

# Outage Management Redesign (SE-109) Redesign Proposal



The IESO considered the following factors in developing a redesigned outage management process proposal:

- SE-109 Discussion Paper (redesign objectives and design principles)
- Outage management practices within other Independent System Operators (ISOs)
- SE-109 stakeholder feedback (discussion paper and survey of outage practices)

For more information on the factors outlined above, please see SE-109 stakeholder engagement page on the IESO website ([http://ieso.ca/imoweb/consult/consult\\_se109.asp](http://ieso.ca/imoweb/consult/consult_se109.asp)).

The proposal illustrated on the following pages currently serves as a redesign for the existing near-term (1 – 33 day) process used today. The relationship to and/or impact on the 18 Month Outlook process is within scope of this consultation but requires further analysis. It should be noted that any proposals to change the scope of the 18 Month Outlook may require a separate consultation in addition to this SE-109. This is primarily due to the larger stakeholder audience the 18 Month Outlook currently serves.

The process design covers two timeframes that support the annual and weekly planning horizons identified by stakeholders. The *Mid-Term Coordination & Approval* process addresses annual outage planning activities while the *Near-Term Coordination & Approval* process addresses both annual and weekly planning activities. The timelines associated with each process are driven by stakeholder feedback and IESO reliability needs.

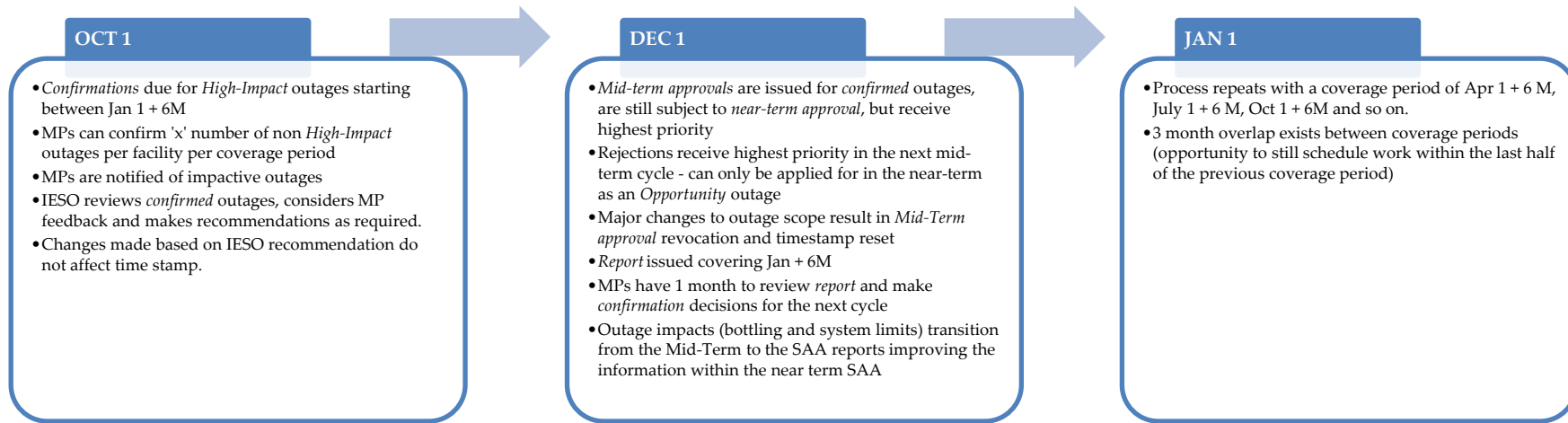
Development of a new process has introduced some new process terms and criteria. The glossary on the next page defines a set of terms that are used in the redesigned proposal. Process criteria are illustrated using charts and calendars that follow the glossary of terms. New terms are presented in alphabetical order within the glossary and are italicized in the accompanying chart and calendar illustrations.

The final page of this document outlines how the proposed redesign meets the design principles.

