



Buyer Side Mitigation: Overview

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CY2019 Buyer Side Mitigation Data Submission Information Session

September 19, 2019



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Session Objectives

- **Why? – Lou Lombardi**
 - Purpose of buyer-side mitigation and implications
- **What? – Christina Duong**
 - Project data submission requirements
- **How? – David Parries**
 - Demo of ICAP reference system

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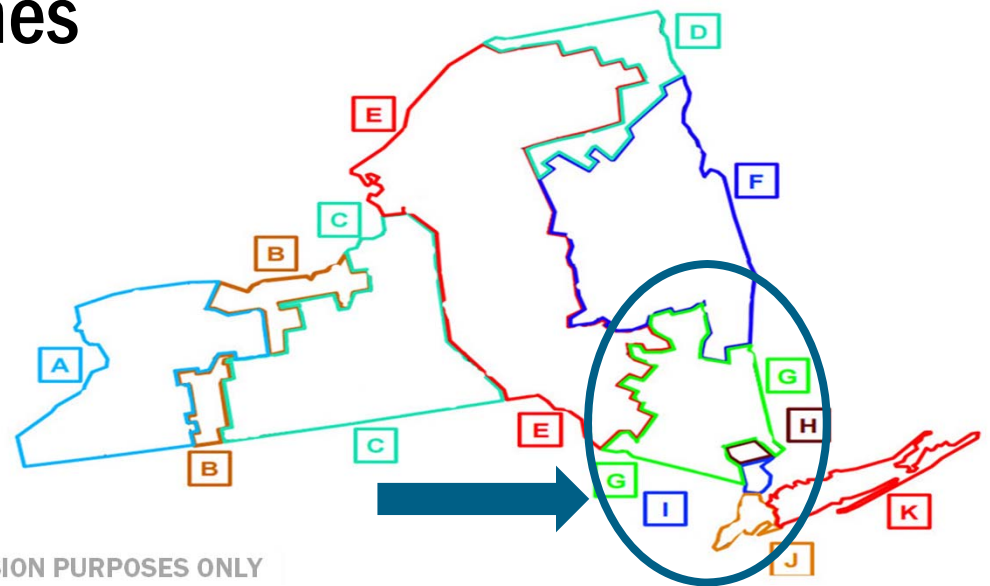
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Mitigation Measures

- **NYISO Market Power Mitigation Measures**
 - Implemented as instructed by FERC
 - Allow the ISO to mitigate the market effects of conduct that would substantially distort competitive outcomes
 - Avoid unnecessary interference with competitive price signals
- **Capacity market-specific measures**
 - Supplier-Side Mitigation
 - **Buyer-Side Mitigation**
- **Capacity market measures are specified in Market Services Tariff (MST) Att. H, Section 23.4.5**

Mitigated Capacity Zones

- Capacity market mitigation measures are applied in Mitigated Capacity Zones
 - NYC
 - G-J Locality



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Buyer Side Mitigation Measures

The purpose of Buyer Side Mitigation (“BSM”) is to prevent uneconomic entry from artificially suppressing capacity prices.

Buyer-Side Mitigation Measures

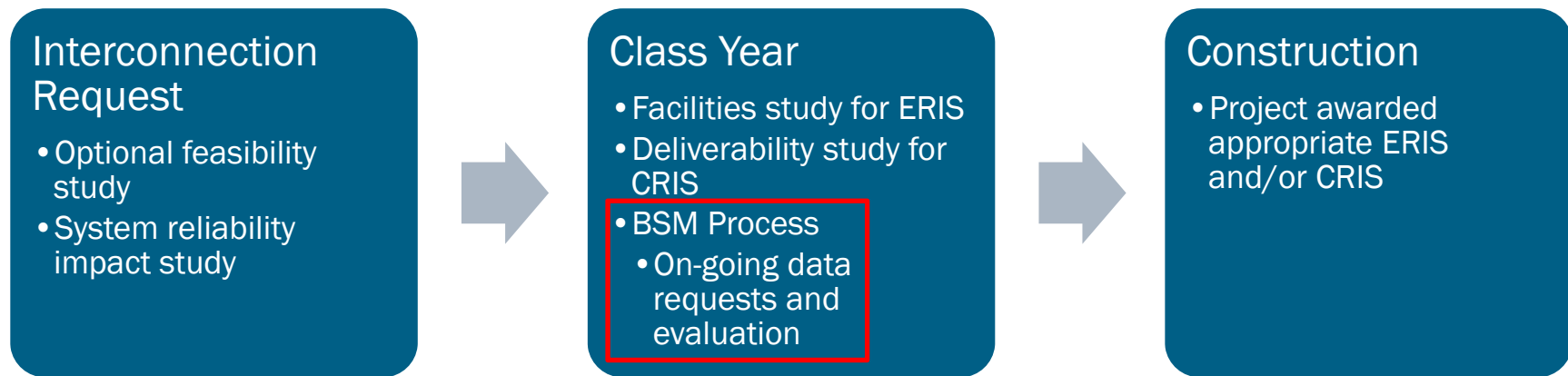
- **Resources subject to the BSM rules are:**
 - Proposed generators seeking new CRIS or a transfer of CRIS in G-J
 - Proposed UDR projects (controllable HVDC line) with a terminus in G-J
 - Existing generators or UDR projects that seek to add CRIS either through Class Year process or a transfer (“Additional CRIS MWs”)
- **Proposed new generators, UDR projects, and Additional CRIS MW are referred to as “Examined Facilities”**
 - Examined Facilities are examined in a two-part test to determine whether an offer floor is applicable
 - An examined facility may request a Competitive Entry Exemption, Renewable Exemption* or Self-Supply Exemption*
 - The tariff-specified deadline for requesting these exemptions has passed

