

# OUTAGE MANAGEMENT PROCESS REDESIGN

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May 4, 2016

# Agenda

- Progress Update
- Station and Equipment Name Changes
- Revised Public Reports for Transmission Outages
- New Private Reports for Outage Planning Guidelines
- Control Centers
- Next Steps

# Progress Update

- Vendor Development is complete
  - Factory acceptance testing was successful
  - Internal site integration testing in progress
- Market Manual 7.3 posted for preliminary review
  - Available on the IESO website:  
<http://www.ieso.ca/Pages/Participate/Change-Management/Change-Notification-Listing.aspx>
  - Feedback due **Friday May 6**
  - Send feedback to [pending.changes@ieso.ca](mailto:pending.changes@ieso.ca)

# Progress Update: Implementation Schedule

Milestone	Dates
IESO “Quick Take” on the new outage tools and processes	May 20
Web Client User Guide posted; ‘How To’ quick clips for Web Client features posted	June 30
Market Trial Test Plan posted for comment	July 11
Go Live Training	Aug 2 – Sep 2
Market Trials	Aug 8 - 26
Go Live	Sept 14

# Station and Equipment Names Changes

- The new outage management system will source equipment information from the IESO's registration system (i.e. Online IESO).
- Some of the station and equipment names in the current outage management system differ from those in the registration system.
- Names between the current systems must be aligned in order to seamlessly transition to the new outage management system.

# Station and Equipment Name Changes

- All station names will be capitalized in the current system
- Station and equipment names in the current system will be changed to reflect their registered operational names (where differences exist)
- Market participants will be provided a list of their name changes
- Changes will take effect June 1, 2016

# Station and Equipment Name Changes

- Participants using their own proprietary systems to submit outages must update their systems with the name changes.
- Name changes will be reflected on all historical, in-progress and future outage requests.
- All transmission outage reports published on the IESO website will be updated with the name changes.

# Revised Public Transmission Outage Reports

- In accordance with the market rules, IESO publishes 'public' planned transmission outage reports
- A new outage management system means a slight change to the existing reports:
  - Number and frequency of reports
  - Report labels



# Revised Public Transmission Outage Reports

- 4 reports currently published

Report Name	Coverage	Freq.	# of Reports
IOMS Public Historic Outage Hour	Previous hour	Hourly	1
IOMS Public Planned Outage Day	Day 1 – End of month	Daily	~30 (1 per day in coverage period)
IOMS Public Planned Outage Month	Months 2–6	Daily	5 (1 month each)
IOMS Public Planned Outage Six Months	Months 7 - 24	Daily	4 (6 months each)

# Revised Public Transmission Outage Reports

- Sample of current report

## Planned Transmission Outages

Outages occurring between Dec 01, 2017 00:00 and May 31, 2018 23:59  
Created at Apr 26, 2016 17:15:50

Outage ID:							Approval: Advance Approval Status				
Equipment Group							Final Approval Status				
Actual Start Date Time	Actual End Date Time	Daily/Cont.	Weekend	Station	Equipment Name	Voltage Level	Equip. Type	Event	Equip. Status	Recall Time	
Outage ID: 4108501							Approval:		Approved		
Disconnect Switch									Approved		
2006-04-25 12:45	2020-12-31 23:59	C	NA	Middleport TS	25-Q26M	230	Dis	FE	O/S	No Recall	
Outage ID: 4108511							Approval:		Approved		
Disconnect Switch									Approved		
2006-04-25 12:45	2020-12-31 23:59	C	NA	Middleport TS	25-Q35M	230	Dis	FE	O/S	No Recall	
Outage ID: 9833055							Approval:		Approved		
									Approved		

# Revised Public Transmission Outage Reports

- 5 reports once the new system is in-service:

Report Name	Coverage	Freq.	# of Reports
All Transmission Outages Occurring Today	Day 0	Hourly	1
Planned Transmission Outages Occurring Next 30 Days	Day 0 – Day 30	Daily	1
Planned Transmission Outages Occurring Next 2 to 3 Months	Day 31 – Day 90	Daily	1
Planned Transmission Outages Occurring Next 4 to 6 Months	Day 91 – Day 180	Daily	1
Planned Transmission Outages Occurring Next 7 to 24 Months	Day 180 – Day 730	Daily	1

# Revised Public Transmission Outage Reports

- Mock-up of New Report:

Outage ID	Planned Start	Planned End	Priority	Recurrence	Equipment Requested				Recall Time	Status
					Name	Type	Voltage	Constraint		
1-00000571	2016/02/03 16:00	2016/02/04 16:00	O	C	Ansonville TS H1L81	Breaker	230 kV	OOS	2 Hours	SUB
1-00000572	2016/02/04 8:00	2016/02/10 18:00	P	RE	B560V Bruce x Claireville	Line Section	500 kV	OOS	1 Hour	AA
					Bruce 1-B560V	Disconnect Switch	500 kV	OOS		
					Claireville 3-B560V	Disconnect Switch	500 kV	OOS		
1-00000573	2016/02/03 16:00	2016/02/04 16:00	P	C	Trafalgar TS T15	Transformer	500 kV	OOS	15 Min	IMPL

- Label changes and values from current report:
  - Priority (Planned, Opportunity etc.)
  - Recurrence (Continuous, Return Evenings etc.)
  - Constraint (Out of Service, Protection Out of Service etc.)
  - Status (Submitted, Adv. Approved, Implemented etc.)

# New Private Reports for Outage Planning Guidelines

- Issued by the IESO to assist market participants in avoiding scheduling conflicting outages
- Guideline incorporated into conflicting checking feature of the new outage management system
- Guidelines were distributed to impacted participants and approved last year
- Guidelines can evolve over time

# New Private Reports for Outage Planning Guidelines

- A separate report will be generated per Market Participant, based on whether the Market Participant owns or operates equipment listed in the transmission groups
- Will be made available as a Private Report on the **IESO Report Site**
- Reports will be reissued on a quarterly basis, in alignment with IESO Baseline

# New Private Reports for Outage Planning Guidelines

- Sample:



## Outage Planning Guideline Report

[Help](#)

Created at: Dec 23, 2015 11:35:12 a.m.  
For: Hydro One

Transmission Grouping	Transmission element	Threshold	Reason	Distribution
Sample Group 1	Equipment 1 Equipment 2	1	Transient Stability, post-contingency voltage collapse	Market Participant
Sample Group 2 - Spring + Fall	Equipment 2 Equipment 3 Equipment 4	2	Thermals	Market Participant
Sample Group 3 - Summer + Winter	Equipment 5 Equipment 6 Equipment 7	1	Thermals	Market Participant

# Control Centers

- A control center typically represents a location from which equipment can be remotely operated.
  - e.g. Ontario Grid Control Centre
  - e.g. North East Control Centre
- Control centers may contain equipment whose outages must be requested for IESO approval. For example:
  - Monitoring and control systems
  - Dispatch workstations
  - Other examples available in Market Manual 7.3



# Control Centres (con't)

- Control centres will be modelled as 'stations' within the new outage application
- Organizations with a single location should not need this
- Please send an email [customer.relations@ieso.ca](mailto:customer.relations@ieso.ca) if you would like a Control Center made for your organization

# Next Steps

- Review and incorporate stakeholder feedback on Market Manual 7.3
- Quick Take Posted May 20
- IOMS Name Changes June 1
- Market Trial Test Plan and Training
  - Reminder to register