

**Reliability Standard Audit Worksheet[[1]](#footnote-1)**

# PRC-002-5 – Disturbance Monitoring and Reporting Requirements

***This section to be completed by the Compliance Enforcement Authority.***

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| **Audit ID:** | Audit ID if available; or REG-NCRnnnnn-YYYYMMDD |
| **Registered Entity:** | Registered name of entity being audited |
| **NCR Number:** | NCRnnnnn |
| **Compliance Enforcement Authority:** | Region or NERC performing audit |
| **Compliance Assessment Date(s)[[2]](#footnote-2):** | Month DD, YYYY, to Month DD, YYYY |
| **Compliance Monitoring Method:** | [On-site Audit | Off-site Audit | Spot Check] |
| **Names of Auditors:** | Supplied by CEA |

# **Applicability of Requirements**

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|  | **BA** | **DP** | **GO** | **GOP** | **IA** | **LSE** | **PA/PC** | **PSE** | **RC** | **RP** | **RSG** | **TO** | **TOP** | **TP** | **TSP** |
| **R1** |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |
| **R2** |  |  | X |  |  |  |  |  |  |  |  | X |  |  |  |
| **R3** |  |  | X |  |  |  |  |  |  |  |  | X |  |  |  |
| **R4** |  |  | X |  |  |  |  |  |  |  |  | X |  |  |  |
| **R5** |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |
| **R6** |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |
| **R7** |  |  | X |  |  |  |  |  |  |  |  |  |  |  |  |
| **R8** |  |  | X |  |  |  |  |  |  |  |  | X |  |  |  |
| **R9** |  |  | X |  |  |  |  |  |  |  |  | X |  |  |  |
| **R10** |  |  | X |  |  |  |  |  |  |  |  | X |  |  |  |
| **R11** |  |  | X |  |  |  |  |  |  |  |  | X |  |  |  |
| **R12** |  |  | X |  |  |  |  |  |  |  |  | X |  |  |  |
| **R13** |  |  | X |  |  |  |  |  |  |  |  | X |  |  |  |

**Legend:**

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| Text with blue background: | Fixed text – do not edit |
| Text entry area with green background: | Entity-supplied information |
| Text entry area with white background: | Auditor-supplied information |

Findings

**(This section to be completed by the Compliance Enforcement Authority)**

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| **Req.** | **Finding** | **Summary and Documentation** | **Functions Monitored** |
| **R1** |  |  |  |
| **R2** |  |  |  |
| **R3** |  |  |  |
| **R4** |  |  |  |
| **R5** |  |  |  |
| **R6** |  |  |  |
| **R7** |  |  |  |
| **R8** |  |  |  |
| **R9** |  |  |  |
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| **R11** |  |  |  |
| **R12** |  |  |  |
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| **Req.** | **Areas of Concern** |
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| **Req.** | **Recommendations** |
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| **Req.** | **Positive Observations** |
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Subject Matter Experts

Identify the Subject Matter Expert(s) responsible for this Reliability Standard.

**Registered Entity Response (Required; Insert additional rows if needed):**

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| **SME Name** | **Title** | **Organization** | **Requirement(s)** |
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R1 Supporting Evidence and Documentation

**R1**.Each Transmission Owner shall:

**1.1** Identify BES buses for which sequence of events recording (SER) and fault recording (FR) data is required by using the methodology in PRC-002-5, Attachment 1.

**1.2** Notify other owners of BES Elements directly connected to those BES buses, that SER or FR data is required for those BES Elements only if the Transmission Owner who identified the BES buses in Part 1.1 does not have SER or FR data. This notification is required within 90 calendar days of completion of Part 1.1.

**1.3** Re-evaluate all BES buses at least once every five calendar years in accordance with Part 1.1 and notify other owners in accordance with Part 1.2.

**M1**. The Transmission Owner for Requirement R1, Part 1.1 has a dated (electronic or hard copy) list of BES buses for which SER and FR data is required, identified in accordance with PRC-002-5, Attachment 1; has dated (electronic or hard copy) that it notified other owners in accordance with Requirement R1, Part 1.2; and evidence that all BES buses have been re-evaluated within the required intervals under Requirement R1, Part 1.3.

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page are recommended.

Evidence Requested[[3]](#endnote-1):

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| Dated documentation providing evidence of following the steps outlined in Attachment 1, including all steps, as applicable, at least once every five calendar years to identify the BES buses for which SER and FR data is required. |
| If applicable, a list of owners of BES Elements directly connected to applicable BES buses where SER or FR data is required. |
| Dated documentation or other evidence that the entity notified other owners of BES Elements directly connected to its BES buses within 90-calendar days if the identified BES buses per Part 1.1 have no SER or FR data. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R1

