BUYER SIDE MITIGATION ICAP FORECAST - CLASS YEAR 2017-2 ASSUMPTIONS & REFERENCES

NEW YORK INDEPENDENT SYSTEM OPERATOR

MARKET MITIGATION AND ANALYSIS

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1. Introduction

This document describes assumptions and identifies the sources of the inputs into the BSM ICAP Forecast¹ for the buyer-side market power mitigation ("BSM") rule² determinations for Examined Facilities in bifurcated Class Year 2017-2 that are located in the New York City ("NYC" or "Zone J") and the G-J Localities.³ It is accompanied by an Excel workbook containing specific values and selected calculations;⁴ and the "BSM Narrative and Numerical Example," which provides general information regarding the methodology for the BSM exemption tests, the ICAP forecast, and Offer Floor shaping.⁵

2. Demand Curve Parameters

The ICAP Demand Curves used in the BSM ICAP Forecast are calculated using the parameters outlined in this section. For each parameter, the source is identified and in certain instances, discussed.

2.1. Load Forecast

The Load forecast for the three years comprising the Mitigation Study Period ("MSP") is taken from the most recently-published NYISO Load & Capacity Data ("Gold Book"), *i.e.*, 2019 Load & Capacity Data⁶ Table I-3a "Baseline Summer Coincident Peak Demand, Historical and Forecast," Table I-4a "Baseline Summer Non-Coincident Peak Demand, Historical and Forecast" and Table I-5 "Baseline Peak Demand – G to J Locality, Historical and Forecast."

2.2. New York Control Area Minimum and Locational Minimum Installed Capacity Requirements

Consistent with the Class Year 2017-1 BSM Rule determination⁷ that it was appropriate to use a different value than the current Locational Minimum Installed Capacity Requirements ("LCRs") for the Class Year 2017-1, the NYISO determined that the LCRs used in the Class Year 2017-2 BSM ICAP Forecast are projected values, while the New York Control Area ("NYCA") Minimum Installed Capacity Requirement is

¹ Terms with initial capitalization not defined herein have the meaning set forth in the NYISO's Market Administration and Control Area Services Tariff ("Services Tariff"), and if not defined in the Services Tariff, have the meaning set forth in the NYISO's Open Access Transmission Tariff.

² References herein in to BSM and BSM Rules means the rules set forth Services Tariff Section 23.4.5.7, et seq.

³ See Services Tariff §23.4.5.7.15, "Forecasts Under the Buyer Side Market Power Mitigation Measures".

⁴ The Excel Workbook for Class Year 2017-2 is available at: <u>https://www.nyiso.com/market-monitoring</u> \rightarrow ICAP Market Mitigation \rightarrow Buyer Side Mitigation \rightarrow Class Year 2017 \rightarrow ICAP Buyer Side Mitigation Test Data for Class Year 2017-2 Initial Decision Round May 14, 2019

⁵ The BSM Narrative and Numerical Example is available at: <u>https://www.nyiso.com/documents/20142/3026079/BSM-Narrative-and-Numerical-Example-Updated-May-17-2018.pdf/</u>

⁶ The Gold Book is available at: <u>https://www.nyiso.com/documents/20142/2226333/2019-Gold-Book-Final-Public.pdf/</u>

⁷ See Class Year 2017-1 BSM Assumptions and References (June 8, 2018), available at: https://www.nyiso.com/documents/20142/3025517/ICAP%20Buyerside%20Mitigation%20Test%20Data%20Class%20Year%202017-1%20June%208%202018.pdf/

assumed to remain at the current value of 117%⁸ for all years. The 117% NYCA requirement represents the value approved by New York Reliability Council for the 2019-2020 Installed Reserve Margin on December 7, 2018. This is a decrease of 1.2% from the approved 2018-2019 Installed Capacity Requirement that was assumed to remain constant for Class Year 2017-1.

