Answers to ICS Methodology Questions Concerning the New Capacity Zone

Runs performed with starting case of 17.1% IRM and LCRs of 83.7%(NYC) and 102.0% (LI)

Q1: Run G-J analysis with the most recent IRM base case.

A1: If the superzone G-J is to be considered with the final base case of IRM=17.1%, the minimum LCR value for superzone G-J would be 90.31%.

Q2: What would the values be if the superzone was G-K?

A2: If the superzone G-K is to be considered with the final base case of IRM=17.1%, the minimum LCR value for superzone G-K would be 93.20%.

Q3: Provide the LOLE for all areas for the base case and each altered case in the NYISO runs.

A3: All cases are altered upon the final base case of IRM=17.1%.

	Base Case	G-J nested	G-K nested	GHI/J/K ratio
LOLE (NYCA)	0.100	0.100	0.100	0.100
LOLE (A)	0	0	0	0
LOLE (B)	0.047	0.046	0.046	0.046
LOLE (C)	0	0	0	0
LOLE (D)	0	0	0	0
LOLE (E)	0.026	0.026	0.026	0.026
LOLE (F)	0	0	0	0
LOLE (G)	0.012	0.015	0.017	0.019
LOLE (H)	0	0	0	0
LOLE (I)	0.086	0.086	0.088	0.087
LOLE (J)	0.092	0.091	0.094	0.093
LOLE (K)	0.057	0.057	0.045	0.045

Q4: Does shifting capacity from G-I to J change the LOLE?

A4: NYCA LOLE is not sensitive to shifting capacity from G-I to J, and shifting capacity from G-I to J only has very limited influence on the NYCA LOLE. For example, with the final base case of IRM=17.1%, this shift of (1) 250 MW ~~cannot~~ does not change NYCA LOLE from 0.100, (2) 300 MW can only change NYCA LOLE to 0.099, and (3) 1000 MW can only change NYCA LOLE to 0.098.

Q5: What would the minimum values for G-I be if both J and K remain at their 'as found' margins?

A5: With the final base case of IRM=17.1%, the minimum LCR value for G-I zone would be 83.65% if both J and K remain at their 'as found' margins.

Q6: What are the above minimum G-I values for both the G-J and G-K nested zones?

A6: The G-I minimum keeping J and K 'as found' is given in the previous question (83.65%).

Q7: What are the numbers from a 3 zone (J, K, G-I) LCR-IRM curve.

A7: We are working on creating these curves and should have values by the end of February.

Q8: To ensure that this methodology will work in general, please apply this to other base cases.

A. We are working on repeating the process on several past base cases and should have values by the end of February.