Manual 14-D – Generator Operations
Cold Weather Reporting Requirements

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Sr. Lead Engineer, Generation
Reliability Standards & Compliance Subcommittee
August 18, 2022
# Manual 14-D, Generator Operational Requirements Revisions

## Committee

<table>
<thead>
<tr>
<th>Generation Deactivation Quick Fix (Rev. 59) Effective Date: 9/5/2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOS</td>
</tr>
<tr>
<td>OC</td>
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<tr>
<td>MRC</td>
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</tbody>
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## Hybrid & Co-located Resources (Rev. 60) Effective Date: 10/1/2022

| DIRS | Jun. 6/20 |
| --- |
| SOS | Jun. 7/7 | Jul. 8/3 |
| OC | Jun. 7/14 | Jul. 8/11 |
| MRC | Jun. 8/24 | Jul. 9/21 |

## Cold Weather Reporting Requirements (Rev. 61) Effective Date: 10/1/2022

| SOS | Jun. 8/3 | Jul. 9/1 |
| --- |
| OC | Jun. 8/11 | Jul. 9/8 |
| MRC | Jun. 8/24 | Jul. 9/21 |

## Periodic Review (Rev. 62) Effective Date: 12/1/2022

| SOS | Nov. 9/29 | Dec. 10/28 |
| --- |
| OC | Nov. 10/7 | Dec. 11/3 |
| MRC | Nov. 10/24 | Dec. 11/16 |

**Note:** The will be an additional revision with changes related to FRBSR stakeholder process. The timing is still TBD.
<table>
<thead>
<tr>
<th>Action Required</th>
<th>Deadline</th>
<th>Who May Be Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review and update unit operating parameters in advance of forecasted cold weather, including Generating Facility cold weather operating temperature limit.</td>
<td>When Advisory is Issued or as needed</td>
<td>Generation Owners and designated agents.</td>
</tr>
</tbody>
</table>
Background

- Generator Operators determine lowest ambient temperature to which plants can reliably operate
- Generator Operators to provide these limits to their Balancing Authority (BA) and Reliability Coordinator (RC)
- Balancing Authority (BA) and Reliability Coordinator (RC) to incorporate these limits in their operating plans
- **Tie in to NERC Project 2019-06 – Cold Weather**

FERC/NERC joint report on MISO cold weather operations January, 2018 recommendations

Primary Drivers

- Changes Driven by NERC Project 2019-06 – Cold Weather

<table>
<thead>
<tr>
<th>Effective Date</th>
<th>Standards</th>
</tr>
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<tbody>
<tr>
<td>4/1/2023</td>
<td>EOP-011-2 Emergency Preparedness and Operations</td>
</tr>
<tr>
<td>4/1/2023</td>
<td>IRO-010-4 Reliability Coordinator Data Specification and Collection</td>
</tr>
<tr>
<td>4/1/2023</td>
<td>TOP-003-5 Operational Reliability Data</td>
</tr>
</tbody>
</table>

https://www.nerc.com/pa/Stand/Pages/Project%202019-06%20Cold%20Weather.aspx
Section 7.3.5: Fuel, Emissions and Operational Data Reporting

- Generation Owners or designated agents shall update Markets Gateway with unit specific resource limitations associated with cold weather preparedness, including:
  - Generator capability and availability
  - Fuel supply and inventory concerns
  - Fuel switching capabilities
  - Environmental constraints
• Section 7.3.5: Fuel, Emissions and Operational Data Reporting
  – **New Requirement**
    • Generating Facility minimum design temperature
      – New field being added to Markets Gateway to capture Generating Facility design temperature.
      – Additional information can be communicated with an Informational eDART Ticket
  
• Attachment N: Cold Weather Preparation Guideline and Checklist
  – Added recommendation to take into account the effects of precipitation and wind during cold weather preparation.
Timeline

Second Reads/ Endorsements

- Sep.1 SOS
- Sep.8 OC
- Sep.21 MRC

Manual First Reads

- Aug.3 SOS
- Aug.11 OC
- Aug.19 RSCS
- Aug.24 MRC

2022

Aug.11 OC

Sep.1 SEP.

Oct.1, 2022 Effective Date

Aug.19 RSCS

Aug.24 MRC

AUG.

Sep.1 SOS

Sep.8 OC

Sep.21 MRC

SEP.
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Manual 14D – Generator Operational Requirements
Cold Weather Reporting Requirements

Member Hotline
(610) 666 – 8980
(866) 400 – 8980
custsvc@pjm.com
PROTECT THE POWER GRID
THINK BEFORE YOU CLICK!

Be alert to malicious phishing emails.

Report suspicious email activity to PJM.
(610) 666-2244 / it_ops_ctr_shift@pjm.com
Appendix
Periodic Data Request Applicability

Generating Facility Minimum Operating Temperature Data Request

- Originally based on joint NERC/FERC report on MISO cold weather event in January 2018
- Also accounts for lessons learned from ERCOT cold weather event
- Focused on low ambient operating temperature limits
- Follow up to data requests issued in 2020 and 2021
- Applicable to generating resources that have not previously provided the data to PJM
Generating Facility Minimum Operating Temperature Data Request

- Intended to collect design temperature data
- Data Requests to be initiated in eDART
  - One specific to wind and solar units
  - One specific to all other units
- Open from 4/15/22 to 6/30/22