***This section to be completed by the Compliance Enforcement Authority***

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|  | (Part 1.1) Select a sample of entity’s BES buses and verify Requirement R1 Part 1.1 identification has occurred using the methodology in PRC-002-5, Attachment 1. |
|  | (Part 1.2) If applicable, select a sample of other owners of BES Elements directly connected to applicable BES buses where no SER or FR data is available to the Transmission Owner, and verify entity notified other owner(s) within 90-calendar days of completion of Part 1.1 that Elements require SER and/or FR data. |
|  | (Part 1.3) Verify that entity evaluated BES buses at least once every five calendar years in accordance with Part 1.1, notified other owners, if any, in accordance with Part 1.2. |
| **Note to Auditor:** A calendar year is defined as January 1 through December 31.  Use of a system one-line, list of buses or other information may be appropriate for identifying buses for auditors to determine if they were appropriately identified by entity. Consider Footnote 2 when reviewing information.  See Attachment 1 of PRC-002-5 for methodology to be used in identifying applicable BES buses. Note that the Attachment does not provide guidance for determining buses where the highest maximum available calculated three phase short circuit MVA is the same value at more than 11 BES buses. This could impact results. The SDT was requested to address the issue and chose not to do so. Additionally, Step 5 application may result in a reduced MVA level based on the plain meaning of “Multiply….by 20 percent.” Registered entity staff should clearly identify how they used Attachment 1.  **Footnote 2 from PRC-002-5 Reliability Standard Language**: For the purposes of this standard, “directly connected” BES Elements are BES Elements connected at the same voltage level within the same physical location sharing a common ground grid with the BES bus identified under Attachment 1. Transformers that have a low-side operating voltage of less than 100 kV are excluded. | |

Auditor Notes:

R2 Supporting Evidence and Documentation

**R2**.Each Transmission Owner and Generator Owner shall have SER data for circuit breaker position (open/close) for each circuit breaker it owns directly connected to the BES buses identified in Requirement R1 and associated with the BES Elements at those BES buses.

**M2**. The Transmission Owner or Generator Owner has evidence (electronic or hard copy) of SER data for circuit breaker position as specified in Requirement R2. Evidence may include, but is not limited to: (1) documents describing the device interconnections and configurations which may include a single design standard as representative for common installations; or (2) actual data recordings; or (3) station drawings.

Registered Entity Response (Required):

**Question:** Has the entity received notification that any of the entity’s BES Elements require SER data, as identified in Requirement R1, Part 1.2? If yes, provide a list of the BES buses, BES Elements, date of notification, and the Transmission Owner who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| A one-line diagram of the BES buses identified in Requirement R1, or a list of each circuit breaker owned directly connected to the BES buses identified in Requirement R1. |
| Documents describing the SER device interconnections and configurations which can include a single design standard as representative for common installations. Actual data recordings or station drawings for those BES buses may also be presented. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R2

***This section to be completed by the Compliance Enforcement Authority***

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|  | Select a sample of entity-owned circuit breakers directly connected to the BES buses identified in Requirement R1 and examine evidence to verify existence of SER data for circuit breaker position. If no events occurred to create SER data, then the auditor may rely on basis documents such as installation drawings or device configurations to support compliance. |
| **Note to Auditor:** | |

Auditor Notes:

R3 Supporting Evidence and Documentation

**R3**.Each Transmission Owner and Generator Owner shall have FR data to determine the following electrical quantities for each triggered FR for the BES Elements it owns directly connected to the BES buses identified in Requirement R1:

**3.1** Phase-to-neutral voltage for each phase of each specified BES bus.

**3.2** Each phase current and the residual or neutral current for the following BES Elements:

**3.2.1** Transformers that have a low-side operating voltage of 100 kV or above.

**3.2.2** Transmission Lines.

**M3**. The Transmission Owner or Generator Owner has evidence (electronic or hard copy) of FR data that is sufficient to determine electrical quantities as specified in Requirement R3. Evidence may include, but is not limited to: (1) documents describing the device specifications and configurations which may include a single design standard as representative for common installations; or (2) actual data recordings or derivations; or (3) station drawings.

Registered Entity Response (Required):

**Question:** Has the entity received notification that any of its BES Elements require FR data, as identified in Requirement R1, Part 1.2?

If yes, provide a list of the BES buses, BES Elements, date of notification, and the Transmission Owner who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| Documents describing the device specification and configurations as described in Measure M3. |
| Actual data recordings for applicable BES Elements directly connected to the BES buses identified in Requirement R1. |
| For electrical quantities not directly measured, provide documentation regarding the determination (calculation) of these quantities. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
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Compliance Assessment Approach Specific to PRC-002-5, R3

***This section to be completed by the Compliance Enforcement Authority***

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|  | (R3) Select a sample of entity-owned BES Elements (from list or one-line diagram(s)) directly connected to the BES buses identified in Requirement R1 and verify existence of FR data for the following electrical quantities for each triggered FR: |
|  | (Part 3.1) Phase-to-neutral voltage for each phase of each specified BES bus. |
|  | (Part 3.2) Each phase current and the residual or neutral current for transformers that have a low-side operating voltage of 100 kV or above and Transmission Lines. |
| **Note to Auditor:** If no events occurred to create FR data, then the auditor may rely on basis documents such as installation drawings or device configurations to support compliance. | |

Auditor Notes:

R4 Supporting Evidence and Documentation

**R4**.Each Transmission Owner and Generator Owner shall have FR data as specified in Requirement R3 that meets the following:

**4.1** A single record or multiple records that include:

* A pre-trigger record length of at least two cycles and a total record length of at least 30 cycles for the same trigger point, or
* At least two cycles of the pre-trigger data, the first three cycles of the post-trigger data, and the final cycle of the fault as seen by the fault recorder.

**4.2** A minimum recording rate of 16 samples per cycle.

**4.3** Trigger settings for at least the following:

**4.3.1** Neutral (residual) overcurrent.

**4.3.2** Phase undervoltage or overcurrent.

**M4**. The Transmission Owner or Generator Owner has evidence (electronic or hard copy) that FR data meets Requirement R4. Evidence may include, but is not limited to: (1) documents describing the device specification (R4, Part 4.2) and device configuration or settings (R4, Parts 4.1 and 4.3), or (2) actual data recordings or derivations.

