEACTIVATION AND/OR DEREGISTRATION OF PSEs / IAs/ DPs

Consistent with FERC’s March 2015 Order, NERC, in concert with the Regional Entities, has deregistered and/or deactivated entities registered as PSEs, IAs, and DPs, as appropriate. Deregistration signifies when an entity is entirely removed from the NCR and is therefore no longer subject to compliance with NERC Reliability Standards. Deactivation signifies when an entity is not listed on the NCR for a particular functional registration category; however, that entity remains on the NCR for another functional registration category or categories for which it must comply with applicable NERC Reliability Standards. NERC notes that unlike PSEs and IAs, which are eliminated functional registration categories from the NCR, NERC did not eliminate the DP registration function from the NCR. Entities registered as DPs that are between 25 MW and 75 MW must apply for deactivation so that a given Regional Entity can assess whether the change in registration is consistent with the NCR criteria. Prior to making changes to any DP registration, each Regional Entity will collect data from the DP to assess the impact on reliability.⁵ In Table 1 – 3 below, NERC shows the Regional Entity and registration function break down of registration changes because of the RBR initiative for DPs, IAs and PSEs.

Table 1

	Total DPs as of April 20, 2015	DP De-activations as of March 1, 2016	DP De-registrations as of March 1, 2016	DP-UFLS Only Registrations as of March 1, 2016	Total DPs Remaining on the NCR as of March 1, 2016 (excluding DP-UFLS)
Total	466	44	35	40	386
FRCC	27	2	1	1	24
MRO	54	12	1	11	40
NPCC	56	15	0	15	41
RF	64	1	6	0	57

⁵ This data analyzed includes: Annual Load Data Report, peak load, Joint Registration Organization/Coordination Functional Registration (“JRO/CFR”) participation, UFLS and Under Voltage Load Shedding participation, participation in Transmission Protection Systems, participation in Transmission Operator restoration plans, and participation in Nuclear Plant Interface.

SERC	73	4	5	3	64
SPP RE	48	5	4	2	39
Texas RE	46	1	10	1	35
WECC	98	4	8	7	86

Table 2

	Total IAs as of April 20, 2015	IA Deactivations as of March 1, 2016	IA Deregistrations as of March 1, 2016	Total IAs on the NCR as of March 1, 2016
Total	43	43	0	0
FRCC	10	10	0	0
MRO	4	4	0	0
NPCC	6	6	0	0
RF	3	3	0	0
SERC	16	16	0	0
SPP RE	2	2	0	0
Texas RE	1	1	0	0
WECC	1	1	0	0

Table 3

	Total PSEs as of April 20, 2015	PSE Deactivations as of March 1, 2016	PSE Deregistrations as of March 1, 2016	Total PSEs on the NCR as of March 1, 2016
Total	690	261	429	0
FRCC	25	12	13	0
MRO	75	37	38	0
NPCC	96	16	80	0
RF	153	43	110	0
SERC	85	37	48	0
SPP RE	66	33	33	0
Texas RE	43	9	34	0
WECC	147	74	73	0

III. REGISTRATION REVIEW PANEL

a. Structure of NERC-Led Review Panel

Consistent with the March 2015 Order, NERC has established the necessary procedures for a NERC-led Review Panel to examine the following types of requests from registered entities:

- requests for the application of a sub-set list of Reliability Standards and/or requirements for registered functions; and
- disputes regarding the application of Sections I through IV of the NCR criteria.

The goal of this panel is to help maintain consistency and oversight in registration decisions made by the ERO Enterprise.⁶ The panel will provide transparency to industry by publicly posting its decisions. NERC and Regional Entity senior executives select the review panel, comprised of a NERC lead with Regional Entity participants. Any given review panel shall comprise of the following individuals:

- no less than one NERC manager from the Registration Services department or Registration Service department appointee;
- no less than one NERC engineer, Registration Services department; and
- no less than eight Regional Entity representatives from the Regional Entities.

NERC developed a form that entities submitting requests to the panel must complete. NERC also created a secure file transfer protocol (“FTP”) site where Regional Entities, entities requesting panel review and entities impacted by a given request (reliability coordinators, balancing authorities, planning authorities, and TOPs) can access information examined by the NERC-led Review Panel in rendering a decision. This site will be the primary means of distributing confidential information necessary for the review. All decisions by the panel shall adhere to Appendix 5A of the NERC ROP.

