

# Outage Management Redesign (SE-109)

## Feedback & Response on Materials Presented at the August 27, 2014 SE-109 Meeting



Stakeholders were asked to provide feedback on the following materials presented at the August 27, 2014 meeting:

- The proposed software design updates.
- Security and Adequacy reporting recommendations to support Outage Planning under the redesigned process.
- The proposed Stakeholder Engagement Plan during the Software Implementation Phase.
- The Outage Management Redesign Requirements Summary document.

Feedback was received from the following stakeholders:

- Ontario Power Generation (OPG)
- Portlands Energy Centre

The following pages provide stakeholder feedback in verbatim. The feedback is grouped by the questions that stakeholders were asked to provide feedback on and IESO responses and actions that will be taken are provided in italics beneath each piece of feedback.

### 1. Feedback on the software design updates (Slides 7 to 9).

#### **Ontario Power Generation:**

OPG is seeking clarification on the IESO's proposal of the "varies" constraint code. It appears that the IESO is proposing "nested" constraint codes. OPG drives other applications from its outage software and "nested" constraint codes would result in modifications to multiple applications. OPG would propose implementing a new "priority" code that enables this functionality at the outage request level rather than the constraint code level.

*As discussed at the August 27<sup>th</sup> meeting, the 'VARIES' constraint code would be an enhancement that allows for multiple constraints to be applied to the same piece of equipment on a single outage request (e.g. applying a de-rating to a generating unit for 4 hours and then taking it out-of-service for 5 hours). Note that the software currently only allows one constraint code to be applied to the same piece of equipment on a per outage request basis.*

*The vendor has since identified other functional areas of the software that would require additional customization to accommodate this feature and result in a significant departure from base functionality. Given the low frequency of outage requests that contain multiple constraints to the same piece of equipment (less than 1 percent), the IESO will not be incorporating the 'VARIES' constraint code into the design. This means that*

*market participants will be required to submit multiple outage requests to reflect multiple constraints on the same piece of equipment.*

**Portlands Energy Centre:**

Page 5 of the presentation material provides an example of how the software will manage the actual start and end times of a non-continuous derate profile. On page 9 of the presentation a new “VARIES” constraint code is introduced. Will an outage request with the “VARIES” constraint code transition between states in a similar manner as the example shown on page 5?

*As noted in the response above, the VARIES constraint code will not be incorporated into the software design.*

**2. Security and Adequacy Reporting Recommendations to Support Outage Planning under the Redesigned Process (Slides 10 to 12).Ontario Power Generation:**

**Ontario Power Generation:**

All information contained in the current SAA & SSR reports provide value at some point in the outage planning process and consideration should be given to its retention. Primarily “Excess/Shortfall” and Transmission Interface information is critical. As these reports will now cover the entire Quarterly coverage period consideration should be given to including information in all timeframes similar to the “Zonal Bottled Generation” contained in the 18 Month Outlook. This information will highlight opportunities to take additional capacity on outage due to transmission constraints. Transmission Interface information should also be available over the entire Quarterly coverage period.

*The IESO will consider the feedback provided and present a reporting proposal at the next SE-109 meeting in October.*

**Portlands Energy Centre:**

In general we support the publication of material in these reports that support the Market Participant in assessing when to schedule outages. In particular in the presentation at the June 4, 2014 SE-109 meeting (slide 3) the IESO indicated that the information required to calculate the reserve margin is available in the 18 Month Outlook but will require Market Participant to perform the calculations. We support the IESO calculating and publishing the reserve margin in the 18 Month Outlook rather than asking the Market Participant to calculate it.

*The above comments refer to adding a new reserve margin calculation to the 18 Month Outlook for extreme and normal weather conditions that exclude any future supply installations (in addition to the existing firm and planned scenarios).*

*The IESO considered adding this calculation to the 18 Month Outlook to support outage planning for the redesigned process, however the 18 Month Outlook is currently proposing a revised calculation to the firm*

scenario that would be more closely aligned with the exclusion of future supply installations. As a result, the IESO believes that inclusion of a completely new scenario would be redundant.

### **3. Feedback on The proposed Stakeholder Engagement Plan during the Software Implementation Phase (Slide 13).**

#### **Ontario Power Generation:**

At this time OPG has no comments on the proposed engagement plan.

*The IESO will consider the engagement plan approved and update the SE109 webpage accordingly.*

### **4. Feedback on the Outage Management Redesign Requirements Summary document.**

#### **Ontario Power Generation:**

OPG would like to offer the following comments and feedback on the Outage Management Redesign Requirements Summary as requested in the August 28, 2014 stakeholder email:

#### **Section 1.2 Glossary**

Derated To (DRATE) - means the Equipment cannot operate above a specified capability that is less than its rated capability.

Please confirm that the above constraint code is applicable to both MW and MX capability.

*Yes, this constraint codes applies to both MW and MX (i.e. MVARs).*

#### **State Transition Model**

Please confirm if "outage state" will be available at the API. Outage state is not currently listed in Appendix H Table 4 as an attribute that will be available to participants.

*Yes, outage status (i.e. Submitted, Adv. Approved etc.) will be available at the API. The list in Appendix H will be updated to reflect this.*

#### **Section 2.2.5 Software Support at the End of the Weekly Study Period**

The following bullet should be added to the criteria listed: the Outage Request contains Critical Equipment or the "Request Weekly AA" flag is set.

*The criteria currently listed in the summary document is sufficient as stated since only planned outage requests with Critical Equipment or the "Request Weekly AA" flag set will be transitioned into the Study status at the beginning of the Weekly Study Period. As a result, the state transition criteria at the end of the Weekly Study Period implies that only these outage requests will be acted on (i.e. they are the only planned outage requests in the Study status that correspond to the Weekly Coverage Period).*

## **2.2.5 Software Support at the End of the Weekly Study Period**

## **2.3.5 Software Support at the End of the 3 Day Study Period**

## **2.4.5 Software Support at the End of the 1 Day Study Period**

In each of the above sections, the document indicates that outages will transition automatically to the rejected state if certain criteria are met. How will the IESO provide rejection rationale to participants?

*Automatic rejections will be accompanied by an "AUTO" code and a description stating "Rejected: Study not complete. Please contact IESO for details." These details would be available on the Web Client and API and the summary document will be updated to reflect this.*

## **Appendix H Miscellaneous Features**

### **Table 4 Outage Attributes**

Will the "Remote System ID" allow participants to see the outage ID from other participants i.e. Hydro One on publicly available outages?

*The 'Remote System ID' will allow the IESO to see outage IDs generated by an API user organization's system (i.e. the ID number generated by the Hydro One or OPG outage management system).*

Will the "Operating Security Limit" attribute be available to API users?

*Yes, this attribute will be available to the API user.*