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## Standards EOP-005-3 – System Restoration from Blackstart Resources, EOP-006-3 – System Restoration Coordination, and EOP-008-2 – Loss of Control Center Functionality

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### 1. OVERVIEW OF THE STANDARDS

#### 1.1. Applicability of reliability standards

The functions subject to the standards EOP-005-3, EOP-006-3 and EOP-008-2 are listed below.

Standard	Functions covered
EOP-005-3	Transmission Operator – (TOP) Generator Operator (GOP) Transmission Owner (TO) identified in the Transmission Operators (TOP) restoration plan Distribution Providers (DP) identified in the Transmission Operators (TOP) restoration plan
EOP-006-3	Reliability Coordinator (RC)
EOP-008-2	Reliability Coordinator (RC) Transmission Operator (TOP) Balancing Authority (BA)

#### 1.2. Objectives of reliability standards

The objective of standard EOP-005-3 is to ensure that plans, facilities, and personnel are prepared for system restoration from Blackstart Resources so that reliability is maintained during restoration and priority is placed on restoring the Interconnection. EOP-005-2 is the standard currently in effect in Québec.

The objective of standard EOP-006-3 is to ensure that restoration plans are established and personnel are prepared to enable effective coordination of the system restoration process so that reliability is maintained during restoration and priority is placed on restoring the Interconnection. EOP-006-2 is the standard currently in effect in Québec.

The objective of standard EOP-008-2 is to ensure the continued reliable operation of the Bulk Electric System (BES) in the event that a control center becomes inoperable. EOP-008-1 is the standard currently in effect in Québec.

### 1.3. Regulatory context

The Régie de l'énergie (hereinafter called the "Régie") adopted EOP-005-2, EOP-006-2 and EOP-008-1 in its decision D-2015-198<sup>1</sup> and set April 1, 2016 as the date these standards came into effect in Québec.

Standards EOP-005-3, EOP-006-3 and EOP-008-2 were adopted by the NERC Board of Trustees on February 9, 2017, and the latest versions were approved by FERC in Order No. 840,<sup>2</sup> with an effective date of March 26, 2018.

### 1.4. Specific provisions for Québec

A special provision applicable to requirement R16 of Standard EOP-005-2 was rolled into the Québec appendix of EOP-005-3.

### 1.5. Proposed effective dates

EOP-005-3, EOP-006-3 and EOP-008-2 went into effect in the United States on April 1, 2019. The NERC Implementation Plan prescribed a period of 12 months between regulatory approval and the effective date.

In Québec, the Reliability Coordinator (hereinafter called the "Coordinator") proposes a period of twelve months between adoption of the standards by the Régie and the effective date.

### 1.6. Standards or requirements proposed for retirement

To be retired	Comments
EOP-005-2	EOP-005-2, which has been in effect since April 1, 2016, will have to be retired when EOP-005-3 becomes effective.
EOP-006-2	EOP-006-2, which has been in effect since April 1, 2016, will have to be retired when EOP-006-3 becomes effective.
EOP-008-1	EOP-008-1, which has been in effect since April 1, 2016, will have to be retired when EOP-008-2 becomes effective.

### 1.7. Modifications to the Glossary

- No modifications to the Glossary.

## 2. ASSESSMENT OF RELEVANCE

Standards EOP-005-3, EOP-006-3 and EOP-008-2 are the result of NERC's "Project 2015-08 Emergency Operations".<sup>3</sup> This review project follows in the wake of the "2015-02 Periodic Review of Emergency

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<sup>1</sup> Régie de l'énergie, Decision D-2015-198, retrieved July 22, 2019 from [http://publicsde.regie-energie.qc.ca/projets/283/DocPrj/R-3906-2014-A-0006-Dec-Dec-2015\\_12\\_09.pdf](http://publicsde.regie-energie.qc.ca/projets/283/DocPrj/R-3906-2014-A-0006-Dec-Dec-2015_12_09.pdf)

<sup>2</sup> FERC Order No. 840, FERC docket No. RM17-12-000, retrieved July 3, 2019 from <https://www.ferc.gov/whats-new/comm-meet/2018/011818/E-3.pdf>

<sup>3</sup> Project 2015-08 Emergency Operations, retrieved July 3, 2019 from <https://www.nerc.com/pa/Stand/Pages/Project-2015-08-Emergency-Operations.aspx>

Operations”,<sup>4</sup> in which the Periodic Review Team evaluated the need to update the emergency operations standards, including EOP-005-2, EOP-006-2 and EOP-008-1, as required in Section 13.0 of the *Standard Processes Manual*.<sup>5</sup> NERC has an obligation to review each reliability standard at least once every ten years.

