



# Annual Generator Winterization Survey for 2022

Reliability Subcommittee

January 28, 2022

# Purpose & Key Takeaways



## Purpose:

Discuss Potential Winterization Survey Changes

## Key Takeaways:

- Previous survey changes resulted in highest response rate ever
- Proposed survey improvements are aimed at gathering additional data and improving user experience
- 2022 Survey Timeline begins in August

# Previous Survey Changes Review

- Eliminated over 50% of questions to focus on quantitative and forward-looking questions
- Single combined generator and gas survey
- No need to submit if data unchanged from 2020
- Can complete survey for all units at a single station and submit for entire station vs. each unit separately
- Spreadsheet option

Response rate as % of MW	Generator Winterization	Gas Fuel Specific Questions <sup>1</sup>
2021	90%	91%
2020	71%	83%
2019	60%	72%

# Potential Survey Improvements

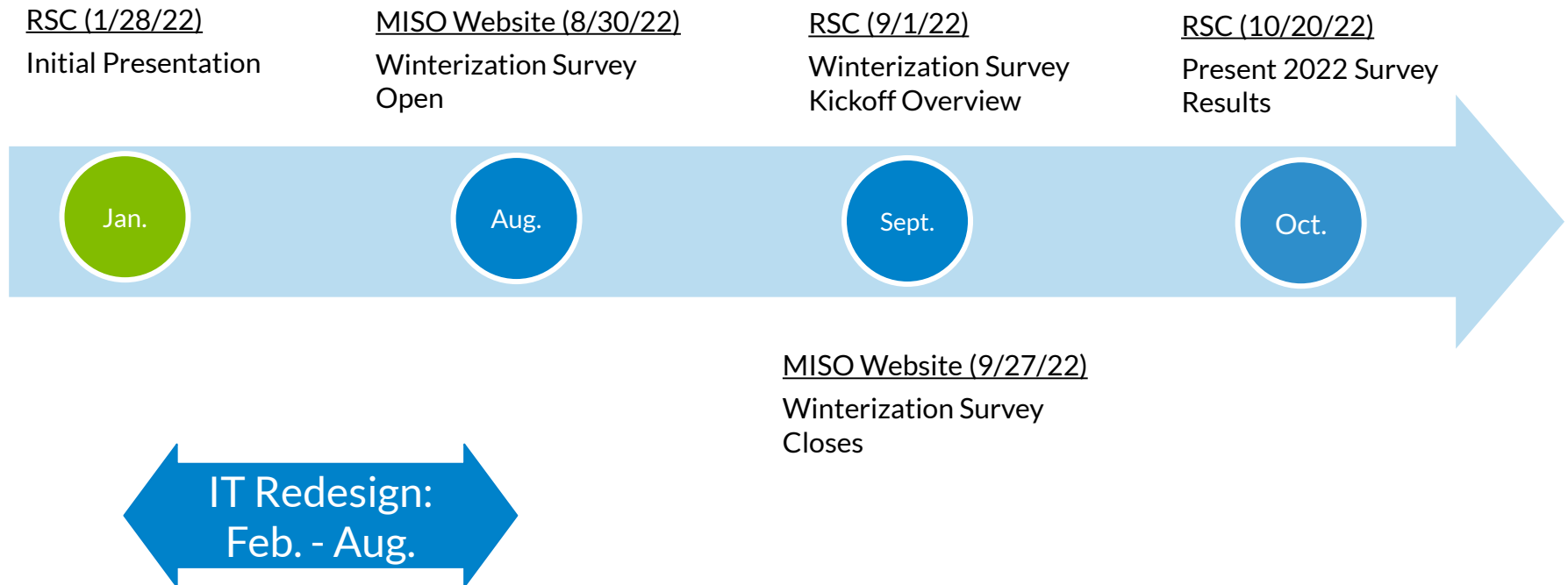
## Web Survey Interface

- Landing page redesign to show all units associated with the Market Participant (MP)
- Status of response for each owned generation unit (complete, in progress, incomplete)
- MPs with a large number of units will be able to use a prepopulated Excel file similar to last year's survey

## Survey Questions

- Review of current questions to decide which questions to retain, revise, retire or add
- Additional temperature question to identify start-up temperature of each unit

# 2022 Survey Timeline



# Stakeholder Feedback Request

MISO is requesting feedback on the **Annual Generator Winterization Survey for 2022**:

- Please provide interface improvement suggestions/requests.
- Please provide survey question change suggestions/requests.
- Please provide suggestions on wording and other considerations for a temperature start-up question.

MISO requests this feedback by **Thursday, February 10, 2022**

Feedback requests and responses are managed through the Feedback Tool on the MISO

website: <https://www.misoenergy.org/stakeholder-engagement/stakeholder-feedback/>

# Contact Information

- Mike Mattox ([mmattox@misoenergy.org](mailto:mmattox@misoenergy.org))
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# Appendix



# 2021 Survey Questions

## MISO 2021-2022 Generator Winterization Survey

Please complete and submit one survey for each Generation Facility/Station you manage. If more than one Generation Facility is managed by your company, you will need to submit multiple surveys.

**NOTE: All new or updated information will be lost if the Cancel button is clicked or the browser is closed before the survey is submitted.**

An example and instructions clarifying the survey format can be found [here](#).

