OP-21 Operational Surveys, Energy Forecasting & Reporting, and Actions During an Energy Emergency

Edits to Generator Winter Readiness Survey

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OP-21 Overview of Current Procedure & Proposed Changes

Proposed Effective Date: October 8, 2021

- The current OP-21 documents the processes, and establishes requirements for ISO to:
  - Collect fuel availability and environmental limitation information for applicable resources;
  - Forecast and report on expected energy availability over a 21-day look ahead period;
  - Declare Energy Alerts and Energy Emergencies;
  - Take appropriate action in anticipation of, or during, an Energy Alert or Energy Emergency;
  - Communicate with applicable parties with respect to resource fuel availability and environmental limitations
  - Collect information related to winter readiness for each Generator Asset
  - Collect information related to natural gas pipeline system critical infrastructure

Proposed Changes

- ISO is proposing adding additional questions to the Generator Winter Readiness Survey in order to enhance its awareness of potential impacts on generator availability due to extreme cold weather and precipitation
- ISO would like to have these additional questions in place prior to the distribution of this year's Generator Winter Readiness Survey which is due to be distributed by 11/1/21

OP-21, Section V.B

Section	New Question #	New Question Text
OP-21, Section V.B Survey Questions	2	Below what ambient temperature (°F) is it expected that this Resource would no longer be able to continue operating from an online state?
	5	For natural gas-fired generators, does this Resource hold firm capacity rights on the applicable natural gas pipeline with a path from a supply source to the meter for this Resource? If yes, please provide additional clarifying information as necessary to explain the nature of those rights, including the quantity, source, and transportation path of natural gas.
	6	For natural gas-fired generators, have arrangements been made, or will they be made, to source gas for this Resource from alternate supply sources (e.g. LNG supply from Distrigas, Canaport, or Excelerate). If yes, please provide additional clarifying information as necessary to explain the nature of arrangements that have been made, or when alternate gas supply arrangements are expected to be made, including quantity and source of natural gas.
	7	For dual-fuel capable Resources, is there a known ambient temperature below which the ability of the Resource to switch fuel sources or operate on its alternate fuel is impacted? If yes, please provide the temperature (°F) and describe the nature of the impact(s).

OP-21, Section V.B (continued)

Section	New Question #	New Question Text
OP-21, Section V.B Survey Questions	8	For solar generators, does your Resource have a mechanism for de-icing and snow removal? If yes, with the understanding that each event is unique, please describe the nature of the mechanism including how quickly it is anticipated generation capability would typically be restored following the loss of capability. If the Resource does not have such mechanism, please describe why one is not believed to be necessary.
	9	For wind generators, does your Resource employ any equipment that mitigates the impact of cold weather on the Resource (i.e a cold weather package)? If yes, please describe the nature of the equipment, including changes to the Resource's operating capabilities if the equipment were unavailable. If the Resource does not have any such equipment, please describe why it is not believed to be necessary.
	10	For wind generators, does your Resource have a mechanism for de-icing the turbines or preventing of turbine icing from occurring? If yes, with the understanding that each event is unique, please describe the nature of the mechanism including how quickly it is anticipated generation capability would typically be restored following the loss of generation capability. If the Resource does not have such a mechanism, please describe why one is not believed to be necessary.

The following footnote was also added:

- A mechanism could consist of a system of equipment, process, procedure, or any combination thereof

OP-21, Section V.B (continued)

Section	New Question #	New Question Text
OP-21, Section V.B Survey Questions	14	By what date ~~do you normally plan to complete~~ are the actions described in such winter weather preparation procedure planned to be completed?
	20	If the Resource does not have a specific winter weather preparation procedure in place, please describe why ~~one may not be~~ it is believed one is not necessary.

OP-21, All Sections

- Minor grammatical issues addressed throughout
  - No change to requirements or intent

Conclusion

- Recent winter events throughout the country have continued to highlight the need for enhanced awareness of impacts on generator availability resulting from extreme cold weather and precipitation
- ISO's proposed questions will provide additional insight for regarding generator capabilities during extreme cold weather and precipitation events
- This additional information gathered from responses to ISO's proposed questions will enhance the OP-21 Energy Emergency Forecasting and Reporting process

Stakeholder Schedule

Stakeholder Committee and Date	Scheduled Project Milestone
Reliability Committee August 17, 2021	Introduction and description of changes
Reliability Committee September 1, 2021	Review of redline OP changes
Reliability Committee September 21, 2021	Vote on changes
Participants Committee October 7, 2021	Vote on changes

Questions

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