Registered Entity Response (Required):

**Question:** Has the entity received notification that any of its BES Elements require FR data, as identified in Requirement R1, Part 1.2? If yes, provide a list of the BES buses, BES Elements, date of notification, and the Transmission Owner who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| Data device specification(s) that meet Requirement R4, Part 4.2 and data device configuration(s) that meet Requirement R4, Parts 4.1 and 4.3. |
| A sample of actual data recordings or derivations to demonstrate compliance with Requirement R4, Parts 4.1-4.3. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R4

***This section to be completed by the Compliance Enforcement Authority***

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|  | (R4) Using Elements subject to Requirement R3 with FR data, verify data meets the following: |
|  | (Part 4.1) A single record or multiple records that include a pre-trigger record length of at least two cycles and a post-trigger record length of at least 30 cycles for the same trigger point, or at least two cycles of the pre-trigger data, the first three cycles of the post-trigger data, and the final cycle of the fault as seen by the fault recorder. |
|  | (Part 4.2) A minimum recording rate of 16 samples per cycle. |
|  | (Part 4.3) Trigger settings for at least the following 1) neutral (residual) overcurrent and 2) and phase undervoltage or overcurrent. |
| **Note to Auditor:** If no events occurred to create FR data, then auditor may rely on basis documents such as installation drawings or device configurations to support compliance. | |

Auditor Notes:

R5 Supporting Evidence and Documentation

**R5**.Each Reliability Coordinator shall:

**5.1** Identify BES Elements for which dynamic Disturbance recording (DDR) data is required, including the following:

**5.1.1** Synchronous generating resource(s) with:

**5.1.1.1** Gross individual nameplate rating greater than or equal to 500 MVA.

**5.1.1.2** Gross individual nameplate rating greater than or equal to 300 MVA where the gross plant/facility aggregate nameplate rating is greater than or equal to 1,000 MVA.

**5.1.2** Any one BES Element that is part of a stability (angular or voltage) related System Operating Limit (SOL).

**5.1.3** Each terminal of a high voltage direct current (HVDC) circuit with a nameplate rating greater than or equal to 300 MVA, on the alternating current (AC) portion of the converter.

**5.1.4** One or more BES Elements that are part of an Interconnection Reliability Operating Limit (IROL).

**5.1.5** Any one BES Element within a major voltage sensitive area as defined by an area with an in-service undervoltage load shedding (UVLS) program.

**5.2** Identify a minimum DDR coverage, inclusive of those BES Elements identified in Part 5.1, of at least:

**5.2.1** One BES Element; and

**5.2.2** One BES Element per 3,000 MW of the Reliability Coordinator’s historical simultaneous peak System Demand.

**5.3** Notify all owners of identified BES Elements, within 90 calendar days of completion of Part 5.1, that their respective BES Elements require DDR data.

**5.4** Re-evaluate all BES Elements within its Reliability Coordinator Area at least once every five calendar years in accordance with Parts 5.1 and 5.2, and notify owners in accordance with Part 5.3.

**M5**. The Reliability Coordinator has a dated (electronic or hard copy) list of BES Elements for which DDR data is required, developed in accordance with Requirement R5, Part 5.1 and Part 5.2; and re-evaluated in accordance with Part 5.4. The Reliability Coordinator has dated evidence (electronic or hard copy) that each Transmission Owner or Generator Owner has been notified in accordance with Requirement 5, Part 5.3. Evidence may include, but is not limited to letters, emails, electronic files, or hard copy records demonstrating transmittal of information.

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| Dated documentation providing evidence of identified DDR data BES Elements (Parts 5.1.1 – 5.1.5) and identified DDR coverage (R5.2). |
| Dated documentation, or other evidence, demonstrating the entity notified other owners of identified BES Elements within 90 calendar days of completion of Part 5.1. |
| Dated documentation providing evidence of re-evaluation of all BES Elements at least once every five calendar years in accordance with Parts 5.1 and 5.2, and notification in accordance with Part 5.3. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R5

***This section to be completed by the Compliance Enforcement Authority***

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|  | (Part 5.1) Review evidence that entity identified BES Elements for which DDR data is required. Using one-line diagram(s) (or other evidence) verify that entity identified BES Elements as follows: |
|  | (Part 5.1.1) Synchronous generating resources with gross individual nameplate rating greater than or equal to 500 MVA, or gross individual nameplate rating greater than or equal to 300 MVA where the gross plant/facility aggregate nameplate rating is greater than or equal to 1000 MVA. |
|  | (Part 5.1.2) Any one BES Element that is part of a stability (angular or voltage) related SOL. |
|  | (Part 5.1.3) Each terminal of a high voltage direct current (HVDC) circuit with nameplate rating greater than or equal to 300 MVA, on the alternating current (AC) portion of the converter. |
|  | (Part 5.1.4) One or more BES Elements that are part of an Interconnecting Reliability Operating Limit (IROL). |
|  | (Part 5.1.5) Any one BES Element within a major voltage sensitive area as defined by an area with an in-service undervoltage load shedding (UVLS) program. |
|  | (Part 5.2) Verify the DDR coverage for BES Elements identified in Part 5.1 includes a minimum of one BES Element and one BES Element per 3,000 MW of its historical simultaneous peak System Demand. |
|  | (Part 5.3) For a sample of BES Elements identified as having other owners, verify entity notified other owners of the BES Elements, within 90 calendar days of completion of Part 5.1, that their respective BES Elements require DDR data. |
|  | (Part 5.4) Verify that BES Elements were re-evaluated once every five calendar years in accordance with Parts 5.1 and 5.2 and owners were notified in accordance with Part 5.3. |
| **Note to Auditor:** A calendar year is defined as January 1 through December 31.  An RC does not need to include every Element that is part of an IROL per Part 5.1.4. This could lead to DDR data recorder being on an outage Element of an IROL during a Disturbance. RCs should be asked how they determined which Element(s) of an IROL require DDR data.  With regard to Requirement R5 Part 5.2.2, auditor should consider the number of BES Elements required to be the peak System Demand divided by 3,000 MWs. | |