If an entity does not appeal a decision of the panel, NERC will post the decision and provide notice, as applicable, to FERC. This posting will include the actual panel decision along with summary notes on the decision analysis. Similar to the process for review of “find, fix and track”

⁶ NERC uses the term “ERO Enterprise” to encompass both NERC and the eight Regional Entities.

compliance posting as well as “compliance exception” postings, FERC will review the decisions and summary notes and determine, within 60 days of receiving notice from NERC, whether any formal FERC review is warranted. If FERC takes no action within 60 days, FERC will consider the matter closed.⁷

b. Sub-Set Lists of Reliability Standards

In the March 2015 Order, FERC approved the application of a sub-set list of NERC Reliability Standards to UFLS-Only DPs. In 2014 and 2015, NERC examined whether entities other than UFLS-only DPs could qualify for a reduced set of compliance obligations through a sub-set list of Reliability Standards. NERC specifically looked at groups of lower risk GOs, GOPs, TOs, and TOPs. NERC held meetings and workshops to collaborate with industry on this assessment. Specifically, NERC examined technical and reliability risk factors to identify possible lower risk candidates. NERC analyzed: (1) submissions / requests from GOs/GOPs and TOs/TOPs self-identifying as lower risk with proposed technical justifications; (2) pre-identified Reliability Standards and requirements that may be low risk for GO/GOP and TO/TOP entities; and (3) detailed analysis of events and enforcement history to evaluate potential low risk TO/TOP and GO/GOP entities.

NERC found no consistent set of criteria or system characteristics that define a group or groups of lower risk registered entities that should qualify for a reduced set of compliance obligations through a sub-set list of Reliability Standards. Until a consistent pattern emerges warranting a common sub-set list of Reliability Standards, future candidates of sub-set lists must apply directly to the NERC-led Review Panel for a case-by-case basis determination. NERC will continue to monitor these groups as well as the panel’s decisions.

⁷ March 2015 Order at P 69.

IV. RELIABILITY IMPACTS OF RBR

a. Compliance Monitoring Observations

The implementation of RBR has reduced the scope of compliance monitoring engagements in the case of entities that have deactivated DP functions or for entities that have obtained UFLS-only registration status.

b. Event Analysis Observations

Using NERC's Event Analysis Management System, NERC evaluated whether PSE, IA, and DP entities that were deregistered or deactivated had been involved in any system events since April 20, 2015 when the ERO started processing deactivations and deregistrations. Entities reported that for all deactivated / deregistered PSE, IA, and DP entities shown in Tables 1 – 3 above, there were no Category 1 – 5 events reported, no Department of Energy Form OE-417 reports submitted, and no compliance issues related to Reliability Standard EOP-004. None of these entities have been reported in the Situational Analysis Morning Report, which publishes events on the BES. NERC will continue to monitor these entities to assess whether they have any unintended consequences to reliability.

c. ERO Enterprise Resources

Through a questionnaire distributed to Regional Entities, NERC ascertained that there has not been a material cost impact for the ERO Enterprise to implement RBR, nor is there an anticipated cost impact. Although dependent upon the number of submittals received, it is anticipated that the RBR program will require subject matter expert analysis and possibly additional travel expenses for the NERC-led panel to meet periodically. The deactivation / deregistration of IAs, PSEs, and certain DPs did not affect costs across the ERO Enterprise.

V. OTHER DEVELOPMENTS

a. Common Registration Form

Under current registration practices, each Regional Entity posts a common registration form on its website for an entity to provide information needed for registration. Upon completion, the entity submits the form to the appropriate Regional Entity (Entities). During 2015, the NERC Registration and Certification Functional Group collaborated with the Regional Entities to develop a common registration form to capture, without undue complexity, key factors relevant to an assessment of an entity's inherent risk as well as to facilitate uniformity in the information being collected from registration candidates.

b. One-Time Attestation

In its January 6, 2015 filing, NERC proposed to permit registered entities to record a one-time attestation of "Not Applicable" to a given Reliability Standard requirement. These attestations are appropriate, for example, where an existing physical or technical limitation makes a requirement inapplicable or where a registered entity does not own or operate certain equipment or assets. The Regional Entity would then carry forward this declaration from year-to-year, without requiring the registered entity to repeat the attestation each year, unless circumstances materially change requiring the need for the registered entity to notify the appropriate Regional Entity. NERC or the Regional Entity would have the ability to verify the recordation is correct, on an as-needed basis, but this should be infrequent. Until one-time attestations can be automated, they will be recorded as part of an entity's Inherent Risk Assessment that is developed as part of the ERO Enterprise compliance-monitoring activities.

VI. CONCLUSION

The reforms introduced by the RBR initiative are designed to ensure that the right entities are subject to the right set of Reliability Standards so that NERC can effectively manage risks to reliability. To date, there are no unintended consequences to reliability as a result of the deactivation and/or deregistration of the above-mentioned IAs, PSEs and DPs.

Respectfully Submitted,

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