The identification of the LCRs to be used in the BSM ICAP Forecast is motivated and made possible in large part by the LCR-setting methodology described in section 5.11 of the Services Tariff and approved by FERC on October 5, 2018.⁹ These new rules, which consist chiefly of what is commonly referred to as the "Alternative LCR Methodology" provide a detailed framework and process to establish the LCRs. Using provisions contained therein, and hypothetical conditions including those contemplated by the BSM Forecasts for Class Year 2017-2, the NYISO updated the projected LCRs applicable to Class Year 2017-1 for the Class Year 2017 Mitigation Study Period.

In late 2018, Consolidated Edison ("Con Edison") announced that the four NYC 345kV series reactors will be bypassed in summer months following the shutdown of both Indian Point generating units in 2021.¹⁰ The NYISO expects that there will be an incremental increase in the UPNY-Con Ed interface transfer capability when the four NYC 345kV series reactors are bypassed. Counteracting the effect of that increase on the Zone J LCR is the long term unavailability of Con Edison's B3402 and C3403 345kV cables, which were modeled out of service in the determination of the 2019 LCRs. Taken together, these two topology changes combine to have a slight downward pressure on the Zone J LCR projected for CY2017-2, relative to the Zone J LCR projected for CY2017-1.

The upward adjustment of the G-J Locality LCR is consistent with the downward shift in the 2019 IRM.

The projected LCRs used in the BSM ICAP Forecast, shown in Table 1, were developed using the Alternative LCR Methodology and reflect projected system conditions and topology that are based on the assumptions and inputs developed for the BSM Forecasts.

Capability Year	Zone J	Zone K	G-J Locality
2020/21	83%	105%	92.5%
2021/22	84.5%	104%	92.5%
2022/23	84.5%	104%	92.5%

<u>Table 1:</u> Forecasted Locational Minimum Installed Capacity Requirements (LCRs)

⁸ See the New York State Reliability Council's May 2019 – April 20120 Technical Study Report, *New York Control Area Control Area Installed Capacity Requirement*, (Dec.17, 2018), available at: http://www.nysrc.org/pdf/Reports/2019%20IRM%20Study%20Body-Final%20Report[6815].pdf

⁹ N.Y. Independent. System Operator, Inc., 165 FERC ¶ 61,011 (2018).

¹⁰ See Appendix C of the Draft 2019-2028 Comprehensive Reliability Plan; available on the NYISO website as part of the meeting materials of the May 16, 2019 Operating Committee

2.3. ICAP Demand Curve Zero Crossing Points

The ICAP Demand Curve zero crossing point ("ZCP") for each Locality is set forth in Services Tariff Section 5.14.1.2.¹¹ For Class Year 2017-2, the zero crossing points are 112% for the NYCA, 115% for the G-J Locality, 118% for New York City, and 118% for Long Island ("LI" or "Zone K").

2.4. ICAP Demand Curve Reference Points

The ICAP Demand Curve reference points for the NYCA, NYC, G-J Locality, and Long Island ICAP Demand Curves are set forth in the Services Tariff.¹² A summary of the currently effective Demand Curve parameters for NYCA, NYC, G-J Locality and LI can be found on the NYISO website.¹³ Annual updates to the ICAP Demand Curve reference points are projected for each year of the MSP, in a manner consistent with the Demand Curve annual update rules.¹⁴

2.4.1. Escalating the Peaking Plant Gross Cost

The NYISO escalated the effective ICAP Demand Curve peaking plant gross cost using the ("Inflation Index").¹⁵ For Class Year 2017-2 initial determinations, the Inflation Index value is 2.10%.

2.4.2. Estimating the Peaking Plant Net Energy & Ancillary Services Revenues

For each year of the MSP, the NYISO estimated the net Energy and Ancillary Services ("EAS") revenue offsets using a rolling, "period-correct," three-year sample of inputs. For example, Capability Year 2020/2021 (*i.e.*, year 1 of MSP) used inputs for the period from September 2016 through August 2019 to estimate peaking plant net EAS, which is the same period used in CY2017-1. Capability Year 2021/2022 "rolled off" 2016 and replaced it with 2020. For future dates where historic data were not available, the NYISO used fuel prices based on forward curves, and forecasted LBMPs developed using the econometric model used to estimate net EAS revenues for Examined Facilities, which is discussed further in the BSM Narrative and Numerical Example. The rolling three-year samples of inputs were used in the same dispatch model to estimate the net EAS of the peaking plant of the currently effective ICAP Demand Curves.