Auditor Notes:

R6 Supporting Evidence and Documentation

**R6**.Each Transmission Owner shall have DDR data to determine the following electrical quantities for each BES Element it owns for which it received notification as identified in Requirement R5:

**6.1** One phase-to-neutral or positive sequence voltage.

**6.2** The phase current for the same phase at the same voltage corresponding to the voltage in Requirement R6, Part 6.1, or the positive sequence current.

**6.3** Real Power and Reactive Power flows expressed on a three-phase basis corresponding to all circuits where current measurements are required.

**6.4** Frequency of any one of the voltage(s) in Requirement R6, Part 6.1.

**M6**.The Transmission Owner has evidence (electronic or hard copy) of DDR data to determine electrical quantities as specified in Requirement R6. Evidence may include, but is not limited to: (1) documents describing the device specifications and configurations, which may include a single design standard as representative for common installations; or (2) actual data recordings or derivations; or (3) station drawings.

Registered Entity Response (Required):

**Question:** Has the entity received notification as identified in Requirement R5 Part 5.3 that any of its BES Elements require DDR data? If yes, provide a list of the BES Elements, date of notification, and the Reliability Coordinator who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Question:** Were there any quantities identified in Parts 6.1-6.4 that the entity could not determine (directly or through calculation)? Yes  No

If yes, provide a description of the Disturbances where quantities could not be determined and how the determinations were made.

[Note: A separate spreadsheet or another document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| List of BES Elements for which entity owns and received notification pursuant to Requirement R5. |
| Documents describing the DDR device interconnections and configurations which can include a single design standard as representative for common installations. |
| Actual DDR data recordings for BES Elements for which entity owns and received notification pursuant to Requirement R5. |
| For electrical quantities not directly measured, provide documentation regarding the determination (calculation) of these quantities. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R6

***This section to be completed by the Compliance Enforcement Authority***

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|  | (R6) Select a sample of BES Elements where entity received notification pursuant to Requirement R5 and verify entity has DDR data to determine the following electrical quantities: |
|  | (Part 6.1) One phase-to-neutral or positive sequence voltage. |
|  | (Part 6.2) The phase current for the same phase at the same voltage corresponding to the voltage in Requirement R6, Part 6.1, or the positive sequence current. |
|  | (Part 6.3) Real Power and Reactive Power flows expressed on a three-phase basis corresponding to all circuits where current measurements are required. |
|  | (Part 6.4) Frequency of any one of the voltage(s) in Requirement R6, Part 6.1. |
| **Note to Auditor:** | |

Auditor Notes:

R7 Supporting Evidence and Documentation

**R7**.Each Generator Owner shall have DDR data to determine the following electrical quantities for each BES Element it owns for which it received notification as identified in Requirement R5:

**7.1** One phase-to-neutral, phase-to-phase, or positive sequence voltage at either the generator step-up transformer (GSU) high-side or low-side voltage level.

**7.2** The phase current for the same phase at the same voltage corresponding to the voltage in Requirement R7, Part 7.1, phase current(s) for any phase-to-phase voltages, or positive sequence current.

**7.3** Real Power and Reactive Power flows expressed on a three-phase basis corresponding to all circuits where current measurements are required.

**7.4** Frequency of at least one of the voltages in Requirement R7, Part 7.1.

**M7**.The Generator Owner has evidence (electronic or hard copy) of DDR data to determine electrical quantities as specified in Requirement R7. Evidence may include, but is not limited to: (1) documents describing the device specifications and configurations, which may include a single design standard as representative for common installations; or (2) actual data recordings or derivations; or (3) station drawings.

Registered Entity Response (Required):

**Question:** Has the entity received notification as identified in Requirement R5 Part 5.3 that any of its BES Elements require DDR data when requested?

If yes, provide a list of the BES Elements, date of notification, and the Reliability Coordinator who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Question:** Were there any quantities, identified in Parts 7.1-7.4, that the entity could not determine (directly or through calculation)?  Yes  No

If yes, provide a description of the Disturbances where quantities could not be determined and how the determinations were made.

