

Securing 100+kV Transmission Facilities in the Market Model

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Agenda

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- 100+kV Timeline Update
- Timeline

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100+kV Timeline Update

List of Facilities

- The facilities list and a timeline update are posted to the February 21, 2018 meeting materials*
 - The purpose of today's presentation is to review the timeline update.
- Mitigation rules are still under development and may delay the securing of one or more facilities in the market models by the targeted deadline.
- There are several groups of facilities on the facilities list:
 - Niagara Modeling Enhancements
 - Not Proposed at this Time
 - Breaker Modeling Enhancements
 - Already Secured in the Market Models

*Link to the most recent Facilities List: http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_miwg/meeting_materials/2018-02-21/v2List%20of%20Facilities%20-%20100+kV%20FINAL.PDF

Link to the timeline update: http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_miwg/meeting_materials/2018-02-21/Timeline%20Update%20-%20100+kV%20FINAL.PDF

Mitigation Rule Enhancements

- The NYISO continues to perform analysis to determine what, if any, rule revisions will be necessary to secure the identified 100+kV facilities in the market model.
- The need for mitigation rule revisions could delay the targeted dates for modeling the initial set of facilities as secured within the market models.
- The NYISO will present proposed mitigation rules at stakeholder meetings in June 2018.

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Niagara Modeling Enhancements

- Facilities impacted by the Niagara modeling updates are currently targeted to be secured in the energy markets by December 31, 2018 after the modeling updates are completed.
- The NYISO will provide a progress update by August 7, 2018, and note whether facilities dependent upon the Niagara modeling enhancements will be modeled as secured:
 - In the energy market by December 31, 2018.
 - In the Autumn 2018 Centralized TCC auction from an appropriate start date.

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Facilities Not Proposed at this Time

- **For facilities “Not Proposed to Add at this Time,” network topology solutions, such as load switching and line sectionalization, cannot currently be modeled in the market software.**
 - The most operationally conservative configuration of these facilities would be used if they were secured in the market software, leading to flows that would, at times, be overly restrictive.
- **Software upgrades for this solution would require a prioritized project effort to implement.**
 - Would require the use of an outside vendor.
 - Implementation would be after the EMS/BMS Upgrade project.
 - The NYISO feels that software upgrades to accommodate only four facilities on the facilities list currently secured by network topology solutions would not be worthwhile in the near term.
 - If there is stakeholder interest in a project to allow the NYISO to efficiently secure facilities that require network topology solutions, then such a project would be considered for prioritization after 2019.

Breaker Modeling Enhancements

- **The modeling of some facilities is impacted by breakers that are modeled as normally open.**
 - A topology change is needed to split the bus in these instances.
 - The NYISO will maintain consistency between the Energy market and the TCC market when modeling these facilities.
 - The NYISO will confirm for MPs no later than August 7, 2018, if the NYISO will secure these facilities in the Energy Market starting in November 2018 and in the Autumn 2018 Centralized TCC auction from an appropriate start date.

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Already Secured in the Market Models

- **Four facilities were modeled as secured in the spring 2018 TCC market auction.**
 - These same facilities are currently secured in the energy market model.
 - 3/4 Browns Falls-Taylorville
 - 5/6 Taylorville-Boonville

Outage Scheduling Manual Attachment A

- The NYISO will update Outage Scheduling Manual Attachment A to indicate whether or not a facility is secured in the market model.
- No other update will be provided.
 - Binding constraints associated with secured facilities will appear in the Limiting Constraints posting for RT and the Day-Ahead Limiting Constraints posting for DA.*

*Link to the Limiting Constraints postings:

http://www.nyiso.com/public/markets_operations/market_data/power_grid_data/index.jsp

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Timeline

Timeline

- **June/ July/ August 2018**
 - Present proposed mitigation measures to stakeholders
 - Present draft tariff language to stakeholders
- **August 7, 2018**
 - Provide update confirming the facilities that will be secured starting November 2018 in the Autumn TCC market auction and the NYISO energy market.
 - Inform stakeholders of progress on the Niagara modeling updates and provide an update on the timeline to secure facilities in the market model that are dependent on these updates.
- **September 12, 2018**
 - BIC vote to approve the market design and tariff language for “Securing 100+kV Transmission Facilities in the Market Model.”
- **September 26, 2018**
 - MC vote to approve the market design and tariff language for “Securing 100+kV Transmission Facilities in the Market Model.”
- **By November 10, 2018***
 - Targeting to begin securing four facilities identified for November 2018 in the energy market models.
- **By December 31, 2018****
 - Targeting to being securing eighteen facilities identified for December 2018 in the energy market models.

*Mitigation rule revisions under development may delay securing one or more of these facilities in the market models by the targeted deadline.

**Niagara modeling enhancements under development may delay securing these facilities in the market models by the targeted deadline.

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- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



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