

Resource Capability Testing

Amount of Capacity Available

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Intermediate ICAP Course

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Objectives

Participants will be able to:

- Identify three ways Resource Capability may be determined
- Identify the purpose of Resource Capability data
- Explain the difference between DMNC and DMGC
- Identify the requirements and resource specific criteria for testing
- Describe the submittal process for Resource Capability data
- Identify non-compliance associated with test data submittal

Resource Capability

- **Determined by**
 - Capability Test
 - DMNC
 - DMGC
 - Performance Test
 - OR
 - Resource Nameplate
 - OR
 - Actual Production Data
- **Determination based on Resource Type**

**Refer to ICAP Manual for details*

Resource Capability

- **Types of Capacity Resources**
 - Generators, System Resource and Control Area System Resource
 - Energy Limited Resource (ELR) and Capacity Limited Resource (CLR)
 - Intermittent Power Resource (Wind, Solar, Landfill Gas)
 - Hydro Resource
 - Limited Control Run-of-River Hydro Resource (LCRoR)
 - Behind-the-Meter Net Generation Resource (BTM:NG)
 - Special Case Resource (SCR)

**Refer to ICAP Manual for details*

NYISO Use of Resource Capability Test (or Equivalent) Data



- Represents the MW capability of a Resource
- Validated by NYISO
- Used to calculate ICAP and Unforced Capacity (UCAP) value
- Used for Outage Scheduling
- Used in interconnection and reliability studies
- Used by Transmission Owners



Testing Requirements

DMNC, DMGC and Performance Data

Resource Capability Test Requirements

- **Perform Capability Tests or submit data from actual operation of Resources**
 - Every Capability Period
 - Applied to next like Capability Period
 - Can be used to update Installed Capacity rating during current Capability Period
 - Test may be DMNC, DMGC or Performance Test

DMNC Defined

- **Dependable Maximum Net Capability (DMNC)**
 - The sustained maximum net output of a Generator, as demonstrated by the performance of a test or from actual operation, averaged over a continuous time period as defined in the ISO Procedures.

**Market Administration and Control Area Service Tariff (MST) Section 2.4*

DMGC Defined

- **Dependable Maximum Gross Capability (DMGC)**
 - The sustained maximum output of the Generator of a BTM:NG Resource, as demonstrated by the performance of a test or through actual operation, averaged over a continuous time period
- **All of the same procedures that apply to DMNC also apply to DMGC as discussed in the upcoming slides**
 - ICAP Manual Section 4.2

**Market Administration and Control Area Service Tariff (MST) Section 2.4*

Test Requirements

Winter Capability Period						Summer Capability Period					
Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct
Winter TEST Period						Summer TEST Period					

- **Conduct test during applicable Capability Period test window**
 - Summer – June 1 to Sept 15
 - Winter – Nov 1 to Apr 15
 - Tests outside these periods are only permitted if in accordance with the ICAP Manual 4.2 for “out-of-period” tests
- **A generator may perform additional tests during the Test Period**
- **All tests must be approved by NYISO**
- **Operating configuration during test**
 - Use same operating configuration and fuel mix that would be used during peak load conditions for Summer and Winter
- **Exceptions to these test periods are Special Case Resources - see next slide**

Test Requirements - SCRs



- Each SCR is required by the NYISO to demonstrate its maximum enrolled megawatt value once in every Capability Period
 - NYISO will accept as evidence of such demonstration the higher of its greatest load reduction either in a mandatory event hour or in a first performance test hour
- Performance test period for SCRs are determined by NYISO as follows:

Summer Capability Test Period

Performance test in hours that correspond to the time boundaries of the Capability Period SCR Load Zone Peak Hours

Aug 15 - Sept 7

Winter Capability Test Period

Performance test in hours that include one (1) hour before and one (1) hour after the actual hours included in the Capability Period SCR Load Zone Peak Hours, for that Winter Capability Period, not to exceed the time boundaries of the Capability Period SCR Load Zone Peak Hours

Feb 15 - Mar 3

- In addition to demonstrating its maximum enrolled megawatt value once in every Capability Period as described above, a SCR enrolled with an Incremental ACL or a SCR Change of Status may also be required to perform in the second performance test in the Capability Period

