

SE 109 Outage Management Process Redesign

Minutes of Meeting

Date held: August 19, 2015	Time held: 1:00 – 2:30 pm	Location held: Webinar
Invited/Attended	Company Name	Attendance Status (A)ttended; (R)egrets; (S)ubstitute
Little, Dave	Brighton Beach Power	A
Dumoulin, Serge	Brookfield Renewable Power	A
Kom, Nouepeyiô	Brookfield Renewable Energy	A
Chintapalli, Raj	Customized Energy Solutions	A
Jayaraman, Jay	Enbridge Inc.	A
MacDonald, Brad	Emera Energy	A
Bauder, Donald	GDF Suez Canada	A
Simmons, Dave	Gerdau	A
Chayka, Darin	Hydro One	A
Ahmed, Eiman	Hydro One	A
Molyneaux, David	Hydro One	A
Noble, Brian	Hydro One	A
Rainey, Matt	Integ Enterprise Consulting, Inc.	A
Ruiz, Art	NextEra	A
Donnelly, Keith	Northland Power	A
Willis, Albert	Northland Power	A
Parnall, Ryan	Northland Power	A
Qureshy, Sherry	Ontario Power Generation	A
Hropach, Igor	Ontario Power Generation	A
Woodward, Tom	Portlands Energy Centre	A
Nguyen, Thanh	TransAlta	A
Rysdale, David	Vale Sudbury Power Dept.	A
Elridi, Khaled		A
Lindsay, Gary T.		A
Gojmerac, Mark	IESO	A
Romeo, Rick	IESO	A
Satish, Anuradha	IESO	A
D'Costa, Candida	IESO	A
Scribe: Anuradha Satish - Please report any corrections, additions or deletions e-mail to stakeholder.engagement@ieso.ca		

All meeting material is available on the IESO web site at:
<http://www.ieso.ca/Pages/Participate/Stakeholder-Engagement/SE-109.aspx>

Item 1 Welcome, Introduction and Opening Remarks

Rick Romeo welcomed the attendees to the Outage Management Process Redesign Consultation (SE-109) meeting.

Item 2 Project Progress Update

The stakeholders were presented with a status update on the project:

- Market Rules have been recommended for IESO Board approval by the Technical Panel. The Board will review them by the end of August 2015 and if approved, the new market rules will be effective as of Q3 2016.
- The IESO is working on revising Market Manuals as per the new outage management process and Market Rules. Draft versions of the manuals will be stakeholdered for review by November 2015.
- Vendor development and quality assurance testing of the replacement software is progressing as per schedule. IESO is expecting the final version of the software to be delivered in 6 months.
- An early deployment of the new outage management system is being tested at the IESO which has highlighted additional flexibility and limitations in the new system. These were discussed in detail in the next agenda item.

Item 3 Requirements Summary Document Changes

The Requirements Summary Document has been updated to include the following changes:

- It was noted during early deployment system testing that the software provides some additional flexibility to edit the planned start and end dates in the Final Approved and Implemented statuses. Two state transition rules have been added in the Requirements Summary Document (Tables 1 and 2) to reflect this additional flexibility.
- New Purpose Codes have been added to the Requirements Summary Document.

The Segregated Mode of Operation (SMO) Purpose Code, applicable for Planned and Opportunity outages, had been presented to stakeholders previously, but was not

included in the Requirements Summary Document. The document has been updated to include this Purpose Code.

Three new Purpose Codes have been proposed by Hydro One to differentiate specific outage types from the general Planned, Opportunity and Information-type outages. They are intended to offer market participants a more intuitive way to communicate hardware/software changes to assets. These additional Purpose Codes are:

1. Transmission Equipment Derating – applicable for Information outages.
2. Cyber Asset Change – applicable for Planned outages.
3. Relay Setting Change – applicable for Planned outages.

The ‘Priority Codes and Applicable Purpose and Constraint Codes’ section in Appendix H of the Requirements Summary Document has been updated to reflect these changes. All market participants were encouraged to use the additional Purpose Codes.

Item 4 Undesirable Equipment Combinations

Market participants were provided with a recap of the proposed Outage Planning Guidelines, intended to enable market participants avoid scheduling conflicting outages. Rules based on undesirable outage combinations will be embedded into the new system to display conflict warnings to notify market participants.