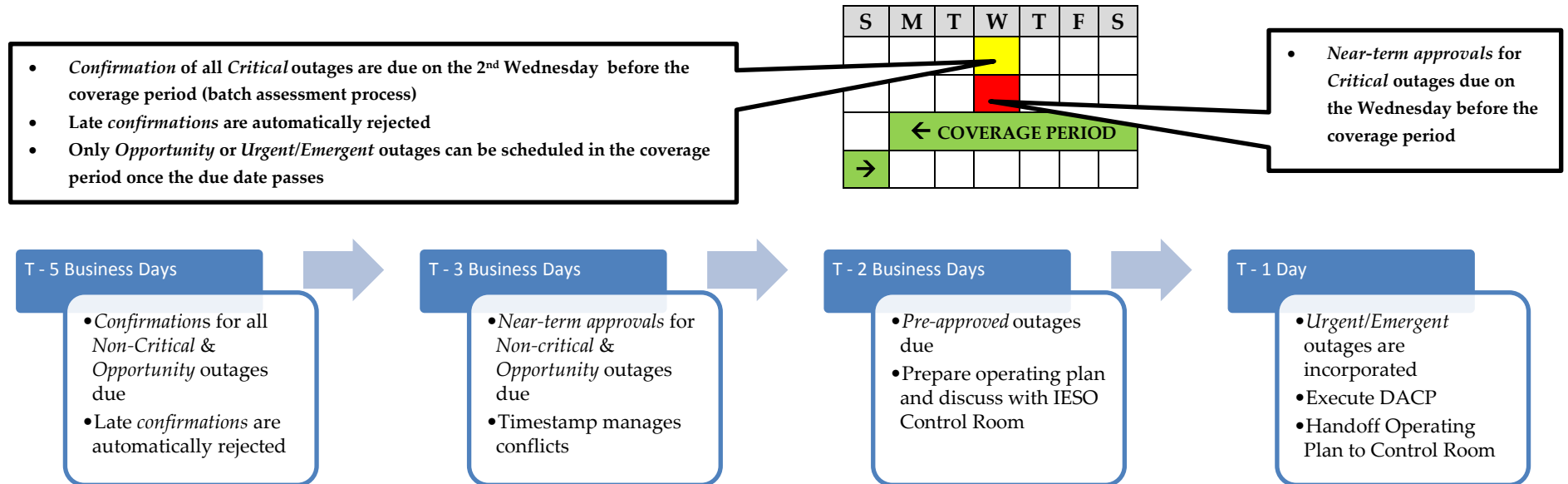
## Glossary of Terms

Term	Definition & Potential Example
Confirmation	Indicates the outage can proceed as planned and requests the IESO assess for advance-approval within the mid or near term processes.
Critical Outage	Transmission elements defined within IESO system control orders (SCOs). SCOs define transmission and generation elements whose outages have an adverse impact on system stability limits within the IESO-controlled-grid (ICG). 'Critical' may be redefined based on stakeholder feedback and IESO feasibility analysis.
High-Impact	To be defined based on stakeholder feedback and a volume of outages the IESO can reliably assess with existing resources (i.e. outages with a duration of $\geq 5$ days)
Mid-term approval	IESO approval for outages confirmed in the mid-term process. Must still receive near-term approval to proceed but provides higher priority than time-stamp in the near-term process. Cannot be used for compensation purposes in the event of a subsequent rejection.
Near-term approval	IESO approval for outages confirmed in the near-term process. Can be used for compensation purposes in the event of a subsequent revocation or recall.
Non-critical outage	Outage requests that do not meet the Critical and Pre-approved outage criteria
Opportunity Outage	Outage request that has either been rejected or is late for submission but has been given an unexpected opportunity to accomplish work that would have otherwise been unable to proceed due to system reliability concerns. To be refined following stakeholder feedback and review of application in other ISOs.
Pre-approved Outage	An outage with little to no impact on system reliability that may also be limited in duration and/or have a recall time of less than 15 minutes. To be refined based on stakeholder feedback and IESO feasibility analysis.
Report	Adequacy & security assessments produced from the results of the mid-term coordination and approval process. Further analysis required to determine whether to use 18 Month Outlook or newly created reporting vehicle(s).
Urgent/Emergent Outage	An outage request that cannot respect the submission requirements due risk of damage, public safety, or legal issues etc.

## MID-TERM COORDINATION & APPROVAL



## NEAR-TERM COORDINATION & ADVANCE APPROVAL



### Outage Priority Sequence:

Urgent/Emergent → Mid-Term Approval → Timestamp (including near-term Approvals) → Opportunity → Pre-Approval

## How the Process Redesign Meets the Design Principles

Design Principle	Meets?	How
1. Framework designs will incent market participants to plan and commit outages further in advance.	YES	<ul style="list-style-type: none"> <li>• Formal coordination service provided in the mid-term process reducing outage conflicts in the near term.</li> <li>• Approvals in the mid-term process provide higher priority in the near-term process.</li> </ul>
2. Framework designs will provide better opportunities for market participants to coordinate their outages and avoid conflicts further in advance.	YES	<ul style="list-style-type: none"> <li>• Participants are notified of outages that may impact their resources</li> <li>• IESO reviews outages confirmed in the mid-term process and provides alternate recommendations as required</li> <li>• Overlapping mid-term coverage periods allows opportunity for resubmission</li> </ul>
3. Framework designs will give market participants outage scheduling flexibility in a non-discriminatory manner.	YES	<ul style="list-style-type: none"> <li>• Overlapping mid-term coverage periods allows opportunity for resubmission</li> <li>• Multiple outage submission windows in near-term based on level of impact</li> <li>• Introduction of pre-approval process for low impact outages</li> </ul>
4. Framework designs will allow sufficient time for the IESO to conduct outage assessments once outages are committed by market participants.	YES	<ul style="list-style-type: none"> <li>• Time to assess is linked to level of impact as per the submission timelines within the near-term process.</li> </ul>
5. Short notice outage requests must satisfy emergent or immediate ICG benefit criteria in order to be assessed.	YES	<ul style="list-style-type: none"> <li>• Outages that do not meet submission criteria are auto-rejected unless they are classified as Urgent/Emergency and in some cases Opportunity.</li> </ul>
6. Framework designs will continue to address outage conflict resolution and cost recovery mechanisms for outages recalled or revoked by the IESO.	YES	<ul style="list-style-type: none"> <li>• Conflict resolution addressed with new priority sequence: Urgent/Emergent → Mid-Term Approval → Timestamp (including near-term approvals) → Opportunity → Pre-Approval</li> <li>• Cost recovery mechanisms are still under review</li> </ul>