Mathematic Algorithms for the Calculation of ATC for Non-PTF Facilities of the NU Companies under Schedule 21-NU

Firm ATC = (TTC – CBM – TRM – Firm ETC)

Non-Firm ATC = (TTC – CBM – TRM – Firm and Non-Firm ETC)

Calculations for ATC for Planning, Operating, and Scheduling Horizons are the same. NU calculates ATC using a contract path methodology.

The above calculations are performed by the NU Companies for its non-PTF internal interfaces. This calculation is consistent with the ISO calculation for Available Transfer Capability. TRM and CBM for the NU Companies' non-PTF posted paths are zero. The purpose of the ETC component of the ATC equation is for the Transmission Provider to define all elements that are reducing the amount of ATC available to the market participant.

Mathematic Algorithms for the Calculation of ATC for the HVDC Phase I/II Transmission Facilities for the NU Companies under Schedule 20A-NU

Planning Horizon Firm ATC = TTC–TRM –CBM –Firm ETC

Planning Horizon Non-Firm ATC = TTC – CBM– Firm and Non-Firm ETCs

Operating Horizon Short Term Non-Firm: Non-Firm ATC = TTC –CBM + unused CBM– Firm and Non-Firm ETCs + unscheduled Firm ETCs.

With regard to the calculation of the calculation of ATC and its components for the HVDC Phase I/II Transmission Facilities for the NU Companies:

- NU calculates the ATCs for Phase I/II using a contract path methodology,
- NU calculates the ETCs Phase I/II, and
- ISO-NE calculates TTCs, TRMs and CBMs for Phase I/II

  The CBM for the HVDC Phase I/II Transmission Facilities is zero. Phase I/II HVDC-TF Import TRM = TTC – 1200 MW. Phase I/II HVDC-TF Export TRM = TTC – 500 MW.