In Project 2015-08 Emergency Operations, the Periodic Review Team analyzed the revisions and retirements recommended by a group of experts as part of NERC’s Project 2015-02 Periodic Review of Emergency Operations. The proposed changes substantially improve the current standards by clarifying requirements for emergency operations, including communication and coordination among *Registered Entities*. The review was also an opportunity to streamline the standards, apply the criteria in FERC’s Paragraph 81<sup>6</sup> and incorporate the principles of Results-based standards while addressing the recommendations pending from FERC Order No. 749.

The changes improved reliability by:

- defining Registered Entities’ roles and responsibilities with respect to system restoration from blackstart resources (EOP-005-3),
- clarifying coordination requirements and procedures of Reliability Coordinator personnel regarding system restoration plan implementation (EOP-006-3) and,
- fine-tuning the Operating Plan to be deployed in the event that the primary control center functionality is lost (EOP-008-2).

The main changes are as follows:

#### EOP-005-3

- R1 has been modified to stipulate that the Transmission Operator must not only have a restoration plan but must also implement it.
- Sub-requirement 3.1 of R3 has been deleted, along with requirements R7 and R8.
- R4 clarifies the Transmission Operator’s requirement to obtain approval from the Reliability Coordinator for any change to its restoration plan.

#### EOP-006-3

- R1 has been modified to stipulate that the Reliability Coordinator must not only have a restoration plan but must also implement it.
- Sub-requirements 1.2, 1.3 and 1.4 of R1 have been deleted, along with requirements R7 and R8.
- A timeframe for reviewing the restoration plans of neighboring Reliability Coordinators has been added to R4.

#### EOP-008-2

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<sup>4</sup> Project 2015-02 Emergency Operations Periodic Review Team, retrieved July 3, 2019 from <https://www.nerc.com/pa/Stand/Pages/Project-2015-02-Emergency-Operations-Periodic-Review.aspx>

<sup>5</sup> NERC *Standard Processes Manual*, Section 13, page 43, retrieved July 3, 2019 from [http://www.nerc.com/comm/SC/Documents/Appendix\\_3A\\_StandardsProcessesManual.pdf](http://www.nerc.com/comm/SC/Documents/Appendix_3A_StandardsProcessesManual.pdf)

<sup>6</sup> Project 2013-02 in response to paragraph 81 FERC’s March 15, 2012 Order, retrieved July 3, 2019 from [https://www.nerc.com/pa/Stand/Pages/Project2013-02\\_Paragraph\\_81.aspx](https://www.nerc.com/pa/Stand/Pages/Project2013-02_Paragraph_81.aspx)

- R1 has been modified to clarify what must be included in the Operating Plan deployed by the Reliability Coordinator, the Balancing Authority and the Transmission Operator in the event that the primary control center functionality is lost.
- Minor modifications have been made to eliminate ambiguity and use language compatible with the other reliability standards.

Project 2015-08 involves modifying EOP-005-2, EOP-006-2 and EOP-008-1, the standards in effect in Québec.

Under the 2009 agreement between the Régie, NERC and the NPCC, and with the authorization of the Québec government,<sup>7</sup> these standards have been developed and approved by external bodies for North America, including Québec. In the opinion of the *Reliability Coordinator*, the three standards are important for system reliability in Québec and contribute to harmonization with neighboring systems.

### 3. PRELIMINARY IMPACT ASSESSMENT

This section presents the *Reliability Coordinator's* preliminary assessment of the impact of the proposed standards.

EOP-005-3	Low	Moderate	High
Implementation	X		
Enforcement	X		
Compliance monitoring	X		

EOP-006-3	Low	Moderate	High
Implementation	X		
Enforcement	X		
Compliance monitoring	X		

EOP-008-2	Low	Moderate	High
Implementation	X		
Enforcement	X		
Compliance monitoring	X		

#### Legend:

- Low:** Business as usual or only minor adjustments to existing processes or practices.  
**Moderate:** Will require the allocation of some physical, human or financial resources.  
**High:** Will require the allocation of significant physical, human or financial resources.

### 4. FINAL IMPACT ASSESSMENT

This section will be completed upon receipt of the impact assessment forms and at the conclusion of the consultation process prior to filing the standards with the Régie de l'énergie.

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7. Agreement entered into in accordance with Order-in-Council 443-21009 of April 8, 2019.