

***Application for the Loss of
Generator Gas Supply
- New York City***

**Operating Committee Meeting
May 18, 2017**

The Study

- Con Edison conducted a study to verify the requirements of the application for the Summer 2017 capability period.
- The study was conducted using the NYISO's Operating Case and Siemens's Power System Simulation for Engineers (PSS/E).
- The study and its findings will be presented to the NYISO for review and approval.

The Study Results

- The results of this year's Minimum Oil Burn study is very similar to the 2016 study. The requirements are as follows:
 - **At NYISO forecasted "NYC - Zone J" load above 7,420 MW (equivalent Con Edison forecasted electric system loads above 8,500 MW) during the Summer Capability Period, "automatic fuel swapping capability/minimum oil burn" is required in Astoria Energy II or NYPA CC1/CC2 or one of the Astoria 138 kV Steam generating facility (Astoria 3 or 5).**
 - **At NYISO forecasted "NYC - Zone J" load above 7,850 MW (equivalent Con Edison forecasted electric system loads above 9,000 MW) during the Summer Capability Period, "automatic fuel swapping capability/minimum oil burn" is required in Astoria Energy II and in NYPA CC1/CC2 or one of the Astoria 138 kV Steam generating facility (Astoria 3 or 5).**

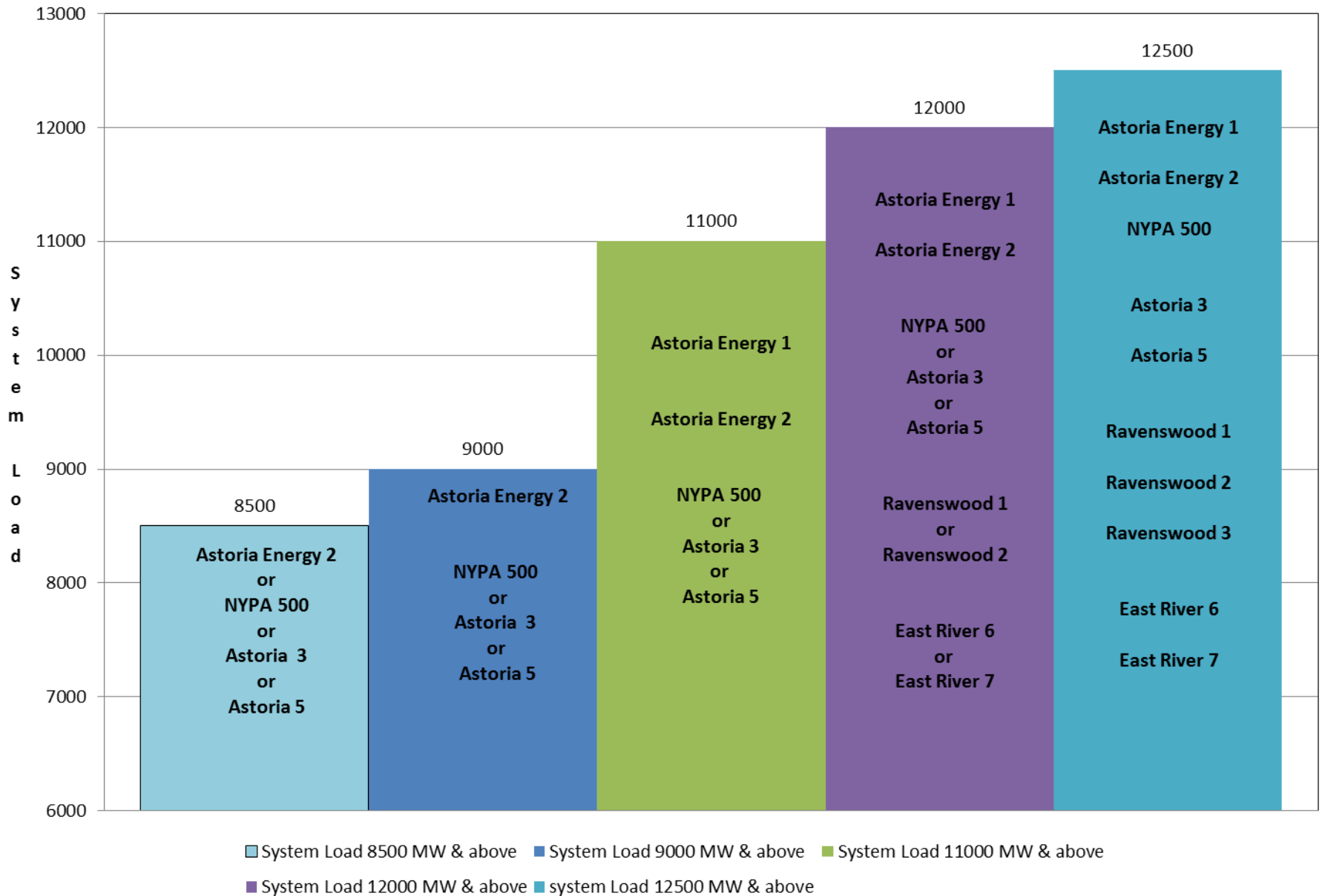
The Study Results (Continued)

- **At NYISO forecasted "NYC - Zone J" load above 9,600 MW (equivalent Con Edison forecasted electric system loads above 11,000 MW) during the Summer Capability Period, along with the designated plants stated at the previous load level, “automatic fuel swapping capability” is required in Astoria Energy I.**
- **At NYISO forecasted "NYC - Zone J" load above 10,450 MW (Con Edison forecasted electric system loads above 12,000 MW) during the Summer Capability Period, along with the designated plants stated at the previous load level, one Ravenswood generating facility (either Ravenswood 1 or 2) must be on “minimum oil burn”, and one East River generating facility, either ER 6 or 7, must be on “minimum oil burn”.**

The Study Results (Continued)

- **At NYISO forecasted "NYC - Zone J" load above 10,900 MW (Con Edison forecasted electric system loads above 12,500 MW) during the Summer Capability Period, all dispatched dual fuel units must be on "automatic fuel swapping capability/minimum oil burn" (Ravenswood 1, 2 & 3, Astoria 3 & 5, Astoria Energy I & II, East River 6 & 7 and NYPA CC1/CC2).**

Con Edison Min. Oil Burn Requirements for Summer Peak Loads



The Study Results (Continued)

- **Con Edison retains the right to modify daily minimum-oil / automatic fuel swapping requirements in order to meet NYSRC MOB Reliability Rule I-R3, based on electric grid configurations, generator dispatch, and other system conditions not identified in the seasonal study but which could result in a loss of load due to the loss of a single gas facility. When invoking a daily commitment using minimum-oil / auto fuel swap procedures for this reason, Con Ed shall seek concurrence of the NYISO.**

The Study Conclusion

- The number of generators required to be on minimum oil burn due to expected electric dispatch conditions is expected to stay the same for Summer 2017 as it was during Summer 2016. Application No. 69 will reflect these results.

Our Recommendation

Con Edison recommends that a revision to Application No. 69 that reflects these updated summer capability period requirements be accepted and submitted to the Operating Committee for implementation.