EXTERNAL CONTROLLABLE LINES

Presented to S&PWG

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Business Overview

The External Controllable lines project identifies the need for multiple External Proxy Buses in a single Control Area. The following existing lines may be considered:

- **Cross Sound Cable (CSC) – DC Line**
- **Northport 1385 – Phase Shifter**
- **HQ Cedars Hydro - Generator**
- **Plattsburgh PV20 – Phase Shifter**
- **St. Lawrence L33P/L34P – Phase Shifters**
- **Ramapo 5018 – Phase Shifter**

This project is generic in nature to accommodate for existing line differences, however as each line is considered, a detailed Systems Design Specification document will be developed.

Business Overview (continued)

Software will be designed or modified to provide the following:

- **Model an additional Controllable Line (external proxy bus).**
- **Give MPs the ability to bid to or from the new proxy bus in the DAM.**
- **Give MPs the ability to schedule transactions in real-time.**
- **Give NYISO Operators the ability to monitor the Controllable Line and curtail transactions on the line.**
- **May optionally validate Transmission Reservations.**

Externally, the users of this product will be MPs who wish to bid transactions on the Proxy Bus. The desire is for MPs to be able to submit bids with as little deviation from current procedure as possible.

External Control Areas will require that schedules approved by them can be passed to the NYISO with minimal effort, they will also require that information be transferred between ISOs accurately, completely and timely.

Scheduling

- External Controllable lines will follow the same scheduling protocol as our existing External Proxy Buses.
- However, depending on the specific facility (CSC as an example), additional requirements, such as procuring an Advanced Transmission Reservation, may also be necessary. External Control Areas or Transmission Providers will post transactions they have approved for transmission service to/from their OASIS.
- MPs submitting external transaction requests in the DAM will, where applicable, be required to have a transmission reservation on the controllable line and submit their bid to the NYISO, prior to the Unit Commitment Evaluation at 5 am.
- MPs submitting external transaction requests in the Real Time Market will, where applicable, be required to have a transmission reservation and have the bid submitted to the NYISO 75 minutes prior to the schedule hour.

Ramp Limits

Ramp will be limited by constraints or limitations imposed by the two interconnected systems. In determining realistic ramp rates, the following needs to be considered:

- Maximum ramp limits, both normal and emergency, will need to be determined.
- Ramp limits will be the same for flows into NY and flows out of NY.
- Each External Proxy Bus will have its own ramp limits.
- The current NYCA total ramp limit is 70 MW/min. or 700 MWs over ten minutes. This will be a constraint on schedule changes on the new line.
- Conditions internal to NYCA may limit the ramp.
- Procedures for notifying affected parties will need to be developed for system conditions, either in NY or the external area, that warrant limiting the available ramp.

MMP Responsibilities

Addition of an External Proxy Bus must adhere to existing flows/postings/ processes associated with current external controllable lines;

- **Non-Competitive Proxy Bus: There is the possibility that the NYISO could deem the proxy as a non-competitive proxy bus. If so, the proxy will be flagged as a non-competitive bus.**
- **Extraordinary Corrective Action ECA- a: A penalty construct, to ensure that all transactions are valid, or that any transaction failures are not due to Market Participant actions.**
- **Extraordinary Corrective Action ECA- b: Addresses inconsistencies between the constraints modeled by the hourly Market and the real time price. The ECA-b settlement rule forces consistency between the prices at which external transactions are scheduled and the prices used for settlement.**
- **ICAP Import Rights associated with a new line.**
- **Transmission Congestion Contracts.**

Deployment Schedule

Deployment of this project will be dependent on the successful deployment of the Standard Market Design (SMD2) project.

Projected Target of Pre-summer 2005

- **Cross Sound Cable (CSC)**
- **HQ Cedars Hydro**

Future TBD

- **Northport 1385**
- **Plattsburgh PV20**
- **St. Lawrence L33P/L34P**
- **Ramapo 5018**