

External ICAP Rights for the 2015
through 2016 Capability Year
(Prior to Deliverability Testing)

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Objective

- ◆ **To determine the amounts of import capacity allowed (Sec 4.9.6, ICAP Manual)**
- ◆ **MARS simulations were performed on the LCR MARS database to determine the sum of the individual capacity import contributions without violating the LOLE criterion**

Ties Excluded

- ◆ **Interface facilities having UDRs**
- ◆ **Controllable lines from PJM into NY**
- ◆ **The NUSCO 1385 (NNC) line**
- ◆ **Note: Ontario ties were considered for one of the two studied cases**

Methodology

- ◆ **Initial MARS Database: 2015-2016 IRM database as updated for the LCR study**
- ◆ **Model Grandfathered imports consistent with the IRM study**
- ◆ **Determine the maximum imports for each Control Area individually by increasing imports on the Area's ties until the LOLE criterion is met.**

Methodology - Continued

- ◆ **Perform simultaneous runs by increasing the ICAP imports based on the individual limits (beyond the grandfathered imports) until the LOLE criterion is met.**
- ◆ **These ICAP imports, when added to the GF imports, equal the total simultaneous import limits.**

Methodology Changes

- ◆ **Previous year's methodology included, as a last step, retesting values that were increased to known participating Control Areas (CAs) while being reduced from non-participating CAs.**
 - *This step has been dropped due to participation from all Areas*
- ◆ **The methodology performed for three CAs was also used for four CAs participating in capacity imports.**

Calculations

Considering 3 Control Areas' Participation

	PJM	ISO-NE	Quebec	Row Totals
Initial Values (TTC Summer Ratings)	1450	1400	1500	4350
Grandfathered Rights*	1080	0	1090	2170
Individual Limits (above GF)	195	800	25	1020
Simultaneous Limits (above GF)	109	447	14	570
Final Values	<u>1189</u>	<u>447</u>	<u>1104</u>	<u>2740</u>
* Includes ETCNL for these purposes				

Calculations

Considering 4 Control Areas' Participation

	PJM	ISO-NE	Quebec	Ontario	Row Totals
Initial TTC Values (Summer Ratings)	1450	1400	1500	2000	6350
Grandfathered Rights*	1080	0	1090	0	2170
Individual Limits (above GF)	195	800	25	550	1570
Simultaneous Limits (above GF)	71	293	9	202	575
Final Values	<u>1151</u>	<u>293</u>	<u>1099</u>	<u>202</u>	<u>2745</u>
* Includes ETCNL for these purposes					

Comparison of last year's values and this year's values

	PJM	ISO-NE	Quebec	Ontario	Row Totals
Last Year	1080	300	1110	N/A	2490
Without Ontario	1189	447	1104	N/A	2740
With Ontario	1151	293	1099	202	2745

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