[Note: A separate spreadsheet or another document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to the evidence supplied are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| List of BES Elements for which entity owns and received notification pursuant to Requirement R5. |
| Documents describing the DDR device interconnections and configurations which can include a single design standard as representative for common installations. |
| Actual DDR data recordings for those BES Elements. |
| For electrical quantities not directly measured, provide documentation regarding the determination (calculation) of these quantities. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R7

***This section to be completed by the Compliance Enforcement Authority***

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|  | (R7) Select a sample of BES Elements where entity received notification pursuant to Requirement R5 and verify entity has DDR data to determine the following electrical quantities: |
|  | (Part 7.1) One phase-to-neutral, phase-to-phase, or positive sequence voltage at either the generator step-up (GSU) transformer high-side or low-side voltage level. |
|  | (Part 7.2) The phase current for the same phase at the same voltage corresponding to the voltage in Requirement R7, Part 7.1, phase current(s) for any phase-to-phase voltages, or positive sequence current. |
|  | (Part 7.3) Real Power and Reactive Power flows expressed on a three-phase basis corresponding to all circuits where current measurements are required. |
|  | (Part 7.4) Frequency of any one of the voltage(s) in Requirement R7, Part 7.1. |
| **Note to Auditor:** | |

Auditor Notes:

R8 Supporting Evidence and Documentation

**R8**.Each Transmission Owner and Generator Owner responsible for DDR data for the BES Elements identified in Requirement R5 shall have continuous data recording and storage. If the equipment was installed prior to the effective date of the Reliability Standard PRC-002-2 and is not capable of continuous recording, triggered records must meet the following:

**8.1** Triggered record lengths of at least three minutes.

**8.2** At least one of the following three triggers:

* Off nominal frequency trigger set at:

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| --- | --- | --- |
|  | Low | High |
| Eastern Interconnection | <59.75 Hz | >61.0 Hz |
| Western Interconnection | <59.55 Hz | >61.0 Hz |
| ERCOT Interconnection | <59.35 Hz | >61.0 Hz |
| Quebec Interconnection | <58.55 Hz | >61.5 Hz |

* Rate of change of frequency trigger set at:

|  |  |  |
| --- | --- | --- |
| Eastern Interconnection | < -0.03125 Hz/sec | > 0.125 Hz/sec |
| Western Interconnection | < -0.05625 Hz/sec | > 0.125 Hz/sec |
| ERCOT Interconnection | < -0.08125 Hz/sec | > 0.125 Hz/sec |
| Quebec Interconnection | < -0.18125 Hz/sec | > 0.1875 Hz/sec |

* Undervoltage trigger set no lower than 85 percent of normal operating voltage for a duration of 5 seconds.

**M8**.Each Transmission Owner and Generator Owner has dated evidence (electronic or hard copy) of data recordings and storage in accordance with Requirement R8. Evidence may include, but is not limited to: (1) documents describing the device specifications and configurations, which may include a single design standard as representative for common installations; or (2) actual data recordings.

Registered Entity Response (Required):

**Question:** Has the entity received notification as identified in Requirement R5 Part 5.3 that any of its BES Elements require DDR data when requested?  Yes  No

**Registered Entity Response (Required):**

**Question:**

Does entity have non-continuous triggered recording capability installed prior to the effective date of PRC-002-2?  Yes  No

If yes, provide documentation that trigger points were set according to the tables in Requirement R8.

[Note: A separate spreadsheet or another document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| Data device specification(s), setting(s), and configuration(s) meeting criteria of Requirement R8. |
| Actual data recordings or derivations to demonstrate meeting criteria of Requirement R8. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R8

***This section to be completed by the Compliance Enforcement Authority***

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|  | (R8) For a sample of BES Elements where entity is responsible for DDR data for the BES Elements identified in Requirement R5, examine evidence to verify that entity has continuous data recording and storage. If entity has recording equipment installed prior to the effective date of the Reliability Standard PRC-002-2 confirm installation dates for a sample of DDR equipment. |
|  | (Part 8.1 and 8.2) Select a sample of BES Elements where entity is responsible for DDR data for the BES Elements identified in Requirement R5 with DDR equipment installed prior to the effective date of PRC-002-2 and verify triggered records record lengths of at least three minutes for at least one of the three triggers listed in Part 8.2. |
| **Note to Auditor:** Note Part 8.1 and Part 8.2 are only applicable if entity has DDR equipment installed prior to PRC-002-2 effective date (July 1, 2016 in U.S.) that does not support continuous data recording and storage.  **Footnote 3 from PRC-002-5 Reliability Standard Language:** The effective date of the Reliability Standard PRC-002-2 in the U.S. was July 1, 2016. The effective date may be different for other jurisdictions. | |

Auditor Notes:

R9 Supporting Evidence and Documentation

**R9**.Each Transmission Owner and Generator Owner responsible for DDR data for the BES Elements identified in Requirement R5 shall have DDR data that meet the following:

**9.1** Input sampling rate of at least 960 samples per second.

**9.2** Output recording rate of electrical quantities of at least 30 times per second.

**M9**.The Transmission Owner or Generator Owner has evidence (electronic or hard copy) that DDR data meets Requirement R9. Evidence may include, but is not limited to: (1) documents describing the device specification, device configuration, or settings (R9, Part 9.1; R9, Part 9.2); or (2) actual data recordings (R9, Part 9.2).

Registered Entity Response (Required):

**Question:** Has the entity received notification as identified in Requirement R5 Part 5.3 that any of its BES Elements require DDR data when requested? If yes, provide a list of the BES buses, BES Elements, date of notification, and the Reliability Coordinator who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| Data device specification(s), setting(s), and configuration(s) meeting criteria of Requirement R9 |
| Actual DDR data recordings to demonstrate meeting criteria with Requirement R9. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R9

***This section to be completed by the Compliance Enforcement Authority***

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|  | (R9) For a sample of BES Elements where entity is responsible for DDR data for BES Elements identified in Requirement R5, examine evidence to verify that entity data meets the following technical specifications: |
|  | (Part 9.1) Input sampling rate of at least 960 samples per second. |
|  | (Part 9.2) Output recording rate of electrical quantities of at least 30 times per second. |
| **Note to Auditor:** An input sampling rate of at least 960 samples per second, which corresponds to 16 samples per cycle on the input side of the DDR equipment (960 samples/sec/60 Hz – 16 samples/cycle). An output recording rate of electrical quantities of at least 60 times per second refers to the recording rate of the device.  Sampling rate describes the rate a device is collecting and recording a specific number of data points (samples) over a period of time. | |