¹¹ See Services Tariff Section 5.14.1.2 at table and <u>https://www.nyiso.com/documents/20142/2953344/Demand-Curve-2019-2020.pdf/</u>

 $^{^{12}}$ *Id*.

¹³ 2019-2020 Demand Curve Parameters and Demand Curves, available at: https://www.nyiso.com/documents/20142/2953344/Demand-Curve-2019-2020.pdf/

¹⁴ The annual update rules for the ICAP Demand Curves are set forth in Section 5.14.1.2.2 of the Services Tariff.

¹⁵ Services Tariff §23.4.5.7.4 establishes that "the Inflation Index shall mean the average of the most recently published median Headline Consumer Price Index (CPI) and Headline Personal Consumption Expenditures (PCE) long-term annual averages for inflation over the ten years that includes the last year of the Mitigation Study Period, as reported by the Survey of Professional Forecasters, unless this index is eliminated, replaced or otherwise terminated by the publisher thereof. In such circumstance, the ISO shall utilize the replacement or successor index established by the publisher, if any, or, in the absence of a replacement or successor index, shall select as a replacement a substantially similar index."

<u>Table 2:</u> Projected peaking plant net Energy and Ancillary Services revenues used to identify the ICAP Demand Curves for the BSM ICAP Forecast, represented in \$/kW-Year

Capability Year	Zone J	G-J Locality	NYCA
2020/2021	36.10	32.74	31.75
2021/2022	44.98	36.37	33.67
2022/2023	46.27	32.58	30.09

2.4.3. Estimating Winter-to-Summer Ratio

The NYISO updated the winter-to-summer ratio ("WSR") for each year of the MSP based on the Summer and Winter Capability Period ICAP during each year of the MSP. The available ICAP used to calculate the WSR is a function of the capacity resources identified with inclusion and exclusions rules described in section 3 below.

2.5. Installed Capacity/Unforced Capacity Translation Factor

The Installed Capacity/Unforced Capacity ("ICAP/UCAP") translation factor for each Capability Period is the ICAP/UCAP translation factor published on the NYISO public website that corresponds most closely with the seasonal Dependable Maximum Net Capability values in the most recently published Gold Book. The 2019 Gold Book is the most recently published Gold Book. Therefore, the Summer 2018 and Winter 2018/2019 ICAP/UCAP Translation Factors^{16,17} are used in the ICAP Forecast.

2.6. Demand Curve Calculated Values

The calculations utilized to determine the UCAP reference point, UCAP requirement, UCAP at \$0, and Demand Curve slope are described in the BSM Narrative and Numerical Example.

¹⁶ See ICAP/UCAP Translation of Demand Curve; Summer 2018 Capability Period, available at: https://www.nyiso.com/documents/20142/1399473/Demand-Curve-UCAP-translation-Summer-2018.pdf/

¹⁷ See ICAP/UCAP Translation of Demand Curve; Winter 2017-18 Capability Period, available at: <u>https://www.nyiso.com/documents/20142/2946695/ICAP-Translation-of-Demand-Curve%20-Winter-2018-2019.pdf/</u>

3. Supply Curve

3.1. "Price taking" UCAP (*i.e.*, UCAP that offers at \$0.00/kW-mo)

3.1.1. Generation Capacity – "Existing Units"

Generators and Unforced Capacity Delivery Rights ("UDR") projects identified in the ISO's most-recently published Gold Book that have Capacity Resource Interconnection Service ("CRIS") and are operating at the time that the ISO determines the BSM ICAP Forecast; including but not limited to Generators in Forced Outage or Inactive Reserve status, are identified as "Existing Units" and are included in the forecast.¹⁸

3.1.2. UCAP Associated with Special Case Resources

The capacity associated with Special Case Resources ("SCRs") is based on SCR enrollment in each ICAP Spot Market Auction during the three Capability Years preceding the 2019 Gold Book (*i.e.*, Capability Years 2016/2017, 2017/2018, and 2018/2019). SCR UCAP from the "Monthly SCR Reports" posted on the ICAP section of the NYISO public website were averaged by Capability Period and by each Locality and the NYCA.¹⁹