**Refer to the ICAP Manual Section 4.12.4 for additional details*

Let's Review



Select the letter that has a correct statement:

- a) DMNC is the Desired Maximum Net Capacity for a generator
- b) DMNC is the Dependable Maximum Net Capability for a load serving entity
- c) DMNC is used to determine the amount of generator capacity for the ICAP market
- d) DMNC values are NOT used to determine the amount of generator capacity for the ICAP market

Let's Review



Select the letter that has a correct statement:

- a) DMGC values are NOT used to determine the amount of generator capacity for the ICAP market
- b) DMGC is the Dependable Maximum Net Capacity for a load serving entity
- c) DMGC is the Desired MW Generator Capability for a BTM:NG resource
- d) DMGC is the Dependable Maximum Gross Capability for a BTM:NG resource



Scheduling Tests

Notification and Obligation

Scheduling DMNC/DMGC Tests

Notify NYISO Scheduling and the Transmission Owner (TO) accordingly:

- **For Units >100 MW**
 - At least 5 business days advanced notification required
 - Must bid hours for test in DAM
 - If not scheduled – Test is canceled—notify NYISO and the TO by 1400 hours day before
- **For Units > 25 MW and <99 MW**
 - At least 2 business days advanced notification required
 - DAM bid not required, but must be scheduled by RTC
- **For Units < 25 MW**
 - No advanced notification requirement

**Transmission and Dispatching Operations Manual Section 5.7.5*

Obligations Day of Test

- **Resources performing DMNC/DMGC test**
 - At least 3 hours prior to scheduled test, generator must request permission to start test from NYISO through Transmission Owner (TO)
 - Ensure RT hours are scheduled for test
 - Adjust RT bid to allow RT Dispatch (RTD) to schedule Generator to DMNC/DMGC rating
 - Notify NYISO, through TO, when the test has started and completed
- **For SCRs, NYISO shall provide at least 2 hours notice that the SCR's performance will be required**
 - Refer to ICAP Manual Sections 4.12.4 and 4.12.5

Scheduling Tests

- **Energy provided by Generator during test**
 - If scheduled in DAM
 - May be covered by Bid Production Cost Guarantee, if eligible
 - If scheduled in Real Time
 - Paid Real Time LBMP
- **If Generator suspects it will not get an energy schedule, it may request Out-of-Merit to perform tests**
 - Refer to NYISO Accounting and Billing Manual; Section 5, Appendix C and the Transmission and Dispatching Operations Manual Section 5.7.5

Let's Review

Winter Capability Period						Summer Capability Period					
Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct
Winter TEST Period						Summer TEST Period					

May a generator use data from a February 20, 2016 DMNC test in lieu of performing a DMNC test to sell UCAP in the 2017 Summer Capability Period?

- a) No, previous test data may never be used in lieu of a test.
- b) No, the February 20, 2016 test was a Winter Capability Period test that can not be used for the Summer Capability Period.
- c) Yes, the test data is good for one year in either Capability Period.
- d) Yes, the test data is from a like period and is less than one year old.

Let's Review



A generator is being converted from a coal to a biomass unit. Is the DMNC test performed while on coal valid for the unit after the conversion to biomass?

- a) Yes, the plant heat rate while on coal or biomass would be the same, therefore, the unit output will not change for the conversion.
- b) Yes, the plant configuration and fuel mix will remain the same except during the peak for the season.
- c) No, another test is required because of the change in fuel from the previous test.
- d) No, another test is required because a drought has impacted the biomass futures market.