Auditor Notes:

R10 Supporting Evidence and Documentation

**R10**.Each Transmission Owner and Generator Owner shall time synchronize all SER and FR data for the BES buses identified in Requirement R1 and DDR data for the BES Elements identified in Requirement R5 to meet the following:

**10.1** Synchronization to Coordinated Universal Time (UTC) with or without a local time offset.

**10.2** Synchronized device clock accuracy within ± 2 milliseconds of UTC.

**M10**. The Transmission Owner or Generator Owner has evidence (electronic or hard copy) of time synchronization described in Requirement R10. Evidence may include, but is not limited to: (1) documents describing the device specification, configuration, or setting; (2) time synchronization indication or status; or 3) station drawings.

Registered Entity Response (Required):

**Question:** Has the entity received notification that any of its BES Elements require SER or FR data, as identified in Requirement R1, Part 1.2?

If yes, provide a list of the BES buses, BES Elements, date of notification, and the Transmission Owner who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Question:** Has the entity received notification as identified in Requirement R5 Part 5.3 that any of its BES Elements require DDR data when requested? If yes, provide a list of the BES buses, BES Elements, date of notification, and the Reliability Coordinator who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| Actual SER, FR, and DDR data recordings, as applicable, to demonstrate timing synchronization criteria of Requirement R10 . |
| Basis documents such as installation drawings or device configurations supporting the time synchronization of all DDR, SER, and FR data as described in Requirement R10. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R10

***This section to be completed by the Compliance Enforcement Authority***

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|  | (R10) For a sample of BES buses/Elements examine evidence to verify that entity time synchronized all SER, and FR data for the BES buses identified in Requirement R1 and DDR data for the BES Elements identified in Requirement R5 as follows: |
|  | (Part 10.1) Coordinated Universal Time (UTC) with or without a local time offset. |
|  | (Part 10.2) Device clock accuracy within ± 2 milliseconds of UTC |
| **Note to Auditor:** Auditors should rely on basis documents such as installation drawings or device configurations to the extent synchronization cannot be determined by reviewing the data. Accuracy of time synchronization applies only to the clock used for synchronizing the monitoring equipment. The equipment used to measure the electrical quantities must be time synchronized to ± 2 millisecond accuracy; however, accuracy of the application of this time stamp and therefore, the accuracy of the data itself is not mandated. This is because of inherent delays associated with measuring the electrical quantities and events such as breaker closing, measurement transport delays, algorithm, and measurement calculation techniques, etc. | |

Auditor Notes:

R11 Supporting Evidence and Documentation

**R11**.Each Transmission Owner and Generator Owner shall provide, upon request, all SER and FR data for the BES buses identified in Requirement R1 and DDR data for the BES Elements identified in Requirement R5 to the Reliability Coordinator, Regional Entity, or NERC in accordance with the following:

**11.1** Data will be retrievable for the period of 10 calendar days, inclusive of the day the data was recorded.

**11.2** Data subject to Part 11.1 will be provided within 30 calendar days of a request unless an extension is granted by the requestor.

**11.3** SER data will be provided in ASCII Comma Separated Value (CSV) format following Attachment 2.

**11.4** FR data will be provided either in CSV format with appropriate headers or in electronic files that are formatted in conformance with C37.111, IEEE Standard for Common Format for Transient Data Exchange (COMTRADE), revision C37.111-1999 or later.

**11.5** DDR data will be provided either in CSV format with appropriate headers or in electronic files that are formatted in conformance with C37.111, IEEE Standard Common Format for Transient Data Exchange (COMTRADE), revision C37.111‐1999 or later.

**11.6** Data files will be named in conformance with C37.232, IEEE Standard for Common Format for Naming Time Sequence Data Files (COMNAME), revision C37.232-2011 or later.

**M11**.The Transmission Owner or Generator Owner has evidence (electronic or hard copy) that data was submitted upon request in accordance with Requirement R11. Evidence may include, but is not limited to: (1) dated transmittals to the requesting entity with formatted records; (2) documents describing data storage capability, device specification, configuration or settings; or (3) actual data recordings.

Registered Entity Response (Required):

**Question:** Has the entity received notification that any of its BES Elements require SER or FR data, as identified in Requirement R1, Part 1.2? If yes, provide a list of the BES buses, BES Elements, date of notification, and the Transmission Owner who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Question:** Has the entity received notification as identified in Requirement R5 Part 5.3 that any of its BES Elements require DDR data when requested? If yes, provide a list of the BES buses, BES Elements, date of notification, and the Transmission Owner who identified the need.

Yes  No

[Note: A separate spreadsheet or other document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Question:** Did entity receive any requests for SER, FR and/or DDR data? Yes  No

If yes, provide a list of such requests including the data type, requesting entity, and date requested.