3.1.3. Unoffered and Unsold Capacity

"Unoffered" and "Unsold" UCAP is based on the "Unoffered" and "Unsold" UCAP megawatts in each ICAP Spot Market Auction during the three Capability Years preceding the 2019 Gold Book (*i.e.*, Capability Years 2016/2017, 2017/2018, and 2018/2019). "Unoffered" and "Unsold" UCAP from the "Monthly UCAP Reports" posted on the ICAP section of the NYISO public website were averaged by Capability Period and by each Locality and the NYCA.²⁰ "Unoffered" and "Unsold" UCAP is removed from the supply stack of each Locality and the NYCA.

3.1.4. Cleared UCAP

Cleared UCAP is offered into the ICAP Spot Market Auctions as a price-taker. Cleared UCAP is the MW of UCAP that had been subject to an Offer Floor and that have cleared in any 12, not necessarily consecutive ICAP Spot Market Auctions.²¹

3.1.5. Examined Facilities from Prior Class Years

The UCAP MW of Examined Facilities that remained in prior Class Years at the time of the completion of that Class Year ("Prior Class Year Facilities") and that do not meet the Generation Capacity criteria in section 3.1.1 above are assumed to be price-takers in the supply stack if the Prior Class Year Facility (a) was on the "Active" tab of the most recently published version of the NYISO Interconnection Queue, and (b) was determined to be exempt from Offer Floor mitigation. For determinations for Class Year 2017-2

¹⁸ See Services Tariff Section 23.4.5.7.15.4, "Existing Units."

¹⁹ See <u>https://www.nyiso.com/installed-capacity-market</u>, under the Monthly Reports \rightarrow Monthly SCR Reports.

 $^{^{20}}$ Id.

²¹ Existing UCAP that is subject to an Offer Floor is excluded from this category, and is described in section 3.2.3 below.

Examined Facilities, Cricket Valley Energy Center II (Queue #444, Class Year 2017-1) and Berrians East Replacement (Queue #393, Class Year 2017-1) met these criteria. Prior Class Year Examined Facilities that did not meet these criteria are considered in the price responsive category, as described in section 3.2.4 below.

3.2. Price responsive UCAP

3.2.1. Additional Units & Excluded Units

In some circumstances, and subject to certain exceptions, a Generator or UDR project that is not already included in the ICAP Forecast as an Existing Unit may be included as an Additional Unit.^{22, 23} Broadly put, this occurs if either: (a) there are positive indicators that the unit will repair and return to service, or (b) the Net Present Value of returning the unit to service is positive. Given that Confidential Information was utilized in the development of the BSM ICAP Forecast, or could be derived from data associated with the Net Present Value analysis, the units studied are identified, but not the determinations for inclusion in the BSM ICAP Forecast.^{24, 25, 26}

²² See Services Tariff Section 23.4.5.7.15.5, "Additional Units."

²³ See Services Tariff Section 23.4.5.7.15.7, "Exceptions."

²⁴ Services Tariff Section 23.4.5.7.15.1 provides that a "'positive indicator'" that a Generator or UDR project will repair and return to service includes indications that a return to service is, in the ISO's judgment, likely and imminent, such as visible site activity, executed labor or fuel supply arrangements, or unit testing."

²⁵ See Services Tariff Section 23.4.5.7.15.8, "Net Present Value Analysis."

²⁶ Units having received a Catastrophic Failure determination are identified as having been studied under the Net Present Value Analysis in order to protect the confidentiality of that determination, despite being identified as Excluded Units.