Let's Review

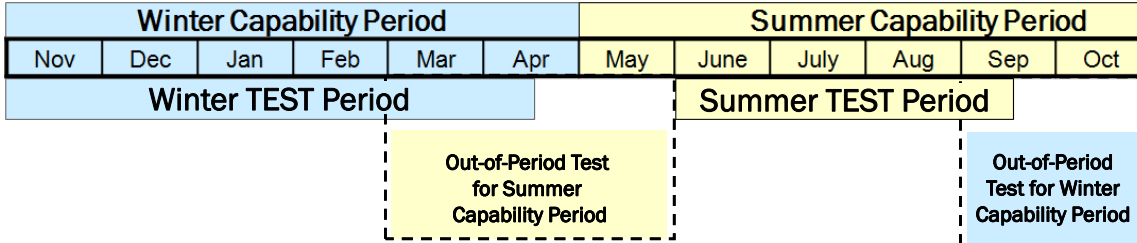


Winter Capability Period						Summer Capability Period					
Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct
Winter TEST Period						Summer TEST Period					
Test	Test Date	DMNC Results	Season	Effective Date							
1	6/1/14	615.50	Summer	5/1/15							
2	6/2/2015	621.5	Summer	5/1/16							
3	7/22/13	632.00	Summer	5/1/14							
4	9/17/15	618.5	Winter	11/2/15							

Which DMNC test would be applicable for the 2016 Summer Capability Period?

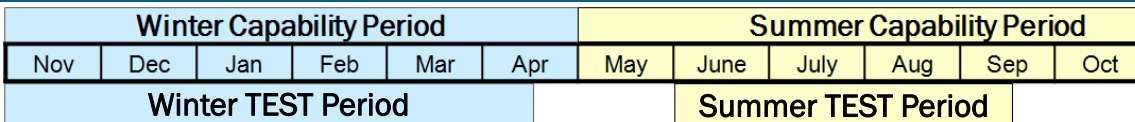
- a) Test #1
- b) Test #2
- c) Test #3
- d) Test #4

Out-of-Period (OOP) DMNC/DMGC Test



- To begin next Capability Period**
 - Summer: Test data from after 3/1 and prior to 6/1
 - Winter: Test data from after 9/1 and prior to 11/1
- The OOP test must be verified with equal or greater test result within the next Test Period or penalties may apply**

Let's Review



Test	Test Date	DMNC Results	Season	Effective Date
1	9/10/16	615.50	Winter	11/1/16
2	12/29/2014	621.5	Winter	11/1/15
3	3/22/15	632.00	Summer	5/1/16
4	9/17/15	618.5	Winter	11/2/15

Which DMNC test would be applicable for the 2016-2017 Winter Capability Period?

- a) Test #1
- b) Test #2
- c) Test #3
- d) Test #4

Resource Specific Test Conditions

Duration, Temperature Adjustment, DMNC/DMGC Equivalent

Resource Specific Test Conditions

- Resource specific test conditions are identified and summarized by resource type in the following slides
 - For details, ICAP Manual Section 4.2.2
- Test results are net of any station service load – for all resources
 - For details, ICAP Manual Section 4.2.3

Resource Specific Test Conditions



- **Criteria for Fossil Fuel and Nuclear Stations**
 - Sustained maximum net output for 4 consecutive hours
 - Integrated hourly average at top of each hour

- **Criteria for Hydro Stations (except for LCRoR)**
 - Sustained net output averaged for 4 consecutive hours (top-of-hour to top-of-hour)
 - Uses average stream flow and/or storage conditions within machine discharge Capacity

**Refer to ICAP Manual Section 4.2.2*

Resource Specific Test Conditions



- **Criteria for Combined Cycle Stations**
 - Sustained maximum net output for 4 consecutive hours
 - Integrated hourly average at top of each hour
 - Corrected for temperature
 - Average ambient temperature at time of Transmission District's peak during previous 4 like capability periods excluding the shoulder months
 - For Winter: exclude November and April
 - For Summer: exclude May and October
 - Temperature from approved weather station or auditable recording device at the generator site