The IESO had initially proposed to publish public and private reports. Review of the proposal has highlighted confidentiality issues. Information related to certain equipment can only be shared with market participants that own or operate the equipment that form an undesirable combination group. The IESO will assess the impact and administrative burden of managing this information. Alternative approaches could include integrating the information into the software for extraction versus manual or verbal communication to impacted market participants.

Item 4 Proposed Data Migration

The scope of outage data to be migrated from the current Integrated Outage Management System (IOMS) into the new system will include historical data up to three years, current data as well as future data up to ten years. The historical migration is capped at no more than three years to meet regulatory obligations. Future migration is capped at no more than ten years as the majority of outage requests submitted beyond ten years are stored in IOMS as placeholders (i.e. drafts). Market participants will be required to resubmit such outage requests in the new system.

The IESO has been testing the migration of outage requests into the new system and has uncovered several limitations. As a result, the IESO is proposing NOT to migrate the following outage types:

1. Cancelled outages – Cancelled outages are not reused for operational purposes and would reduce the overall migration effort.
2. Outages with equipment profile code = Information – These codes do not map correctly in the new system.
3. Outages with overlapping equipment profile start and end times that differ from the overall outage start and end times – The new system has less flexible timeframe structures as compared to IOMS which will not allow for such outages to be migrated
4. Outages with different equipment profile codes on the same piece of equipment – The new system does not accommodate this feature
5. Revision history – The latest version of historical outages will be available in the new system; older revisions will not be migrated

The IESO will inform participants which of their existing in-progress and future outage requests will not be migrated and market participants will be required to manually resubmit such requests into the new system within a stipulated deadline, in order to retain the original time stamp.

The IESO informed market participants that the volume of outage requests that won't be migrated is less than 3% of the 13-year scope of data migration.

The existing equipment database for outage management will be replaced with the IESO's new online registration database. There are station and equipment nomenclature differences between these databases. Participants who are currently using API accounts to report outages will be required to map their station/equipment names that don't match the new registration database. The IESO will send a list of required changes to the impacted API users in the coming months.

The following are questions that were asked during the presentation by stakeholders along with the IESO's responses (in italics):

A member asked for more clarification on migrating older versions of historical outage requests.

The IESO clarified that the latest version of historical outage requests will be migrated into the new system. Previous versions of the historical outage request will not be available for tracking purposes.

A member asked about the deadline for market participants to resubmit outage requests that are not migrated into the new system.

The IESO responded that participants will be granted a month's time after project closure to resubmit outage requests. The IESO reiterated that the volume of such outage requests is less than 3% of total migrated outages.

A member asked by when the IESO will begin migrating outage data into the new system.

The IESO responded that multiple approaches are being considered. There could be a staged approach where all data is initially migrated into the QA system and perform a true-up at the time of implementation. Alternatively all the data could be directly migrated into the Production system before the project's Go Live date. The strategy will be conveyed to market participants once finalized.

A member asked if there is a timeframe by when the IESO would finalize the data migration strategy.

The IESO responded that market participants would be notified of the strategy in the next SE-109 session in October.

Item 5 Proposed Transition Plan

Market participants were provided with the target Go Live date as September 7, 2016. The project is planning for a direct cutover to the new system without any parallel operation between the old and new systems.

In order to minimize the amount of change requests and to facilitate a smooth cutover, the IESO is proposing:

- No planned outages be submitted between 16:00 EST Sept. 5, 2016 and 16:00 EST Sept. 7, 2016.
- No planned outages be scheduled to start on Sept. 6, 2016 through Sept. 8, 2016
- No planned outages be scheduled to end on Go Live date

The IESO provided participants with an overview of how the daily, weekly and quarterly advance approval processes will be impacted by the Go Live date, including how each new process would be phased in to assess outage requests submitted under the old and new outage management systems. The details of this overview are described in the presentation materials.

The following are questions that were asked during the presentation by stakeholders along with the IESO's responses (in italics):

A member asked if the restrictions on submitting outages during the week of Go Live are applicable for forced outages.

The IESO responded no. These restrictions are for discretionary outage requests only. Non-discretionary forced outages will be accommodated during these timeframes.

Item 6 Next Steps

Mark Gojmerac reviewed next steps which included seeking feedback from stakeholders and IESO's response to stakeholder feedback. The next SE-109 meeting will be held in October.

The meeting then adjourned.