3.2.1.1. Net Present Value Analysis

	CRIS	Summer	Winter
Ravenswood 04	15.2	12.9	15.6
Ravenswood 05	15.7	15.5	17.2
Ravenswood 06	16.7	12.6	16.5
Ravenswood 09	21.7	16.3	21.9
Astoria GT 11	23.6	16.5	25.0
Binghamton	43.8	43.7	47.1
Lyonsdale	20.2	19.3	20.3
Cayuga 2	154.7	139.6	158
Ravenswood 2-1	40.4	31.4	41.7
Ravenswood 2-2	37.6	29.9	41.9
Ravenswood 2-3	39.2	28.9	37.3
Ravenswood 2-4	39.8	30.7	41.9
Ravenswood 3-1	40.5	31.9	40.8
Ravenswood 3-2	38.1	29.4	40.3
Ravenswood 3-4	35.8	31.2	40.8
Gilboa 1	290.7	293.7	292.5

Table 3: Facilities Evaluated under MST Sections 23.4.5.7.15.4, .5, and .6

3.2.1.2. Indian Point Units 2 & 3

Generators and UDR projects for which there is publicly available information demonstrating with reasonable certainty that they will indefinitely cease operation shall be identified as excluded capacity.²⁷

For Class Year 2017-2, the NYISO excluded Indian Point Unit 2 as of April 30, 2020, and Indian Point Unit 3 as of April 30, 2021, based on public information about each unit's proposed retirement date.²⁸

3.2.1.3. On-going Generation Deactivation Assessments

Generators for which the NYISO has received a completed Generator Deactivation Notice but has not yet completed a Generation Deactivation Assessment at the time of the Class Year 2017-2 BSM evaluation

²⁷ See Services Tariff Section 23.4.5.7.15.7.3, "Exceptions".

²⁸ See, e.g., Indian Point Agreement, by and among, the State of New York, et al., and Entergy Nuclear Indian Point 2, LLC, et al. (dated January 8, 2017), available at: <<u>https://www.riverkeeper.org/wp-content/uploads/2017/01/Indian-Point-Closure-Agreement-January-8-2017.pdf</u>>; "Entergy, NY Officials Agree on Indian Point Closure in 2020-2021" available at <<u>http://www.safesecurevital.com/entergy-ny-officials-agree-on-indian-point-closure-in-2020-2021/</u>>.

were identified as Existing Units for the forecast.²⁹ There are four units in this category: Hudson Ave GT 4, Auburn - State Street, Monroe Livingston LFGE, and Steuben County LF.³⁰

3.2.2. Unforced Capacity Delivery Rights that have already entered the market

UCAP sales associated with UDRs of existing UDR facilities were forecasted using a two-step process. First, historical monthly UCAP sales from UDR facilities during the three Capability Years preceding the 2019 Gold Book (*i.e.*, Capability Years 2016/2017, 2017/2018, and 2018/2019) were determined and then Capability Period and Locality averages were calculated.

Second, UDR facilities were assumed to only import UCAP if the relevant market price spread would compensate the UDR rightsholder(s) for the cost of obtaining capacity in the neighboring Control Area.

For the Class Year 2017-2 forecast, UDR UCAP sales into New York City were reduced until capacity prices at the UDR source and sink points converged or UDR sales reached zero. UDR UCAP sales into Long Island were not adjusted.³¹

3.2.3. Net of Imports into and Exports from the NYCA

First-come, first-served imports and exports over AC transmission were forecasted using a two-step process. First, historical import and export UCAP sales over AC transmission during the three Capability Years preceding the 2019 Gold Book (*i.e.*, Capability Year 2016/2017, 2017/2018, and 2018/2019) were determined. Additionally, the NYISO also considered the capacity imports associated with the External-to-ROS Deliverability Rights ("EDRs") under the proposed HQUS 80 MW (*i.e.*, HQUS Project).³²

Second, the price-responsiveness of these imports and exports was reviewed. That is, did import and export UCAP vary as a function of the difference in capacity market prices between the NYISO and the neighboring Control Area? For Class Year 2017-2, the NYISO found that imports from Hydro Quebec and PJM were not price-responsive and that imports from ISO New England were price responsive.

