Host/Process Load

MRC

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IMM



Monitoring Analytics

ICAP

- **PJM's Reliability Assurance Agreement (RAA) requires Generation Capacity Resources to demonstrate their capability (Schedule 9).**
- **The rules and procedures for determining and demonstrating ICAP are maintained in the PJM Manuals (Manual 21B).**
- **ICAP or Installed Capacity is not defined in any of the main PJM governing documents (OATT, OA, RAA).**
- **RAA: *"Rules and procedures for technically determining and demonstrating the installed capacity of ELCC Resources shall be developed by the Office of the Interconnection and maintained in the PJM Manuals."***

Manual 21B

- **Installed Capacity (ICAP) of a generation resource is defined as the net capability of a generating unit as determined in accordance with this manual and is within the capacity interconnection right limits of the bus to which it is connected.**
- **ICAP is also the capability of the generating unit at the expected time of the PJM Summer Peak. This is also referred to as the "rated capability" or "rated ICAP." Rated capability or rated ICAP is determined by adjusting the generator's capability for generator site conditions coincident with the dates and times of the last 15 years PJM summer peaks (also known as summer conditions).**

Capability Tests

- **PJM Manual 21B contains the rules and procedures required for such tests. Summer verification tests must be performed between June 1 and August 31. The results of tests must be corrected to reflect the average ambient conditions coincident with the PJM summer peaks of the last 15 years**

Host/Process Load

- **PJM Manual 21B states:**

  "In addition to consideration of station service, auxiliary and other load that is used to support the operation of the generating unit, the ICAP of a generation resource must also take into consideration host/process load that is located behind the generation resource's Point of Interconnection. Such load must be removed from the generator's ICAP and must be measured and reported separately for the generation resource net of station service load and other load that supports the operation of the generation resource."

Host/Process Load

- **PJM Capacity Verification Test FAQ:**

  "Host/Process Load - This is primarily for co-generators, CHP units (Combined Heat and Power), and units that have host or other onsite load. It is the load consumed during the test by the host or onsite customer; this includes both electrical and thermal load (thermal load must be converted to electrical load in some cases). Typically, topping units need to have their thermal load converted to electrical load (MW) to demonstrate what the unit's full gross capability would be without the host or process load; bottoming units typically use waste heat from the host process and need only to include electrical load sent to the host. There are exceptions to these situations, contact the PJM eGADS team if you need to discuss your facilities specific situation. Also, Manual 14D and Manual 14G, delineate how to calculate host/process load under their respective BTMG sections. Typically, the highest integrated hourly host/process load in the most recent 36 months is the amount to be entered on the test form; however, if host/process load at test time is higher, then the load at test time should be entered."

Host/Process Load

- **ICAP is determined based on PJM Manual 21B rules.**
- **PJM provides further guidelines in PJM's Capacity Verification Test FAQ. These guidelines apply to all generator types.**
- **ICAP for cogenerators and/or units providing steam/power to a host must account for the highest host/process load in the last 36 months prior to the test if higher than the host/process load during the test.**

Inquiries

- In 2025, the IMM began contacting cogenerators and/or units with hosts.
- The IMM requested data to validate that the units' capability (gross ICAP) was enough to cover the highest host/process load in the last 36 months.
  - Some units' capability was high enough that it covered the highest host/process load in the last 36 months.
  - Some units' host/process load did not impact the units' ICAP.
  - Some units had to derate their ICAP.
  - Some units disagreed.

ICAP Must Offer Requirement

- **All thermal units are required to offer the ICAP equivalent of their committed UCAP in the Energy Market.**
- **Units are exempt from meeting the must offer requirement due to outages (planned, maintenance and forced/unplanned).**
- **The tariff requires capacity resources, that are not on outage, to make those MW available.**
- **Capacity resources' MW cannot be taken out of the market to serve host/process load. That would be a violation of the must offer requirement.**
- **The 36 months rule ensures that does not happen.**

Recommendation

- **The IMM agrees with the inclusion of the FAQ language in Manual 21B.**
  - **This is not a change.**
  - **It is documenting PJM's ICAP determination guideline.**
- **The IMM disagrees with making it prospective.**
  - **That would be a change.**
  - **Inconsistent with PJM's position.**
- **The IMM disagrees with the additional language that would allow capacity resources to serve host/process load with MW paid for by PJM customers.**

Recommendation

- **The IMM would be supportive of a stakeholder process to review the ICAP definition and determination holistically and prospectively.**
- **This can include:**
  - **Testing requirements**
  - **Rated conditions definition**
  - **Documentation requirements**

Monitoring Analytics, LLC
2621 Van Buren Avenue
Suite 160
Eagleville, PA
19403
(610) 271-8050

MA@monitoringanalytics.com
www.MonitoringAnalytics.com