**Refer to ICAP Manual Section 4.2.2*



Average Ambient Temperature

Transmission District Winter and Summer Peak Dates

Posted on NYISO Web Site: <https://www.nyiso.com/installed-capacity-market>



Winter Capability Period						
Dec 1 - Mar 30	Central Hudson		Consolidated Edison		Long Island PA	
	Date	Hour Ended	Date	Hour Ended	Date	Hour Ended
1996 -1997	1/17/1997	18	1/9/1997	18	1/17/1997	19
1997 -1998	12/10/1997	18	3/31/1998	17	12/8/1998	18
1998 -1999	1/14/1999	18	1/14/1999	18	1/14/1999	18
1999 -2000	1/17/2000	19	1/18/2000	18	1/17/2000	19
2000 -2001	1/2/2001	19	12/8/2000	18	12/28/2000	19
2001 -2002	1/2/2002	17	1/3/2002	18	1/2/2002	19
2002 -2003	1/23/03, 1/27/03	19	1/23/2003	18	12/7/2003	19
2003 -2004	1/15/2004	19	1/15/2004	18	1/15/2004	19
2004 -2005	12/20/2004	19	12/20/2004	18	12/20/2004	19
2005 -2006	12/14/2005	19	12/14/2005	18	12/14/2005	19
2006 -2007	2/5/2007	19	2/5/2007	19	2/5/2007	19
2007 -2008	1/3/2008	19	1/3/2008	18	1/3/2008	19
2008-2009	12/19/2008	18	12/22/2008	18	12/22/2008	19
2009-2010	12/29/2009	18	1/4/2010	18	12/29/2009	19
2010-2011	1/24/2011	19	12/15/2010	18	12/15/2010	19
2011-2012	1/21/2012	18	1/4/2012	18	1/3/2012	19
2012-2013	1/24/2013	19	1/23/2013	18	1/23/2013	19
2013-2014	1/7/2014	19	1/7/2014	18	1/7/2014	19
2014-2015	1/7/2015	19	1/8/2015	18	1/7/2015	19
2015-2016	2/15/2016	19	1/19/2016	18	1/4/2016	19
2016-2017	12/15/2016	18	1/9/2017	18	12/15/2016	19
2017-2018	1/6/2018	19	1/5/2018	18	1/5/2018	19

These are the dates and times of each Transmission District's peak load grouped by Summer/Winter Capability periods

- Use previous 4 like capability periods excluding the shoulder months

Let's Review



If a plant is in the Central Hudson Transmission District and is doing a test in the Winter of 2016/2017, what are the four dates that would apply to the temperature correction?

Winter Capability Period

Dec 1 - Mar 30	Central Hudson	
	Date	Hour Ended
1996 -1997	1/17/1997	18
1997 -1998	12/10/1997	18
1998 -1999	1/14/1999	18
1999 -2000	1/17/2000	19
2000 -2001	1/2/2001	19
2001 -2002	1/2/2002	17
2002 -2003	1/23/03, 1/27/03 @ HE 19	
2003 -2004	1/15/2004	19
2004 -2005	12/20/2004	19
2005 -2006	12/14/2005	19
2006 -2007	2/5/2007	19
2007 -2008	1/3/2008	19
2008-2009	12/19/2008	18
2009-2010	12/29/2009	18
2010-2011	1/24/2011	19
2011-2012	1/21/2012	18
2012-2013	1/24/2013	19
2013-2014	1/7/2014	19
2014-2015	1/7/2015	19
2015-2016	2/15/2016	19

Resource Specific Test Conditions



Criteria for Combustion Resources

- Sustained maximum net output for 1 hour (top-of-hour to top-of-hour)
- Corrected for temperature
 - Average ambient temperature at time of Transmission District's peak during previous 4 like capability periods excluding the shoulder months
 - For Winter: exclude November and April
 - For Summer: exclude May and October
 - Temperature from approved weather station or auditable recording device at the generator site

*Refer to ICAP Manual Section 4.2.2



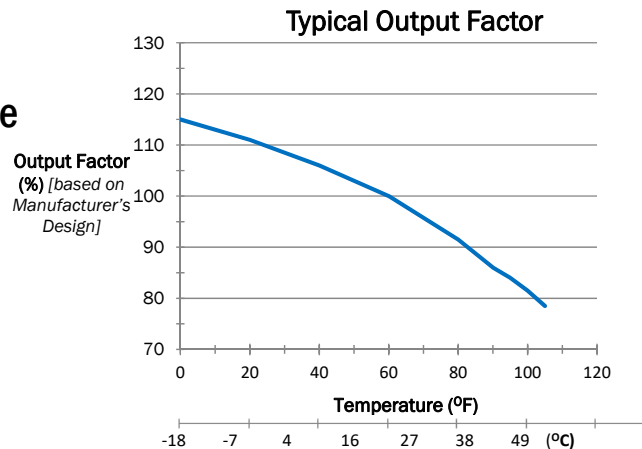
Average Ambient Temperature and Corrected MW Value

