

Date: August 30, 2007

IESO Response to Great Lakes Power Comments on IESO Certification Forms

**Form 1531:**

**R1.** The *transmitter* and *generator* that own a *Special Protection System (SPS)* shall analyze its *SPS* operations, and maintain a record of all misoperations within 60 This does not preclude the IESO requesting for 48 hour reporting or within such longer period of the time that may be agreed to by the IESO (Ch. 5, S. 6.3.5 of the *market rules*), which may be necessary for significant system events and/or disturbances that impact the *ICG* or *gives rise to potential reliability concerns*. calendar days in accordance with *NPCC Document B-21*  
B-21

~~NERC Reliability Standard PRC-016-0: SPS Operation Performance- Misoperation~~

I am trying to find out the definition of "Special Protection System". I have looked at all the referenced document and there is no proper definition of the SPS. Can you please show me where is the definition of SPS?

[IESO]

The IESO definition of SPS is stipulated in Chapter 5, section 8 of the *market rules*– It basically states that:

*Special protection systems ("SPS")* have been installed in a number of locations on the *IESO-controlled grid* which **automatically initiate one or more of the following control actions:**

- load rejection;
- generation rejection;
- generation runback;
- shunt capacitor switching;
- shunt reactor switching; and
- cross-tripping.

**Form 1642:**

**R1.** Each Transmission Owner and Generator Owner *transmitter* and *generator* required to install **disturbance monitoring equipment (DME)**s by its Regional Reliability Organization (reliability standard PRC-002 Requirements 1-3)the *IESO* shall have DMEs installed that meet requirements specified by the *NPCC B-26 Document B-26 - Guide for Application of Disturbance Recording Equipment*, in addition to the

and as the following requirements (Market Manual 7.7 – Disturbance Reporting):

**R3.** The *transmitter* and *generator* Transmission Owner and Generator Owner shall each maintain, and report to its Regional Reliability Organization the *IESO* on request, the following data on the DMEs installed to meet requirements specified by the that region's installation requirements (reliability standard PRC-002 requirements 1.1, 2.1 and 3.1) **NPCC B-26 Document B-26 - Guide for Application of Disturbance Recording Equipment:**

It has installed DMEs according to requirements and specifications described by the *NPCC Document 26 B-26* and the *IESO*

[IESO]

Thank you for the modifications. We shall revise the forms accordingly along with any modifications that additional inputs may require.

**Additional comments:**

Most of today's protective relays come with event and disturbance recorder. I think the NPCC Document B-26 should be revisited to keep up with the current protective relays technology. Otherwise you must be specific if the DFR or SER is stand alone equipment separated from the protective relays. In the electro-mechanical era, DFR and SER were considered as stand-alone equipment.

[IESO]

Thank you for this comment. We shall raise this issue with NPCC.

**No Comment on Form 1638 - UFLS**

**Form 1645 and 1571 are for Generation Group to comment on.**

[IESO]

We look forward to receiving comments from Brookfield Power in this regard.