

Alberta Reliability Standard

Event Reporting

EOP-004-AB-4

A. Introduction

1. Title: Event Reporting
2. Number: EOP-004-AB-4
3. Purpose: To improve the **reliability** of the **bulk electric system** by requiring the reporting of events by Responsible Entities.
4. Applicability:
 - 4.1. Functional Entities: For the purpose of the Requirements and the EOP-004-AB-4 Attachment 1 contained herein, the following functional entities will be collectively referred to as "Responsible Entities."
 - 4.1.1. the **ISO**;
 - 4.1.2. the **legal owner** of a **transmission facility** that is part of the **bulk electric system**;
 - 4.1.3. the **operator** of a **transmission facility** that is part of the **bulk electric system**;
 - 4.1.4. the **legal owner** of a **generating unit**, the **legal owner** of an **aggregated facility**, and the **legal owner** of an **energy storage resource** that is part of the **bulk electric system**; and
 - 4.1.5. the **operator** of a **generating unit**, the **operator** of an **aggregated facility**, and the **operator** of an **energy storage resource** that is part of the **bulk electric system**.
5. Effective Date: The later of (i) July 1, 2029, and (ii) the first **day** of the first calendar quarter 12 **months** following **Commission** approval.

B. Requirements and Measures

- R1. The **legal owner** of a **transmission facility**, the **operator** of a **transmission facility**, the **legal owner** of a **generating unit**, the **legal owner** of an **aggregated facility**, the **legal owner** of an **energy storage resource**, the **operator** of a **generating unit**, the **operator** of an **aggregated facility**, and the **operator** of an **energy storage resource** must have an event reporting **operating plan** in accordance with EOP-004-AB-4 Attachment 1 that includes the protocol(s) for reporting to the **ISO**, law enforcement, or governmental authority. *[Alberta Risk Rating: Lower] [Time Horizon: Operations Planning]*
- R1.A. The **ISO** must have an event reporting **operating plan** in accordance with EOP-004-AB-4 Attachment 1 that includes the protocol(s) for reporting to **NERC** and other organizations, e.g., the **WECC**, law enforcement, or governmental authority. *[Alberta Risk Rating: Lower] [Time Horizon: Operations Planning]*
- M1. Each Responsible Entity must have a dated event reporting **operating plan** that includes protocol(s) and each organization identified to receive an event report for event types specified in EOP-004-AB-4

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Attachment 1 and in accordance with the entity responsible for reporting.

R2. Each Responsible Entity must report events specified in EOP-004-AB-4 Attachment 1 to the entities specified per their event reporting **operating plan** by the later of 24 hours of recognition of meeting an event type threshold for reporting or by the end of the Responsible Entity's next **business day** (4 p.m. local time is the end of the **business day**). *[Alberta Risk Rating: Medium] [Time Horizon: Operations Assessment]*

M2. Each Responsible Entity must have, as evidence of reporting an event to the entities specified per their event reporting **operating plan**, a copy of the completed EOP-004-AB-4 Event Reporting Form; and some evidence of submittal (e.g., operator log or other operating documentation, voice recording, electronic mail message, or confirmation of facsimile, demonstrating that the event report was submitted by the later of 24 hours of recognition of meeting an event type threshold for reporting or by the end of the Responsible Entity's next **business day** (4 p.m. local time is the end of the **business day**).

R2.A. Notwithstanding Requirement R2, where the Responsible Entity cannot comply with the requirement to report events within the timeframe specified, the affected Responsible Entity must notify entities specified per their event reporting **operating plan** per Requirement R2 and provide as much information available at the time of the notification. *[Alberta Risk Rating: Lower] [Time Horizon: Operations Planning]*

M2.A. Where the Responsible Entity cannot comply with the requirement to report events within the timeframe specified in Requirement R2, each Responsible Entity must have evidence of notifying entities specified per their event reporting **operating plan** per Requirement R2 and evidence of providing as much information available at the time of the notification.

C. Compliance

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D. Regional Variances

None.

E. Associated Documents

AESO Information Document #2016-002R, *Event Notification, Reporting and Analysis* and any amendments made thereto from time to time.

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EOP-004-AB-4 - Attachment 1: Reportable Events

Event Type	Entity with Reporting Responsibility	Threshold for Reporting	Entity to Submit Report to
Damage or destruction of a facility	Operator of a transmission facility , legal owner of a transmission facility	Damage or destruction of a facility within the operator of a transmission facility 's area that results in action(s) to avoid an emergency in the bulk electric system .	ISO , PSIO, RCMP and, where applicable, local police
Damage or destruction of its facility	Legal owner of a transmission facility , operator of a transmission facility , legal owner of a generating unit , legal owner of an aggregated facility , and legal owner of an energy storage resource , operator of a generating unit , operator of an aggregated facility and operator of an energy storage resource	Damage or destruction of its facility that results from actual or suspected intentional human action. It is not necessary to report theft unless it degrades normal operation of its facility.	ISO , PSIO, RCMP and, where applicable, local police
Physical threats to its facility	Legal owner of a transmission facility , operator of a transmission facility , legal owner of a generating unit , legal	Physical threat to its facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the facility. OR	ISO , PSIO, RCMP and, where applicable, local police