*Pending at FERC

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BSM Process is Concurrent with Class Year



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Unit Net CONE

- CONE – Cost of New Entry
- Unit Net CONE (“UNC”)
 - Specific to an individual project
 - Unit Net CONE = Unit Costs - Unit Revenues
 - The capacity market price a project requires to break even
- The NYISO uses your submitted data to calculate UNC which is required for performing exemption tests (Part A and Part B)
 - Goal of this information session is to enable you to submit this data

Part B Test

- “Are these MWs economic?”
- Performed first to avoid subversion by part A
 - Ensures most economic MWs are given the best chance
- Mitigation Study Period – 3 year window beginning 3 years from start of class year
 - 2022 – 2025 for class year 2019
- Projects tested in order of Unit Net CONE, starting with the lowest
 - Favors economically efficient projects
- Forecast price during study period must remain above UNC to pass

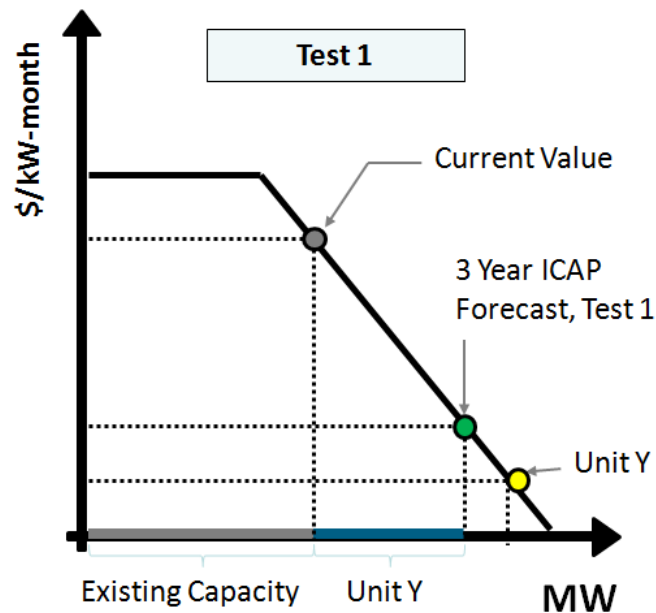
“Fail” in these examples means not exempt;
 “Pass” means exempt



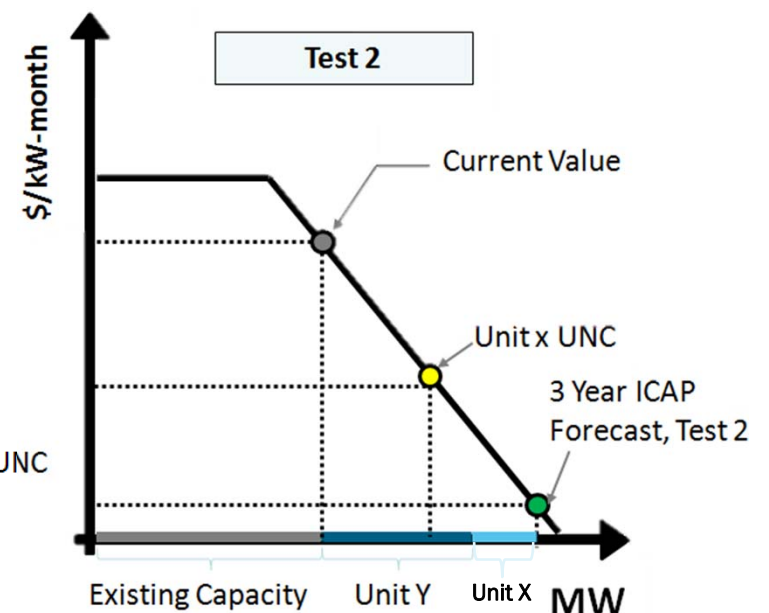
Example

Part B

Examined Facility	Size (MW)	Unit Net CONE (\$/kW-yr)	3 Year ICAP Forecast (\$/kW-yr)
Unit X	100	170	120
Unit Y	200	140	150



Result: Unit Y **PASSES** Part B Test



Result: Unit X **FAILS** Part B Test

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Part A Test

- **“Are these MWs needed in the locality?”**
- **Performed second to avoid subverting intent of part B**
 - Ensures most economic MWs are given the best chance
- **Timeframe is 1st year of 3 year mitigation study period**
 - 2022 - 2023 for class year 2019
- **Projects tested in order of Unit Net CONE, starting with the lowest**
 - Favors small and economically efficient projects