Therefore, UCAP imports and exports from ISO New England were adjusted based on the difference between ISO New England Forward Capacity Auction capacity prices and the BSM ICAP Forecast prices.

https://www.nyiso.com/documents/20142/3025337/MMU%20Report%20on%20CY15%20BSM%20Evaluations %20Final%20-%2002022017.pdf/

²⁹ See Services Tariff §23.4.5.7.15.7.1, "Exceptions"

³⁰ See Posting of Completed Generator Deactivation Notices, available at: <u>https://www.nyiso.com/ny-power-system-information-outlook</u> \rightarrow Planned Generation Retirements \rightarrow Planned Retirement Notices \rightarrow Generator Deactivation Notice Form

³¹ This methodology was also used for the preceding Class Year BSM determinations. *See* Potomac Economics' "Assessment of the Buyer-Side Mitigation Exemption Tests for the Class Year 2015 Projects" (February 2, 2017) discusses this point at p 44-45,

³² This proposed HQUS project requested 80 MW of CRIS in Class Year 2017 associated with a transmission upgrade being evaluated in the NYISO's Transmission Interconnection Procedures as Queue No. 430. This transmission upgrade increases transmission capacity on the Cedar Rapids Intertie between the province of Québec and the Rest of State. EDRs associated with the CRIS could be used to import external capacity The NYISO's Interconnection Queue reflects the project's expected commercial operation date as fourth quarter of 2019.

In doing so, the NYISO also confirmed that forecasted imports and exports remain at levels in the range of the three most recent Capability Years. Specifically, in the forecast, monthly imports were restricted from exceeding the maximum observed monthly import value of the three Capability Years of data that was used to develop the initial import and export values (*i.e.*, Capability Years 2016/2017, 2017/2018, and 2018/2019). Forecasted monthly exports were restricted from exceeding the average Capacity Supply Obligation that NYCA resources obtained during ISO New England's Forward Capacity Auction #11, Forward Capacity Auction #12 and Forward Capacity Auction #13.

Additionally, given the potential for the Champlain Hudson Power Express (*i.e.*, CH Interconnection project in Class Year 2017-2) to substantially increase capacity imports from Hydro Quebec to the NYCA, the capacity margins of Hydro Quebec were evaluated. Reductions in capacity margins (*i.e.*, load growth, resource retirements, and increased exports from Hydro Quebec) were compared with growth in capacity margins (*i.e.*, resource additions) during the Mitigation Study Period.³³ The NYISO determined that Hydro Quebec is likely to have sufficient capacity margins to simultaneously continue its historical export patterns and support additional exports. Therefore, historic capacity imports from Hydro Quebec to the NYCA were not adjusted.

3.2.4. Existing UCAP That is Subject to an Offer Floor

Existing UCAP that is subject to an Offer Floor is added to the price-responsive category of the supply stack.

This UCAP is included in the BSM ICAP Forecast price at its applicable Offer Floor, inflated to the Mitigation Study Period. The NYISO adjusted the Offer Floor of Mitigated UCAP to account for inflation as described in Section 4 of the BSM Narrative and Numerical Example.

3.2.5. Prior Class Year Examined Facilities not under the Section 3.1.5 Criteria

The UCAP of Prior Class Year Examined Facilities that have not yet entered the market are included in the price-responsive category of the supply stack if it (a) is on the "Active" tab of the most recently published version of the NYISO Interconnection Queue, (b) received an Offer Floor in its Class Year, and the NYISO determined it is has satisfied at least one of the following: (c) approximately, has incurred or expended, in the aggregate, more than 5 percent of its cost of new entry for the following: engineering, procurement, and construction costs; financing costs; or interconnection costs invoiced by the interconnecting Transmission Owner(s), *e.g.*, Transmission Owner attachment facilities, System Deliverability Upgrades, and System Upgrade Facilities; net of any amounts that would likely be recouped if the project was not completed (*e.g.*, a deposit that would be returned) ("5 percent threshold") or (d) would earn sufficient capacity revenue to recoup its Unit Net CONE, considering its Offer Floor, in a capacity price forecast for a three-year period starting one year before the Class Year 2017 Mitigation Study Period, and which does not include the current Class Year Examined Facilities.

Facilities that met all three criteria are included in the Class Year 2017 ICAP Forecast supply stack at the applicable Offer Floor, inflated to the Class Year 2017 Mitigation Study Period.