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Event Type	Entity with Reporting Responsibility	Threshold for Reporting	Entity to Submit Report to
	owner of an aggregated facility, and legal owner of an energy storage resource, operator of a generating unit, operator of an aggregated facility, and operator of an energy storage resource	Suspicious device or activity at its facility.	
Physical threats to its control centre	ISO, operator of a transmission facility	Physical threat to its control centre , excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the control centre . OR Suspicious device or activity at its control centre .	ISO : See R1.A Other entity: ISO , PSIO, RCMP and, where applicable, local police
Public appeal for load reduction resulting from an emergency in the bulk electric system	ISO	Public appeal for load reduction to maintain continuity of the bulk electric system .	See R1.A
System-wide voltage reduction resulting from an	ISO	System-wide voltage reduction of 3% or more.	See R1.A

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Event Type	Entity with Reporting Responsibility	Threshold for Reporting	Entity to Submit Report to
emergency in the bulk electric system			
Firm load shedding resulting from an emergency in the bulk electric system	Initiating ISO or operator of a transmission facility	Firm load shedding ≥ 100 MW (manual or automatic).	ISO : See R1.A Other entity: ISO , PSIO, RCMP and, where applicable, local police
An emergency in the bulk electric system resulting in voltage deviation on a facility	Operator of a transmission facility	A voltage deviation of $\geq 10\%$ of nominal voltage sustained for ≥ 15 continuous minutes.	ISO
Uncontrolled loss of firm load resulting from an emergency in the bulk electric system	ISO, operator of a transmission facility	Uncontrolled loss of firm load for ≥ 15 minutes from a single incident: ≥ 300 MW for entities with previous year's peak demand $\geq 3,000$ MW OR ≥ 200 MW for all other entities	ISO : See R1.A Other entity: ISO
System separation (islanding)	ISO, operator of a transmission facility	Each separation resulting in an island ≥ 100 MW, excluding an island created by the loss of a transmission system radial connection,	ISO : See R1.A Other entity: ISO

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Event Type	Entity with Reporting Responsibility	Threshold for Reporting	Entity to Submit Report to
		non- transmission system facilities (distribution level), or interconnections	
Generation loss	ISO	Total generation loss, within one minute, of $\geq 2,000$ MW in the western interconnection Generation loss will be used to report forced outages not weather patterns or fuel supply unavailability for dispersed power producing resources.	See R1.A
Complete loss of off-site power to a nuclear power plant (grid supply)	Legal owner of a transmission facility, operator of a transmission facility	Complete loss of off-site power (LOOP) affecting a nuclear generating station per the nuclear plant interface requirements	ISO
Transmission loss	Operator of a transmission facility	Unexpected loss within its area, contrary to design, of three or more bulk electric system facilities caused by a common disturbance (excluding successful automatic reclosing).	ISO
Unplanned evacuation of its control centre	ISO, operator of a transmission facility, operator of a generating unit, operator of an aggregated facility, and operator of an energy storage resource	Unplanned evacuation from its control centre facility for 30 continuous minutes or more.	ISO : See R1.A Other entity: ISO

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Event Type	Entity with Reporting Responsibility	Threshold for Reporting	Entity to Submit Report to
Complete loss of voice communication systems, interpersonal communication, and alternative interpersonal communication capability at its staffed control centre	ISO, operator of a transmission facility, operator of a generating unit, operator of an aggregated facility, and operator of an energy storage resource	Complete loss of voice communication systems, interpersonal communication, and alternative interpersonal communication capability affecting its staffed control centre for 30 continuous minutes or more.	ISO: See R1.A Other entity: ISO
Complete loss of monitoring or control capability at its staffed control centre	ISO, operator of a transmission facility, operator of a generating unit, operator of an aggregated facility, and operator of an energy storage resource	Complete loss of monitoring or control capability at its staffed control centre for 30 continuous minutes or more.	ISO: See R1.A Other entity: ISO
Unexpected outages	operator of a generating unit, operator of an aggregated facility, and operator of an	An unexpected outage impacting 1 or more generating units, aggregated facilities, or energy storage resources , that results in a total loss of supply equal to or greater than 80% of the ISO's most severe single contingency (MSSC) within 10 minutes which	ISO

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	energy storage resource	is caused by a common disturbance and contrary to the design of generating units , aggregated facilities , or energy storage resources .	

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Version History

Version	Effective Date	Description of Changes
AB-4	The later of (i) July 1, 2029, and (ii) the first day of the first calendar quarter 12 months following Commission approval	Revised based on NERC EOP-004-4, approved by FERC in Docket No. RD-4-000. The revision on EOP-004-AB-2 includes adding more responsible entities, adjusting Requirement R1 to include examples of other organizations, changing the reporting period in Requirement R2, removing Requirement R3 from the standard, and including Attachment 1: Reportable Events to the standard to provide more details on the event types, the entities responsible for reporting events, and the threshold for reporting.
AB-2	2016-08-30	Initial Release.

Guideline and Technical Basis

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