[Note: A separate spreadsheet or another document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| Dated transmittals to the Reliability Coordinator, Regional Entity, or NERC with formatted records in accordance with Requirement R11, Parts 11.1 and 11.2. |
| Actual data recordings that conform with Requirement R11, Parts 11.3-11.5. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R11

***This section to be completed by the Compliance Enforcement Authority***

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|  | (R11) For a sample of requests for SER and FR data for BES buses identified in Requirement R1 and DDR data for the BES Elements identified in Requirement R5, verify that entity provided the data to the Reliability Coordinator, Regional Entity or NERC in accordance with the following: |
|  | (Part 11.1) Data was retrievable for the period of 10 calendar days, inclusive of the day the data was recorded. |
|  | (Part 11.2) Data was provided within 30 calendar days of a request unless an extension was granted by the requestor. |
|  | (Part 11.3) SER data provided in ASCII CSV format following Attachment 2 of this Reliability Standard. |
|  | (Part 11.4) FR data provided in CSV format with appropriate headers or electronic files that are formatted in conformance with C37.111 IEEE COMTRADE, revision C37.111-1999 or later. |
|  | (Part 11.5) DDR data provided in CSV format with appropriate headers or electronic files that are formatted in conformance with C37.111 IEEE COMTRADE, revision C37.111-1999 or later. |
|  | (Part 11.6) Data files named in conformance with C37.232, IEEE Standard for Common Format for Naming Time Sequence Data Files (COMNAME), revision C37.232-2011 or later. |
| **Note to Auditor:** See Attachment 2 of PRC-002-5 for information regarding format of submitted SER data. With the state‐of‐the‐art equipment, having the data retrievable for the 20 calendar days is realistic and doable. It is important to note that applicable entities should account for any expected delays in retrieving data and this may require devices to have data available for more than 20 days. To clarify the 20-calendar daytime frame, let’s assume that event occurs on Day 1. If a request for data is made on Day 6, then that data must be provided to the requestor within 20 calendar days after a request or a granted time extension. However, if a request for the data is made on Day 21, that is outside the 20 calendar days specified in the Requirement, and an entity would not be out of compliance if it did not have the data.  If an event has occurred, the Regional Entity may have data available through the events analysis process which should be considered viable evidence to support compliance. Regions may need to consider data holds for compliance purposes soon after an event. Note that IEEE COMTRADE may not include formatting for certain attributes required by the Standard. This should not be a compliance issue as the entity is not in direct control of the IEEE COMTRADE changes. | |

Auditor Notes:

R12 Supporting Evidence and Documentation

**R12**.Each Transmission Owner and Generator Owner shall, upon the discovery of a failure of the recording capability for the SER, FR or DDR data:

• Restore the recording capability within 90 calendar days, or

• Submit a Corrective Action Plan (CAP) to the Regional Entity within 90 calendar days and then implement it according to CAP timeline.

**M12**. The Transmission Owner or Generator Owner has dated evidence (electronic or hard copy) that meets Requirement R12. Evidence may include, but is not limited to: (1) dated reports of discovery of a failure, (2) documentation noting the date the data recording was restored, (3) SCADA records, or (4) dated CAP transmittals to the Regional Entity and evidence that it implemented the CAP.

**Registered Entity Response (Required):**

**Question:** Did entity experience a failure of recording capability for SER, FR or DDR data?  Yes  No

If yes, provide a dated list of such failures including data type, data location, how discovered, and the discovery date.

[Note: A separate spreadsheet or another document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| If the entity experienced the failure of recording capability for SER, FR or DDR, the entity will provide (1) dated reports of discovery of a failure, (2) documentation noting the date the data recording was restored, or (3) dated CAP transmittals to the Regional Entity. NOTE- Align Periodic Data Submittals are used in conjunction with the Secure Evidence Locker for reporting CAPs for PRC-002-5 R12. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R12

***This section to be completed by the Compliance Enforcement Authority***

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|  | For a sample of recording device failures per Requirement R12, examine evidence and verify entity, upon discovery of the failure, within 90 calendar days, either restored the recording capability for the SER, FR or DDR data or submitted a CAP to its Regional Entity. |
|  | If the entity developed a CAP, verify CAP was implemented. |
| **Note to Auditor:** If the recording capability cannot be restored within 90 calendar days due to limitations such as budget cycle, service crews, vendors, needed outages, etc., the entity is required to submit a Corrective Action Plan for restoring the recording capability to the Regional Entity and implement it. It is treated as a failure if the recording capability is out of service for maintenance and/or testing for greater than 90 calendar days unless a CAP is submitted within those 90 days. An outage of the monitored Element does not constitute a failure of the disturbance monitoring capability.  Implementation means that an entity is following its documented CAP. For example, if the CAP calls for certain activities to be completed within specified timeframes, then the auditor can verify that such activities were completed for timeframes that have passed.  NOTE- Align Periodic Data Submittals are used for reporting CAPs for PRC-002-5 R12. The CAP should reside in the Secure Evidence Locker. The 90-calendar day clock starts upon date of discovery. Regions should follow up on CAPS provided through Align as the implementation date often occurs past the SEL evidence retention expectations. | |

Auditor Notes:

R13 Supporting Evidence and Documentation

**R13**.Each Transmission Owner and Generator Owner shall:

**13.1** Within three (3) calendar years of completing a re-evaluation or receiving notification under Requirement R1, Part 1.3, have SER or FR data as applicable for BES Elements directly connected to the identified BES buses.

**13.2** Within three (3) calendar years of receiving notification under Requirement R5, Part 5.4, have DDR data for BES Elements identified during the re-evaluation.

**M13**. The Transmission Owner or Generator Owner has dated evidence (electronic or hard copy) that meets Requirement R13. Evidence may include, but is not limited to: letters, emails, drawings, or settings files.