Combustion Turbine Example



Temperature Corrected MW Value

$$\text{Corrected Test MW} = \frac{\text{Uncorrected Test MW}}{\text{Output Factor @ Test Temp}} * \text{Output Factor @ Historical Average Ambient Temp}$$



Average Ambient Temperature and Corrected MW Value



Combustion Turbine Example

Uncorrected Test MW: 100 MW

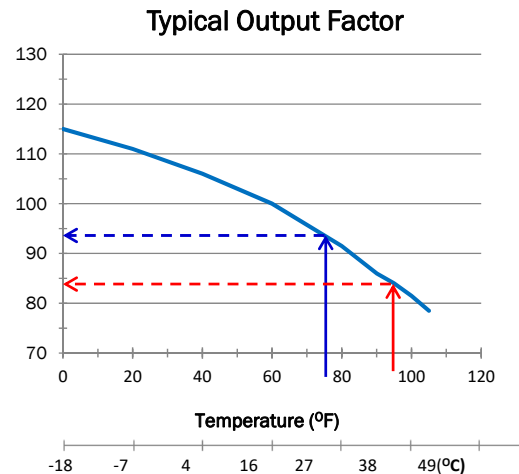
Test Temperature: 75° F

Output factor at Test Temperature = 94.5%

Desired (Historical Average Ambient) Temperature: 95° F

Output factor at Average Ambient Temperature = 84.5%

Output Factor (%) [based on Manufacturer's Design]



$$\begin{array}{l}
 \text{Corrected Test MW} = \\
 \frac{\text{Uncorrected Test MW}}{\text{Output Factor @ Test Temp}} * \text{Output Factor @ Historical Average Ambient Temp} \\
 \frac{100\text{MW}}{0.945} * 0.845 = \boxed{89.4 \text{ MW}}
 \end{array}$$

Resource Specific Test Conditions



Criteria for Energy Limited (ELR) and Capacity Limited Resources (CLR)

- Sustained Maximum net output averaged over 4 consecutive hours
 - Integrated hourly average at top of each hour
 - Exceptions are Combustion Resources which will use a sustained net output for 1 hour

*ICAP Manual Section 4.2.2

Resource Specific Test Conditions



- **Criteria for other Intermittent Power Resources**
 - Includes Wind Farms, Landfill Gas and Solar
 - DMNC is entered as combined nameplate capacity of all units in each station net of station service Load

- **Criteria for Limited Control Run-of-River Hydro Resources (LCRoR)**
 - DMNC is entered as combined nameplate capacity of all units in each PTID net of station service Load

*Refer to ICAP Manual section 4.2.2

Resource Specific Test Conditions



- **Criteria for Special Case Resources (SCR)**
 - 1 hour Performance Test once each Capability Period
 - Date and time specified by NYISO:
 - For Summer Capability Test Period Aug 15 - Sept 9
 - For Winter Capability Test Period Feb 15 - Mar 7
 - Performance should demonstrate maximum enrolled MW value in the whole Capability Period
 - NYISO will accept the higher of SCR's greatest load reduction in a first performance test hour or in a mandatory event hour
 - SCR enrolled with an Incremental Average Coincident Load (ACL) or a SCR Change of Status may also be required to perform in the second performance test within the Capability Period

*ICAP Manual Section 4.12

Resource Specific Test Conditions



■ Criteria for Behind-the-Meter Net Generation (BTM:NG) Resources

- Dependable Maximum Gross Capability (DMGC) test or actual production data
 - DMNC allowed if station service is netted out
- Required duration of test is contingent on the BTM:NG resource type
- Adjusted DMGC calculated and used in Net ICAP calculation

