



NORTHEAST POWER COORDINATING COUNCIL, INC.  
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June 13<sup>th</sup>, 2016

**Subject:**

**TFCP Criteria Clarification for NPCC Directory#1 *Design and Operation of the Bulk Power System:***

**TFCO Criteria Clarification for NPCC Directory#5 *Reserve:***

Attached for your review and comment are **two** NPCC Task Force Criteria Clarifications:

**Directory#1 *Design and Operation of the BPS:***

The Task Force on Coordination of Planning (TFCP) has rendered a clarification on the criteria governing the Area Review of Resource Adequacy as outlined in Criteria Requirement R4 and Appendix D of Directory#1.

The TFCP clarification provides guidance on the calculation of available resources and the treatment of capacity backed purchases as part of these calculations.

**Directory#5 *Reserve:***

The Task Force on Coordination of Operation (TFCO) has provided a clarification on the criteria within Directory#5 that addresses the use of certain storage technology as **synchronized reserve**.

The TFCO clarification explains that storage resources with inverter technology may be considered as **synchronized reserve** provided they meet the other criteria governing such resources as outlined in Directory#5 (i.e. sustainability).

**Comment Period:**

In accordance with the NPCC *Directory Development and Revision Manual* comments on each clarification will be received for forty five days through July 28<sup>th</sup>, 2016.

The NPCC Open Process Review for these Task Force Clarifications can be accessed through the following links:

**Directory#1:**

<https://www.npcc.org/Standards/SitePages/NonStandardsList.aspx>

**Directory#5:**

<https://www.npcc.org/Standards/SitePages/NonStandardsList.aspx>

Subsequent to comment review and Task Force approval each Clarification will be presented to the Reliability Coordinating Committee (RCC) for final approval.

Please contact me with any questions regarding Directory content or commenting procedures.

Thank you.

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## NPCC Request for Criteria Clarification

**Note: a Clarification cannot be used to revise the Criteria within a Directory.**

Request for a Clarification of Criteria	
Date submitted: March 18, 2016	
Revised: May 19th, 2016	
<b>Contact information for person requesting the clarification:</b>	
Name:	James Pigeon
Organization:	NYISO
Telephone:	518-356-7649
E-mail:	Jpigeon@nyiso.com
<b>Identify the Directory that contains the Criteria requiring clarification:</b>	
Directory Number :	<b>Directory #5</b>
Directory Title:	Reserve
<b>Identify specifically what portion of the Criteria needs clarification:</b>	
Section 5.5 Requirement for Synchronized Reserve Available Within Ten Minutes	
Text of Requirement:	
“Requirements for synchronized reserve available within ten minutes for NPCC Balancing Authorities shall be based on demonstrated performance. The requirements shall not be more than 100% or less than 25% of the ten-minute reserve requirement.”	

The NPCC Glossary of Terms defines synchronized reserves as:

*“The unused portion of generating capacity which is synchronized to the system and ready to pick up load to claimed capacity and capacity which can be made available by curtailing pumping hydro units.”*

**The NYISO would like clarification if a storage resource with inverter technology would qualify to provide synchronized reserve.**

**Identify the material impact associated with the lack of clarity:**

Identify the material impact to your organization or others caused by the lack of clarity or an incorrect interpretation of this Directory:

**Storage projects are currently being proposed in New York and the developers are inquiring what services and markets the resource may participate in.**

**The NYISO is looking to ensure it remains compliant with meeting or exceeding NPCC reliability rule requirements and finds the requirements unclear regarding obtaining synchronous reserves from storage resources.**

## Task Force Response to Request for Criteria Clarification: Directory #5 for the NYISO

The following clarification of the criteria in Directory#5 Reserve was developed by the Task Force on Coordination of Operation (TFCO).

### Question:

**The NYISO would like clarification if a storage resource with inverter technology would qualify to provide synchronized reserve.**

### TFCO Response to Question (Criteria Clarification):

*The TFCO recognizes that energy-producing technologies which do not depend on the start of a steam, gas or hydraulic driven turbine which connects to the power system through an electrical inverter are not subject to the failure modes that impact the ability of turbine-driven resources to be reliably utilized when needed.*

*A storage resource with inverter technology complies with the original intent of the synchronized reserve requirement and therefore shall qualify towards a BA's complement of synchronized reserves.*

*It should be noted that these resources must meet the sustainability requirements as described in NPCC Directory #5 Reserve Section 5.13 (i.e. be sustainable for at least 1 hour from the time of activation) and all the applicable requirements listed in its Section 5.14 a through g.*