Introduction

This procedure outlines responsibilities of Reliability Coordinators (RCs) serving as Geomagnetic Disturbance (GMD) monitors in the North American Interconnections. Changes to this reference document will be at the direction of the Reliability and Security Technical Committee (RSTC) with the participation of the Real Time Operating Subcommittee (RTOS).

This document applies to current and future GMD related procedural responsibilities assigned to the GMD monitor as outlined in NERC Reliability Standards (EOP-010).

Designation of GMD Monitor

There will be one GMD monitor within each Interconnection. NERC RTOS will nominate a GMD monitor for each Interconnection. The RTOS will notify the NERC RSTC at its December meeting of the designated GMD monitors for the next two GMD monitor terms.

The term of each GMD monitor shall be one (1) year. With the exception of the Eastern and Western Interconnections, the GMD monitor term shall be automatically renewed unless requested otherwise by providing a minimum of six (6) months’ notice to the NERC RTOS. The Eastern and Western Interconnection GMD Monitors will rotate on an annual basis as outlined below. Should an existing or future GMD monitor no longer be willing or able to fulfill its responsibilities, the NERC RSTC will direct the NERC RTOS to nominate a replacement and communicate the transition plan.

If a GMD monitor fails to fulfill its responsibilities, the NERC RTOS will work with the GMD monitor to resolve the problem. The NERC RTOS will submit a report to the NERC RSTC either identifying corrective measures taken or provide a recommendation for a new GMD monitor.

Responsibilities of the GMD Monitor

The GMD monitors will receive GMD watches, alerts, and warnings through subscription to Space Weather Prediction Center (SWPC) emails. All K-7 or higher GMD warnings and alerts shall be routed by established procedures to operating entities within the applicable Interconnection. The SWPC is expected to initiate a NERC Hotline call for all K-7 or higher GMD warnings and/or alerts. Appendix B documents the expected call script during the SWPC initiated NERC Hotline call. Periodic testing of the GMD NERC Hotline process will be conducted at least once per calendar quarter as detailed in Appendix C.

Eastern Interconnection GMD Monitors

The Eastern Interconnection GMD monitor will participate in the SWPC initiated phone communication with other RCs via the NERC Hotline. The GMD monitor will perform a roll call of RCs (all Interconnections)
expected to participate. The GMD monitor will repeat back the GMD information provided by the SWPC during the call for clarity and correct any errors. The Eastern Interconnection GMD monitor will call the RC’s in the Eastern Interconnection, ERCOT, Hydro Quebec and/or Western Interconnection GMD Monitor who did not participate in the SWPC call (unacknowledged during the roll call).

The GMD monitor will post a message to the RC Information System (RCIS) outlining the GMD event information (level, time, including time zone, etc.).

**Western Interconnection (WECC) GMD Monitors**

The Western Interconnection GMD monitor will participate in the SWPC initiated phone communication with other RCs via the NERC Hotline. If the Eastern Interconnection GMD Monitor is not present, the Western Interconnection GMD monitor will perform a roll call of RCs (all Interconnections) expected to participate. The Western Interconnection GMD monitor will call those RC’s in the WECC, ERCOT, Hydro Quebec and/or Eastern Interconnection GMD Monitor who did not participate in the SWPC call (unacknowledged during the roll call). The GMD monitor will post a message to the Grid Messaging System (GMS) outlining the GMD event information (level, time, including time zone, etc.).

**GMD Monitor Transition**

The current GMD monitor will contact the next scheduled GMD monitor no later than October 1 to begin coordinating the transition that will occur on February 1 of the following year. This coordination should include local procedure(s) currently in use, data requirements, and communications. **Appendix A** includes a transition checklist. In the event the designated Eastern Interconnection GMD monitor is unable to fulfill its responsibilities, the previous GMD monitor should maintain the capability to perform the GMD monitor duties.

**Interconnection GMD Monitors**

Each Interconnection has identified the following RC as its GMD monitor:

1. ERCOT Interconnection – ERCOT RC
2. Québec Interconnection – Hydro-Québec TransÉnergie RC
3. Eastern Interconnection – The RCs in the Eastern Interconnection will rotate the GMD monitor responsibilities on an annual basis as follows:
   a. TVA – February 1, 2021 through January 31, 2022
   b. MISO – February 1, 2022 through January 31, 2023
   c. IESO (Ontario) – February 1, 2023 through January 31, 2024
   d. NBP (New Brunswick Power) – February 1, 2024 through January 31, 2025
   e. VACAR-South – February 1, 2025 through January 31, 2026
   f. SPP – February 1, 2026 through January 31, 2027
   g. NYISO – February 1, 2027 through January 31, 2028
h. PJM – February 1, 2028 through January 31, 2029
i. ISO-NE – February 1, 2029 through January 31, 2030
j. FRCC – February 1, 2030 through January 31, 2031

4. Western Interconnection (WECC) – The RCs in the Western Interconnection will rotate the GMD monitor responsibilities on an annual basis as follows:
   a. BCRC – February 1, 2021 through January 31, 2022
   b. SPP – February 1, 2022 through January 31, 2023
   c. CAISO RC West – February 1, 2023 through January 31, 2024
   d. BCRC – February 1, 2024 through January 31, 2025
   e. AESO – February 1, 2025 through January 31, 2026 (requires NERC Hotline Access)
Appendix A: GMD Monitor Transition Checklist

The following items are to be used as a guide for transitioning to the new GMD Monitor prior to the new effective date.

1. SWPC subscriptions – the outgoing GMD Monitor will provide a list of the SWPC subscriptions currently received to the incoming GMD Monitor.

2. Process documents – the outgoing GMD Monitor will provide process steps, as requested, to the incoming GMD Monitor. The incoming GMD Monitors for the Eastern/Western Interconnections will distribute their process documents to other RCs within their interconnection.

3. Roll call process – the outgoing GMD Monitor will provide instruction to the incoming GMD Monitor on performing the roll call. The Eastern Interconnection GMD Monitor is responsible for performing the roll call. If not present, the Western Interconnection GMD Monitor will be prepared to initiate the roll call.

4. Orientation call with SWPC – the incoming GMD Monitor(s) will arrange to attend an orientation call with the SWPC to discuss engagement with SWPC during NERC Hotline calls.
Appendix B: NERC Hotline Call Script

1. SWPC initiates NERC Hotline call, waits for RC to initiate a roll call.
2. One of the GMD Monitors will initiate a roll call (primary – Eastern GMD Monitor, backup – Western GMD Monitor) and will facilitate the call.
3. Once roll call completed, the SWPC will provide the GMD warning/alert information.
4. The GMD Monitor facilitating the call will summarize the information provided by the SWPC to allow for confirmation and/or clarification of any details.
5. The GMD Monitor will request any questions from the RCs participating in the call.
6. Once questions have been addressed the GMD Monitor will end the call.
The GMD Hotline call will be tested quarterly, in February, May, August and November each year. The test will take place on the fourth Monday of each month at 11:00 a.m. Eastern time using the following schedule. SWPC will initiate the call and the call will be moderated by the Eastern Interconnection Time Monitor or the Western Interconnection Time Monitor as indicated below.

### GMD Hotline Test Schedule

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<thead>
<tr>
<th>Date of Test</th>
<th>Responsible GMD Monitor</th>
<th>Date of Test</th>
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