**Refer to ICAP Manual Sections 4.2 and 4.15*

Resource Specific Test Conditions



■ Criteria for External Resources

- External Generators
 - DMNC test data or equivalent will be verified with the External Control Area
 - All External Generators are subject to the same DMNC requirements as internal generators
- Control Area System Resources
 - Control Area Resource and Load (CARL) Data

**Refer to ICAP Manual Sections 4.2, 4.4.3, 4.10 and 4.14*

Let's Review



Which of the following facilities requires test data of four sustained consecutive hours:

- a) Fossil, Combustion Turbine, Hydro
- b) Fossil, Combined Cycle, Hydro, Nuclear
- c) Combustion Turbine, Hydro, Nuclear
- d) Fossil, Hydro, Gas Turbine

Let's Review



Which of the following facilities require a temperature correction applied to test data:

- a) Fossil, Hydro
- b) Fossil, Hydro, Nuclear
- c) Combustion Turbine, Combined Cycle
- d) Combustion Turbine, Combined Cycle, Hydro

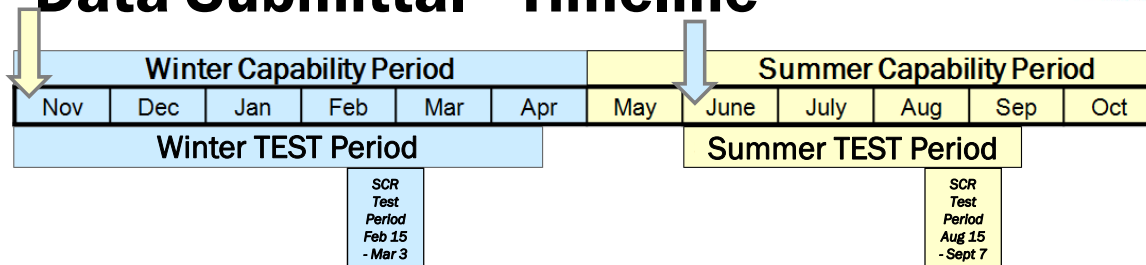
Submitting Capability Period Test Data

Timeline and Method

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Data Submittal - Timeline



- Summer test submittal deadline: 60 days after end of test period - Currently Nov 15
- Winter test submittal deadline: 60 days after end of test period - Currently June 15
- Exceptions to this for Special Case Resources (SCR)
 - Deadline is on or before 5:00 PM 75 Days after a test or an event
 - ICAP Manual Section 4.12.4.8

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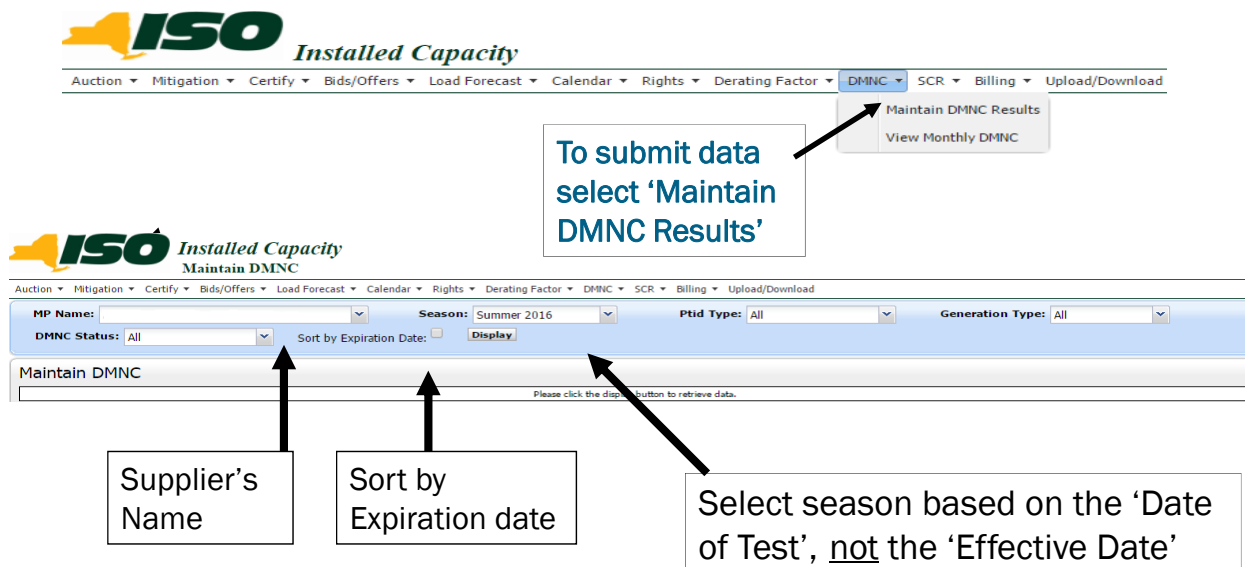
40