³³ See 2018 Long-Term Reliability Assessment, https://www.nerc.com/pa/RAPA/ra/Reliability%20Assessments%20DL/NERC_LTRA_2018_12202018.pdf

3.2.6. Examined Facilities in Class Year 2017-2

Examined Facilities are assumed to offer into the appropriate Locality(ies) and the NYCA from lowest to highest, ordering each Examined Facility by the lower of the first year value of its Unit Net CONE or the numerical value equal to 75% of the Mitigation net CONE.

For Class Year 2017-2, the NYISO includes the following Examined Facilities in the price-responsive category of the supply stack:

- CH Interconnection, New York City
- Linden Cogeneration, New York City
- Linden Cogeneration Uprate, New York City.

Examined Facilities are required to submit expected net degraded summer and winter capacity values as part of the BSM evaluation. The NYISO sought to validate the submission and, if not validated, the NYISO substituted alternate appropriate net degraded summer and winter capacity values. Such values were utilized in the BSM evaluation, including in the BSM ICAP Forecast.

3.2.7. Class Year Projects and Prior Class Year Projects Located Outside the Mitigated Capacity Zones

The UCAP of Class Year Projects and Prior Class Year Projects located outside the Mitigated Capacity Zones were evaluated in a two-step process. First, the UCAP of Prior Class Year Projects that was never operational and that was removed from the Interconnection Queue was not considered. The UCAP of Class Year Projects and Prior Class Year Projects located outside the Mitigated Capacity Zones that are already operational, including the Class Year Projects seeking additional CRIS (*e.g.*, and uprate), or that have ERIS and are only seeking CRIS, are assumed to be in-service.

Second, each Class Year Project and remaining Prior Class Year Project located outside the Mitigated Capacity Zones are assumed to offer into the NYCA from lowest to highest, ordering each Project by a Unit Net CONE (estimated based on publically available data sources and in some instances, on Confidential Information) or as a price-taker (\$0.00/kW-mo) depending chiefly on whether or not it was in service and whether it was CRIS-only.

4. Auction Resolution for a Locality Contained Within Another Locality

ICAP Spot Market Auction clearing prices for the Part B test were forecasted by sequentially offering Class Year 2017-2 Examined Facilities from lowest to highest, ordered by the lower of the first year value of each Examined Facility's Unit Net CONE or the numerical value equal to 75% of the Mitigation Net CONE. For each iteration, the resulting three year average ICAP Spot Market Auction price was compared with the three-year average Unit Net CONE (UNC) of the Examined Facility. If the three year average ICAP Spot Market Auction clearing price exceeded the UNC of the Examined Facility, then:

- the Examined Facility received a Part B exemption, and
- the Examined Facility offered into all subsequent iterations of the ICAP Spot Market Auction forecast (*i.e.*, for all Examined Facilities with higher values of the lower of the first year value of their Unit Net CONE or the numerical value equal to 75% of the Mitigation Net CONE) at \$0/kW-mo.

If the forecasted three year average ICAP Spot Market Auction clearing price is less than or equal to the UNC of the Examined Facility, then:

- the Examined Facility did not receive a Part B exemption, and
- is excluded from all subsequent iterations of the ICAP Spot Market Auction Forecast.

This iterative process continued until all Examined Facilities were tested.

ICAP Spot Market Auction clearing prices for the Part A test are determined using the same iterative method.

The BSM Narrative and Numerical Example provides an illustrative example of both processes.

For all ICAP Spot Market Auction forecasts, a minimum market clearing price of \$1.00/kW-mo in each Locality and the NYCA is assumed. When UCAP does not clear in the smallest Mitigated Capacity Zone that contains the Load Zone in which the Examined Facility is electrically located (*i.e.*, NYC), the UCAP is "reoffered" into the auction of the other Locality in which it is located (*i.e.*, the G-J Locality), and the NYCA.

Finally, the ICAP Spot Market Auction clearing price for a Locality is the maximum of that Locality's ICAP Spot Market Auction clearing price and the ICAP Spot Market Auction clearing prices of all Localities in which it is located, and the NYCA.