

SIS Summary for Request #807208, 807215, 856700, and 856710

This system impact study assumes that the existing 320 MW of generation at Port Washington will be removed from the system. Models used in this study correlated with the years 2004 and 2007. The results for all other years were estimated from results of the existing models. The results of the System Impact Study (SIS) for request #s 807208 and 856700, for 500 MW and 100 MW, respectively, from the Port Washington Power Station to the WEC control area beginning in 2005 and ending in 2024 are as follows:

2004: 573 MW of ATC is available from the Port Washington Power Station to the WEC control area. The limiting element for this transfer is the Cornell-Rangeline 138kv line (with a rating of 134 MVA) for loss of the Granville 345-138kv transformer in the CBM case. The distribution factor for this contingency is 0.13709.

2005: 594 MW of ATC is available from the Port Washington Power Station WEC control area. The ATC was estimated from the results of the 2004 and 2007 cases.

2006: 615 MW of ATC is available from the Port Washington Power Station to the WEC control area. The ATC was estimated from the results of the 2004 and 2007 cases.

2007: 637 MW of ATC is available from the Port Washington Power Station to the WEC control area. The limiting element for this transfer is the Port Washington-Saukville (bus # 39445 to 39955) 138kv line (with a rating of 193 MVA) for loss of the other Port Washington-Saukville 138kv line (from bus # 39444 to 39482). The distribution factor for this contingency is 0.33531.

2008 through 2024: The ATC was estimated from the results of the 2004 and 2007 cases using the most severe contingency trend. The ATC available from the Port Washington Power Station to the WEC control area for the years 2008 through 2024 are summarized in the following table.

2008	2009	2010	2011	2012	2013	2014	2015	2016
636	635	634	633	632	631	619	608	597

2017	2018	2019	2020	2021	2022	2023	2024
585	574	563	551	540	529	517	506

Summary for the Requests: Transmission service can be granted for request #807208 in the amount of 500 MW from the Port Washington Power Station to the WEC control area from 2005 through 2024 under the provision that the existing 320 MW of generation at Port Washington is retired. Full transmission service cannot be granted for request #856700 in the amount of 100 MW from the Port Washington Power Station to the WEC control area from 2005 through 2024 without improvements to the transmission system. Partial transmission

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service can be granted in the amounts listed in the above table less 500 MW for request # 807208.

Transmission service request #s 807215 and 856710, in the amounts of 500 MW and 100 MW, respectively, from the Port Washington Power Station to the WEC control area from 2008 through 2027 likewise cannot be granted without improvements to the transmission system.

A facilities study will be offered to determine what facilities are needed in order to grant the full requested service. A contract to perform the facilities study will be sent for your approval and signature in the near future.