Data Submittal - Method

- **Submit data electronically via the ICAP Automated Market System (AMS)**
 - Can enter, maintain or view data online
 - Refer to
 - ICAP Manual for requirements
 - ICAP AMS User Guide Section 11 for entry directions

- **Exceptions to this for Special Case Resources (SCR)**
 - SCR submits performance data in Demand Response Information System (DRIS)
 - ICAP Manual Section 4.12.4.8

Submitting Test Data



The screenshot shows the 'Maintain DMNC' page in the ISO Installed Capacity system. The navigation menu includes: Auction, Mitigation, Certify, Bids/Offers, Load Forecast, Calendar, Rights, Derating Factor, **DMNC**, SCR, Billing, and Upload/Download. The 'DMNC' dropdown menu is open, showing 'Maintain DMNC Results' and 'View Monthly DMNC'. A callout box points to 'Maintain DMNC Results' with the text: 'To submit data select 'Maintain DMNC Results''. Below the navigation, the page title is 'Maintain DMNC'. The search filters include: MP Name (dropdown), Season (Summer 2016), Ptid Type (All), and Generation Type (All). There is a 'DMNC Status: All' dropdown, a 'Sort by Expiration Date:' checkbox, and a 'Display' button. A callout box points to the 'Display' button with the text: 'Select season based on the 'Date of Test', not the 'Effective Date''. Another callout box points to the 'Sort by Expiration Date:' checkbox with the text: 'Sort by Expiration date'. A third callout box points to the 'MP Name' dropdown with the text: 'Supplier's Name'. At the bottom of the page, there is a note: 'Please click the display button to retrieve data.'

Submitting Test Data



Auction • Mitigation • Certify • Bids/Others • Load Forecast • Calendar • Rights • Derating Factor • DMNC • SCR • Billing • Upload/Download

MP Name: Season: Winter 2018-2019 PTID Type: All Generation Type: All DMNC Status: All Sort by Expiration Date: Display

PTID Type:
All
Internal
External
SCR

Generation Types:
All
Combined Cycle
Combustion
Energy Limited
Fossil Fuel
Hydro
Intermittent
Nuclear Steam
Other

Use the filter above to access a list of relevant units

Submitting Test Data



4 yr. Avg Amb temp for peak day & hr of like season for TO where Gen resides (combustion & combined cycle only)

Test Temp at top of hr at start of test at gen site (Combustion & Combined Cycle only)

Rating determined using manufacturer's temp adjust (combustion & combined cycle only)
• Temp adjust hourly readings then average them

Actual DMNC/DMGC rating
• If > pre-test—red
• If out of period—blue

Remarks

Add DMNC

PTID Name	Date of Test	Begin Hour	Avg Amb Temp (°F)	Pre Test Rating (Mw)	Test Temp (°F)	Hour 1 (Mw)	Hour 2 (Mw)	Hour 3 (Mw)	Hour 4 (Mw)	Per Curve (Mw)	Post Test Rating (Mw)	Effective Date	Remarks
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Save:

PTID Name:
Drop down list of all PTIDs associated with Supplier

Begin Hour
Previous post test rating
• Auto defaulted value

MW output to grid
• Integrated hourly average starting at top of each required hour

Effective Date – select first day of month the test is to be effective using calendar icon-
• Cannot be same day as test date
• Cannot be for month spot market has already run
• Must be >the system date
• Must be approved prior to certification close

"Add DMNC" allows input of DMNC data.

