2010 IRM Study
List of Sensitivity Cases

Selected Cases from 2009 Study

Sensitivities are generally performed by starting at 17.85%/79.6%/105.0% (numbers tentative at this point), making a change to the base case mif, and then adding/removing capacity in all zones until 0.1 LOLE is achieved. Exceptions are indicated below.

1. **No internal transmission constraints**
   This is accomplished by setting all internal NYCA tie ratings to 99,999 MW. Need to change any grouping limitations, too.
2. **NYCA isolated**
   This is accomplished by setting all border ties ratings to zero (including RECO tie) . Allow UDRs by cutting tie to external CA outside of NYCA
3. **No load forecast uncertainty (change to read no NYCA LFU)**
   Change summer load levels all to 1.000 in NYCA (lod-uncy)
4. **No wind***
   Change all wind in service dates beyond 2010. Remove adjustments from spreadsheet
5. **No SCRs and EDRPs**
   Remove SCRs and EDRPs from EOP-DATA table. Remove from spreadsheet, as well.
6. **Higher Outside Area reserve margins (RMs improved by 5 percentage points)**
   Lower the external control areas peak loads, proportional to existing modeled load, until the reserve margin is 5% higher that it was at the start.
7. **Lower Outside Area reserve margins (RMs lowered by 5 percentage points)**
   Raise the external control areas peak loads, proportional to existing modeled load, until the reserve margin is 5% lower than it was at the start.
8. **Higher EFORds**
   Find the equivalent MW of raising the NYC 5 years EFORd to its highest level over the last 5 years (occurs in 2008). Do the same for Long Island (also in 2008) and the state (occurs in 2007). Add these MWs to a MOD-MDMW table, but do not add them to the spreadsheet.
9. **Lower EFORds**
   Find the equivalent MW of lowering the NYC 5 years EFORd to its lowest level over the last 5 years (occurs in 2006). Do the same for Long Island (occurs in 2005) and the state (occurs in 2006). Remove these MWs in a MOD-MDMW table, but do not remove them from the spreadsheet.

* Freeze J and K at base case levels and only add/remove capacity to upstate zones.

Additional Cases (some are shown in 2010 Assumptions Matrix)

1. **Higher peak load than in base case**
   Use the 2009 Gold Book peak forecast for 2010 without energy conservation measures. This results in a NYC peak of 12,059 MW, a LI peak of 5,521 MW and a statewide peak of 33,767 MW.
2. **Environmental – NO$_x$ reg implementation impacts**
   Not defined
3. **External capacity purchases (Non-UDRs) – actual contracts instead of base case equivalent (does not include internal tie effects)**
   Reset Quebec and PJM ties to their full value. Add a contract over Chateaquay of 1090 MW. Add contracts from PJM to zones A and C totaling 1080 MW.
4. **No external capacity purchases – grandfathered purchase not represented**
   Reset all external ties to their full rating.
5. **External capacity sales – assume actual contracts**
   Two assumptions -1) same treatment as ext purchases, ie, no impact on internal ties and 2) just study the NE sales as the NYPA Federal Power contracts muddy the water of what we are after. So, restore the ties from F and G to NE. Do not put the Erie Blvd hydro units back in. Instead, create two contracts, one from F and one from G, to NE at 315 MW each.
6. **HQ energy wheel through NY to NE – remove Chateaguay and Cedars ties (instead of representing 1090 MW purchase).**
   Set the Chateaquay and Cedars ties to 0 MW.
7. **Alternate zonal capacity shift assumption for implementation of Unified Methodology****
   Remove capacity from zones: A, C, D, F, G, and H to arrive at the study point. Shifting would occur as previously done.
8. **Increase Con Edison Energy Efficiency Program (reduce Zone J peak load) by 200 MW**
   Use load forecast based on best estimate of energy savings.
9. **Outage of Indian Point**
   In MNT_UNOP table, model the unit on outages from Jan 1 through Dec 31.

** A full curve will be done for this case.

Approved by NYSRC Executive Committee - 10/9/09
Note that the descriptions following each item have been added to this document, after the EC approval, and are Draft for ICS discussion purposes