**Survey Deadline is September 28th, 2021.**

\* Indicates a required field

First Name

\*

Last Name

\*

Company

\*

Phone Number

\*

Email

\*

What LBA is the plant in?

\*

What station?

\*

Generator/Unit name(s) [?]

\*

Please select a LBA and Station.

# 2021 Survey Questions

Does the resource have a plan to prepare for winter or have all known actions to prepare already been taken?

\* ☒ Yes ☐ No

What ambient air temperature can the plant reliability operate at for an extended period of time, i.e. >24 hours. Please provide your best estimate based on design temperature, historical operating temperature or current cold weather performance temperature determined by an engineering analysis.

☒ Temperature limit is known

\*Temperature

\*Units

Fahrenheit ▼

☐ Temperature limit is unknown

☐ There is no temperature that impacts operation

Has plant management and/or maintenance personnel reviewed the current NERC Guideline Generator Unit Winter Weather Readiness – Current Industry Practices?

\* ☒ Yes ☐ No

Is there a corporate or plant procedure for an extreme cold weather event or have all known actions to prepare already been taken?

\* ☒ Yes ☐ No

Fuel Type

\*

MPAbbreviation

\*

Max Output

\*

Unit Type

\*

Please provide any lessons learned from prior winter season(s), concerns you have for the upcoming winter season, or additional information related to your survey responses you would like to provide.

# 2021 Survey – Gas Specific Questions

## Units/Generators

Please complete the following for the unit(s) at the Facility

## Gas Specific Questions

Select the Interstate or Intrastate pipeline(s) that is directly connected to the Station. If not applicable or not listed, select 'None'. If connected to multiple sources and one is not listed, select what is available and proceed with the Survey. A subsequent question will provide the opportunity to detail sources not listed.

[?]

- ☐ Acadian
- ☐ American Midstream (MidLa)
- ☐ Bison
- ☐ Destin
- ☐ Enable
- ☐ Fayetteville Express
- ☐ Great Lakes Gas Trans. Ltd
- ☐ Gulf Crossing
- ☐ Kinder Texas
- ☐ KM Louisiana
- ☐ Midcontinent Express
- ☐ Natural Gas PL Co. of America
- ☐ Northern Natural Gas
- ☐ Panhandle Eastern PL
- ☐ Sabine
- ☐ Southern Star Central
- ☐ Texas Eastern Pipeline
- ☐ Transcontinental Pipeline
- ☐ Trunkline Gas
- ☐ Viking Gas Transmission
- ☐ None
- ☐ Alliance
- ☐ ANR Pipeline Co.
- ☐ Columbia Gulf
- ☐ Egan Hub Storage
- ☐ ETC-Tiger
- ☐ Florida Gas
- ☐ Guardian Pipeline
- ☐ Gulf South
- ☐ Kinder Tejas
- ☐ Midwestern Gas Trans.
- ☐ Mississippi River Transmission Corp
- ☐ Northern Border
- ☐ Ozark
- ☐ REX
- ☐ Southeast Supply Header
- ☐ Tennessee
- ☐ Texas Gas Transmission
- ☐ Trans-Union
- ☐ Vector
- ☐ Williston Basin Interstate PL

Select the Local Distribution Company (LDC) or Gas utility that is directly connected to the Station. If not applicable or not listed, select 'None'. If connected to multiple sources and one is not listed, select what is available and proceed with the Survey. A subsequent question will provide the opportunity to detail sources not listed.

[?]

- ☐ Alliant (WI P&L)
- ☐ Ameren IL
- ☐ Blackhills
- ☐ Citizens Gas
- ☐ DTE Gas (MichCon)
- ☐ Liberty Utilities
- ☐ MidAmerican
- ☐ NIPSCO
- ☐ SIGECO
- ☐ We Energies
- ☐ Wisconsin Public Service
- ☐ Alliant (Inter. P&L)
- ☐ Ameren Missouri
- ☐ Centerpoint Energy
- ☐ Consumers
- ☐ Entergy New Orleans
- ☐ Madison Gas and Electric
- ☐ Minnesota Energy Resources
- ☐ SEMCO
- ☐ Vectren
- ☐ Wisconsin Gas
- ☐ None

# 2021 Survey – Gas Specific Questions

If applicable, what other gas system is the Station directly connect to that was not previously listed?

[?]

(Optional) If known and applicable, what is the primary upstream supply pipeline for the LDC? (What pipeline influences your Station or LDC Operations the most?)

[?]

What type of Transportation is used to serve this Station?[?]

\*

Does the Station have a No-Notice Service? i.e., a service that allows the generator to come online prior to gas being nominated. Or, the ability to pull gas after nomination cycles have closed.

[?]

\*

Does the Station have a Non-Ratable Take or Batch Service? i.e., a service that allows the generator to pull gas outside of a 1/24th take. For example, if a plant is only needed for 6 hours and thus consumes gas over these 6 hours instead of 24, is hourly swing flexibility available?

[?]

\*

Does the Station subscribe to a Storage Service?

\*

If you are finished with this Station, click the **Submit** button. For additional stations in your portfolio, please complete another survey.

Submit

Cancel