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## **EOP– 004–AB–1 Disturbance Reporting**

### **1. Purpose**

The purpose of this *reliability standard* is to ensure that events that jeopardize the operation of the *bulk electric system (BES)*, or result in *system* equipment damage or customer interruptions, are studied and understood to minimize the likelihood of similar events in the future. To ensure that disturbances and unusual occurrences are reported to *WECC* and *NERC*.

### **2. Applicability**

This *reliability standard* applies to the entities listed below:

- *ISO*
- *TFOs*
- *GFOs*

### **3. Definitions**

Italicized terms used in this *reliability standard* have the meanings as set out in the [Alberta Reliability Standards Glossary of Terms](#) and Part 1 of the [ISO Rules](#).

### **4. Requirements**

- R1** The *ISO* must promptly review events as described in Appendix 1 to determine if a *NERC* “Interconnection Reliability Operating Limit and Preliminary Disturbance Report” needs to be completed.
- R2** The *ISO* must analyze events on the *AIES* in accordance with *OPP 1304*.
- R3** *TFOs* and *GFOs* must analyze disturbances on its *system* or *facilities* as requested by the *ISO* in accordance with *OPP 1304*.
- R4** If a reportable event occurs, the *ISO* must provide a *NERC* “Interconnection Reliability Operating Limit and Preliminary Disturbance Report”, as included in Appendix 1, to *WECC* and *NERC* within 24 hours of being recognized.
- R5** Under certain conditions, such as severe weather, it may not be possible to assess the damage caused by a disturbance and issue a written “Interconnection Reliability Operating Limit and Preliminary Disturbance Report” within 24 hours. In such cases, the *ISO* must promptly notify the *Vancouver Reliability Coordinator (VRC)*, and verbally provide as much information as is available at that time. If the *ISO* makes such notification, the *ISO* must then provide timely, periodic verbal updates until adequate information is available to issue a written “Interconnection Reliability Operating Limit and Preliminary Disturbance Report”.
- R6** If, in *WECC*’s judgment, after consultation with the *ISO*, a final report is required, the *ISO* must prepare this report in accordance with “*WECC Reporting Procedures for System Events*”.

### 5. Processes and Procedures

No procedures have been defined for this *reliability standard*.

### 6. Measures

The following measures correspond to the requirements identified in Section 4 of this *reliability standard*. For example, MR1 is the measure for R1.

These measures will be used by the *ISO* in carrying out its *compliance monitoring* duties in accordance with *ISO rule 12*. The *ISO* may consider other data and information, including any provided by a *market participant*.

- MR1** Preliminary disturbance reports exist for events as described in Appendix 1.
- MR2** An *AIES* Disturbance Report exists for each event selected for further assessment in accordance with *OPP 1304*.
- MR3** Information provided meets the requirements of the request.
- MR4** Written confirmation from *WECC* exists that shows the *ISO* provided preliminary disturbance reports to *WECC* within 24 hours of the event being recognized.
- MR5** Shift logs, voice recordings or electronic communications exist to confirm that the requirement is met.
- MR6** Written confirmation exists that shows the *ISO* provided a final report in accordance with "WECC Reporting Procedures for System Events".

## 7. Appendices

### Appendix 1

#### Interconnection Reliability Operating Limit and Preliminary Disturbance Reporting Criteria and Form

The NERC "Interconnection Reliability Operating Limit and Preliminary Disturbance Reports" are to be made for any of the following events:

1. The loss of a bulk power transmission component that results in frequency or voltage going below the *underfrequency* or *under voltage load shed* points.
2. The occurrence of an interconnected *system* separation or *system* islanding or both.
3. Loss of 2000 MW or more of generation or *load* in Alberta.
4. Equipment failures/system operational actions which result in the loss of 300 MW of *demand* for more than 15 minutes.
5. Firm *load* shedding 100 MW or more to maintain continuity of the BES.
6. Any action taken by a generator operator, TFO, WO, WSP, transmission connected end use customer or ISO that results in:
  - a) Sustained voltage excursions equal to or greater than  $\pm 10\%$ , or
  - b) major damage to power *system* components, or
  - c) failure, degradation, or misoperation of *system protection*, special protection schemes, *remedial action schemes*, or other operating systems that do not require operator intervention, which did result in, or could have resulted in, a *system* disturbance as defined by Steps 1 through 5 above.
7. An IROL violation.

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### NERC Interconnection Reliability Operating Limit and Preliminary Disturbance Report

Check here if this is an Interconnection Reliability Operating Limit (IROL) violation report.

1.	Organization filing report.		
2.	Name of person filing report.		
3.	Telephone number.		
4.	Date and time of disturbance. Date:(mm/dd/yy) Time/Zone:		
5.	Did the disturbance originate in your system?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6.	Describe disturbance including: cause, equipment damage, critical services interrupted, system separation, key scheduled and actual flows prior to disturbance and in the case of a disturbance involving a special protection or remedial action scheme, what action is being taken to prevent recurrence.		
7.	Generation tripped. MW Total: List generation tripped:		
8.	Frequency. Just prior to disturbance (Hz): Immediately after disturbance (Hz max.): Immediately after disturbance (Hz min.):		
9.	List transmission lines tripped (specify voltage level of each line).		
10.	Demand tripped (MW): Number of affected Customers:	Firm	Interruptible
11.	Restoration time.	Initial	Final
	Transmission:		
	Generation:		
	Demand:		

Copies to be sent to:

- WECC at [disturbancereports@wecc.biz](mailto:disturbancereports@wecc.biz)
- NERC at [esisac@nerc.com](mailto:esisac@nerc.com)

**8. Guidelines**

No guidelines have been defined for this *reliability standard*.

**Revision History**

Effective	Description
2009-06-17	New Issue