**Registered Entity Response (Required):**

**Question:** Did entity complete a re-evaluation or receive notification under either Requirement R1, Part 1.3 or under Requirement 5, Part 5.4?  Yes  No

If yes, provide a dated list of notifications or re-evaluations.

[Note: A separate spreadsheet or another document may be used. If so, provide the document reference below.]

**Registered Entity Response (Required):**

**Compliance Narrative:**

Provide a brief explanation, in your own words, of how you comply with this Requirement. References to supplied evidence, including links to the appropriate page, are recommended.

Evidence Requestedi:

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| **Provide the following evidence, or other evidence to demonstrate compliance.** |
| Records of equipment used to acquire DDR data for BES Elements and/or SER or FR data as applicable for BES Elements directly connected to the identified BES buses identified during the re-evaluation. |

Registered Entity Evidence (Required):

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| **The following information is requested for each document submitted as evidence. Also, evidence submitted should be highlighted and bookmarked, as appropriate, to identify the exact location where evidence of compliance may be found.** | | | | | |
| **File Name** | **Document Title** | **Revision or Version** | **Document Date** | **Relevant Page(s) or Section(s)** | **Description of Applicability of Document** |
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Audit Team Evidence Reviewed (This section to be completed by the Compliance Enforcement Authority):

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Compliance Assessment Approach Specific to PRC-002-5, R13

***This section to be completed by the Compliance Enforcement Authority***

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|  | For a sample of completed re-evaluations or received notifications under Requirement R1, Part 1.3, within three (3) calendar years of re-evaluation or receiving notification, verify the entity has SER or FR data as applicable for BES Elements directly connected to the identified BES buses. |
|  | For a sample of received notifications under Requirement R5, Part 5.4, within three (3) calendar years of notification, verify the entity has DDR data for BES Elements identified during re-evaluation. |
| **Note to Auditor:** | |

Auditor Notes:

Additional Information:

Reliability Standard



The full text of PRC-002-5 may be found on the NERC Web Site (www.nerc.com) under “Program Areas & Departments”, “Reliability Standards.”

In addition to the Reliability Standard, there is an applicable Implementation Plan available on the NERC Web Site.

In addition to the Reliability Standard, there is background information available on the NERC Web Site.

Capitalized terms in the Reliability Standard refer to terms in the NERC Glossary, which may be found on the NERC Web Site.

Sampling Methodology

Sampling is essential for auditing compliance with NERC Reliability Standards since it is not always possible or practical to test 100% of either the equipment, documentation, or both, associated with the full suite of enforceable standards. The Sampling Methodology Guidelines and Criteria (see NERC Web Site), or sample guidelines, provided by the Electric Reliability Organization help to establish a minimum sample set for monitoring and enforcement uses in audits of NERC Reliability Standards.

Regulatory Language

In the United States, Reliability Standard PRC-002-5 was approved in a letter order issued by FERC on February 20, 2025 in Docket No. RD25-2-000.

Revision History for RSAW

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| --- | --- | --- | --- |
| **Version** | **Date** | **Reviewers** | **Revision Description** |
| 1 | 4/1/2025 | NERC Compliance Assurance, OPCTF | New Document for FERC approved PRC-002-5 |
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1. NERC developed this Reliability Standard Audit Worksheet (RSAW) language in order to facilitate NERC’s and the Regional Entities’ assessment of a registered entity’s compliance with this Reliability Standard. The NERC RSAW language is written to specific versions of each NERC Reliability Standard. Entities using this RSAW should choose the version of the RSAW applicable to the Reliability Standard being assessed. While the information included in this RSAW provides some of the methodology that NERC has elected to use to assess compliance with the Requirements of the Reliability Standard, this document should not be treated as a substitute for the Reliability Standard or viewed as additional Reliability Standard Requirements. In all cases, the Regional Entity should rely on the language contained in the Reliability Standard itself, and not on the language contained in this RSAW, to determine compliance with the Reliability Standard. NERC’s Reliability Standards can be found on NERC’s website. Additionally, NERC Reliability Standards are updated frequently, and this RSAW may not necessarily be updated with the same frequency. Therefore, it is imperative that entities treat this RSAW as a reference document only, and not as a substitute or replacement for the Reliability Standard. It is the responsibility of the registered entity to verify its compliance with the latest approved version of the Reliability Standards, by the applicable governmental authority, relevant to its registration status. The NERC RSAW language contained within this document provides a non‑exclusive list, for informational purposes only, of examples of the types of evidence a registered entity may produce or may be asked to produce to demonstrate compliance with the Reliability Standard. A registered entity’s adherence to the examples contained within this RSAW does not necessarily constitute compliance with the applicable Reliability Standard, and NERC and the Regional Entity using this RSAW reserves the right to request additional evidence from the registered entity that is not included in this RSAW. Additionally, this RSAW includes excerpts from FERC Orders and other regulatory references. The FERC Order cites are provided for ease of reference only, and this document does not necessarily include all applicable Order provisions. In the event of a discrepancy between FERC Orders, and the language included in this document, FERC Orders shall prevail. [↑](#footnote-ref-1)
2. Compliance Assessment Date(s): The date(s) the actual compliance assessment (on-site audit, off-site spot check, etc.) occurs. [↑](#footnote-ref-2)
3. Items in the Evidence Requested section are suggested evidence that may but will not necessarily, demonstrate compliance. These items are not mandatory and other forms and types of evidence may be submitted at the entity’s discretion. [↑](#endnote-ref-1)