NYISO Review & Approval Steps



- **Submitted Resource Capability data is reviewed for completeness**
 - Determined within 10 days of receipt
- **Data is validated by NYISO**
 - Up to 40 days after submission (10 day determination + 30 Day review)
- **Resource Capability data rating validated and approved by the NYISO will be marked as either “approved” or “rejected”**
- **Approved data valid for:**
 - Balance of current period
 - Subsequent like Capability Period
 - Out-of-Period, as applicable
- **Non-NYCA Generators**
 - ICAP Supplier has same submission obligations
 - Data submitted will be verified with External Control Area operator

Let's Review



For an ICAP System submittal, the date entered in the ‘Effective Date’ field may represent:

- a) The start date of the test
- b) The completion date of the test
- c) The current test period end date
- d) The date the test was submitted in the ICAP AMS
- e) The start of the next like Capability Period for which the test was conducted

Let's Review



Maintain DMNC

Generation Type	PTID Type	PTID Name	Date of Test	Beg Hour	Avg Amb Temp (°F)	Pre Test Rating (Mw)	Test Temp (°F)	Demonstrated MW				Average (Mw)
								Hour 1 (Mw)	Hour 2 (Mw)	Hour 3 (Mw)	Hour 4 (Mw)	

For the combined cycle and combustion units, which field would be used to enter the 4 year average temperature for the peak day and hour of the like Capability season for the Transmission District where the generator resides?

- a) Avg Amb Temp (deg F)
- b) Pre Test Rating (MW)
- c) Test temp (deg F)
- d) None of the above

DMNC/DMGC Expiration



Installed Capacity



Auction ▾ Mitigation ▾ Certify ▾ Bids/Offers ▾ Load Forecast ▾ Calendar ▾ Rights ▾ Derating Factor ▾ DMNC ▾ SCR ▾ Billing ▾ Upload/Download

To view data select 'Maintain DMNC Results'

Expiration Date - Date the rating will expire, at 11:59:59 PM

Days to Expiration - Days remaining before the value will expire

Status
 • Approved by NYISO
 • Rejected by NYISO
 • Undecided—yet to be acted on

Maintain DMNC								Demonstrated MW								Status										
Generation Type	PTID Type	PTID Name	Test Type	Date of Test	Beg Hour	Avg Amb Temp (degF)	Pre Test Rating (Mw)	Test Temp (degF)	Hour 1 (Mw)	Hour 2 (Mw)	Hour 3 (Mw)	Hour 4 (Mw)	Average (Mw)	Per Curve (Mw)	Post Test Rating (Mw)	Difference (Post-Pre)	Effective Date	Expiration Date	Days to Expiration	Remarks	Approved	Rejected	Undecided	Last Updated By	Last Update Date	Delete

Please click the display button to retrieve data.

- The “Days to Expiration” field is color coded
 - Green: > 30 days
 - Yellow: Between 30 and 1
 - Red: Test Rating expired
- ICAP System sets the Expiration Date when the test rating is Approved

Non-Compliance

- Requirements must be met to be and remain qualified as an ICAP Supplier
- Examples of non-compliance associated with Resource capability testing
 - Not submitting data before submittal deadline
 - Validated in-period test data does not meet or exceed out-of-period test rating used at the start of the Capability Period
- Deficiency charge may apply – Market Administration and Control Area Services Tariff (MST) Sections 5.12.8 and 5.14.2
 - Penalties and sanctions will be covered in more detail in the ICAP Market Sanctions & Deficiency Module

Summary

- Identify three ways Resource Capability may be determined
- Identify the purpose of Resource Capability data
- Explain the difference between DMNC and DMGC
- Identify the requirements and resource specific criteria for testing
- Describe the submittal process for Resource Capability data
- Identify non-compliance associated with test data submittal

References

- **Market Services Tariff (MST)**
- **NYISO Installed Capacity Manual**
- **ICAP AMS User's Guide**
- **Market Participant User's Guide (MPUG)**
- **Transmission and Dispatching Operations Manual**
- **Accounting and Billing Manual**
- **TB 155 - Special Settlement Rules for Generators Conducting Certain Scheduled Steady State Tests**