“Fail” in these examples means not exempt;
 “Pass” means exempt

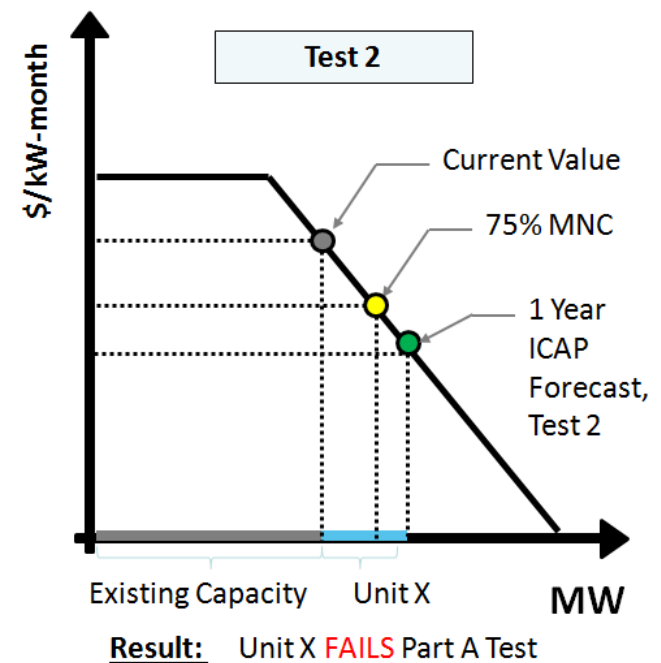
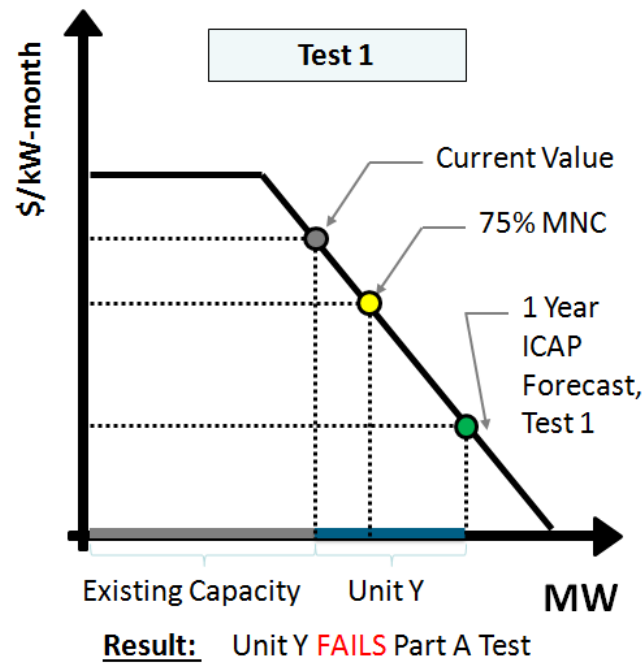


Example

Part A

MNC – Mitigation Net CONE, based on simple cycle combustion turbine peaker

Examined Facility	Size (MW)	75% Mitigation Net CONE (\$/kW-yr)	1 Year ICAP Forecast (\$/kW-yr)
Unit X	100	200	175
Unit Y	200	200	165



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Exemptions

- **Some projects may have requested an exemption**
 - Competitive entry exemption
 - Renewable exemption
- **Projects that have requested these exemptions are still required to submit required data for the NYISO to calculate UNC**
 - BSM tests and exemptions are unrelated

Exempt Facility

- **What are the consequences of passing either Part A test or Part B test or receiving an exemption?**
 - Capacity market activity is unrestricted
 - Can enter bilateral contracts
 - Can participate in strip, monthly, spot auctions
 - Can offer capacity at \$0, guaranteeing MW will clear

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Non-Exempt Facility

- **What are the consequences of failing both Part A and Part B tests and not receiving any exemption?**
 - Can you still interconnect?
 - Yes, assuming other class year requirements are met
 - Capacity market activity restricted to spot auction
 - Offer floor will be applied

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Offer Floor

- **Offer floor based on lower of:**
 - Annual Unit Net CONE
 - Default Net CONE (75% Mitigation Net CONE)
- **Calculated for first year of Mitigation Study Period**
 - Adjusted for seasons and inflation as necessary
- **If market conditions develop as expected**
 - MWs will not clear, project likely to lose money
- **If market conditions deviate from forecast**
 - Any MWs clear for 12 months (not necessarily consecutive)
 - Floor is removed on that MW quantity

Class Year 2019 Compared

- **Class Year 2015, zones G-J**
 - 5 developers, 6 projects
- **Class Year 2017, zones G-J**
 - 6 developers, 7 projects
- **Class Year 2019, zones G-J**
 - 22 developers, 64 projects
 - First time for energy storage

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Questions?

We are here to help. Let us know if we can add anything.

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- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



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