NERC Reliability Compliance Program (RCP) – CIP-002

Cyber Security – BES Cyber System Categorization

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| **Revision History** | | | |
| **Version** | **Date** | **Initials** | **Description** |
| 0 |  |  | Initial Document for CIP-002 |
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| **Signature** | | |
| **Names and Titles** | **Signature** | **Date** |
| «plantManagerName» Plant Manager, CSM Delegate |  |  |
| «cipSeniorManagerName» CIP Senior Manager |  |  |

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# INTRODUCTION

«plant» («plantAcronym») is an «plantCapacity» MW Electric Generating Facility, located at «city»/«state». The North American Electric Reliability Corporation (NERC) has developed mandatory Reliability Standards that apply to entities performing various electric system functions as defined in the NERC Reliability Functional Model and the Glossary of Terms. «plantAcronym» is registered with NERC and «reName» («reAcronym») as a **Generator Owner** **(GO)** and **Generator Operator (GOP)**. As such, «plantAcronym» is required to comply with those requirements of any NERC Reliability Standards that apply to «plantAcronym» acting in any of these capacities.

To demonstrate its compliance with all applicable NERC Reliability Standard Requirements and any associated «reAcronym» regional differences, «plantAcronym» has developed a series of compliance Policies, Guidelines, and Procedures that make up its (RCP).

# PURPOSE

The purpose of this procedure is to describe the process by which «plantAcronym» shall comply with its obligations under the NERC Reliability Standard CIP-002 – Cyber Security – BES Cyber System Categorization. It describes the policies and procedures to be followed to be compliant with these requirements as well as any internal «plantAcronym» procedures related to identifying and categorizing BES Cyber Systems (BCS) and their associated BES Cyber Assets (BCA) for the application of cyber security requirements commensurate with the adverse impact that loss, compromise, or misuse of those BCS could have on the reliable operation of the Bulk Electric System (BES).

# REFERENCES

* 1. NERC Reliability Standard CIP-002 – Cyber Security – BES Cyber System Categorization
  2. NERC Reliability Standard CIP-002 – Attachment 1

# DEFINITIONS AND DEFINED TERMS

Capitalized terms used herein but are not defined shall have the meaning ascribed to such term in the “Glossary of Terms Used in NERC Reliability Standards” found at <https://www.nerc.com/pa/Stand/Glossary%20of%20Terms/Glossary_of_Terms.pdf>.

* 1. **BES Cyber System:** One or more BES Cyber Assets logically grouped by a responsible entity to perform one or more reliability tasks for a functional entity.
  2. **BES Cyber Asset:** A Cyber Asset that if rendered unavailable, degraded, or misused would, within 15 minutes of its required operation, Misoperation, or non-operation, adversely impact one or more Facilities, systems, or equipment, which, if destroyed, degraded, or otherwise rendered unavailable when needed, would affect the reliable operation of the Bulk Electric System. Redundancy of affected Facilities, systems, and equipment shall not be considered when determining adverse impact. Each BES Cyber Asset is included in one or more BES Cyber Systems.
  3. **CIP Senior Manager:** A single senior management official with overall authority and responsibility for leading and managing implementation of and continuing adherence to the requirements within the NERC CIP Standards, CIP-002 through CIP-011.
  4. **Control Center:** One or more facilities hosting operating personnel that monitor and control the Bulk Electric System (BES) in real-time to perform the reliability tasks, including their associated data centers, of: 1) a Reliability Coordinator, 2) a Balancing Authority, 3) a Transmission Operator for transmission Facilities at two or more locations, or 4) a Generator Operator for generation Facilities at two or more locations.
  5. **Cranking Path:** A portion of the electric system that can be isolated and then energized to deliver electric power from a generation source to enable the startup of one or more other generating units.
  6. **Special Protection Systems (Remedial Action Scheme):** A scheme designed to detect predetermined System conditions and automatically take corrective actions that may include, but are not limited to, adjusting or tripping generation (MW and MVAR), tripping load, or reconfiguring a System(s). RAS accomplish objectives such as:
* Meet requirements identified in the NERC Reliability Standards.
* Maintain Bulk Electric System (BES) stability.
* Maintain acceptable BES voltages.
* Maintain acceptable BES power flows.
* Limit the impact of Cascading or extreme events.

# APPLICABILITY

«plantAcronym» is registered with NERC as a **GO & GOP** and as such, is required to comply with NERC Reliability Standard CIP-002 **R1 and R2.**

# RESPONSIBILITIES

**Procedure Review and Approval**: Everline Compliance, LLC (EVERLINE), consultant retained by «plantAcronym» to manage the facility’s NERC compliance program, is responsible for maintaining the information contained in this procedure to ensure that it is current and up to date including tracking changes to the applicable NERC Reliability Standards. The Plant Manager is responsible for the review and approval of this procedure.

**Procedure Implementation:** The Compliance Manager is responsible for implementing the compliance measures contained in this procedure. The Plant Manager is responsible for confirming that the compliance measures were properly implemented, and that evidence is maintained and provided to EVERLINE upon request.

**Procedure Compliance:** EVERLINE is responsible for preparing responses to requests by authorized internal and external regulatory compliance personnel for «plantAcronym» compliance documentation. Plant Personnel are responsible for complying with this procedure, documenting compliance measures when performed, and providing compliance evidence for completed compliance measures.

# REQUIREMENTS, MEASURES, AND COMPLIANCE DOCUMENTATION

Those Requirements (**boldface**) of NERC Reliability Standard CIP-002 that apply to «plantAcronym», and the compliance measures (*italicized*), are as follows:

* 1. **CIP-002-5.1a REQUIREMENT 1**

**R1. Each Responsible Entity shall implement a process that considers each of the following assets for purposes of parts 1.1 through 1.3:**

1. **Control Centers and backup Control Centers**
2. **Transmission stations and substations**
3. **Generation resources**
4. **Systems and facilities critical to system restoration, including Blackstart Resources and Cranking Paths and initial switching requirements**
5. **Special Protection Systems that support the reliable operation of the Bulk Electric System; and**
6. **For Distribution Providers, Protection Systems specified in Applicability section 4.2.1 above.**
7. **Identify each of the high impact BES Cyber Systems according to Attachment 1, Section 1, if any, at each asset**
   1. **Identify each of the medium impact BES Cyber Systems according to Attachment 1, Section 2, if any, at each asset; and**
   2. **Identify each asset that contains a low impact BES Cyber System according to Attachment 1, Section 3, if any (a discrete list of low impact BES Cyber Systems is not required).**

*M1. Acceptable evidence includes, but is not limited to, dated electronic or physical lists required by Requirement R1, and Parts 1.1 and 1.2.*

* + 1. **CIP-002-5.1a R1 ACTIONS AND DOCUMENTATION**

Using the Impact Rating Criteria set forth and contained in NERC Reliability Standard CIP-002 – Attachment 1, «plantAcronym» has identified the impact rating of each BCA. «plantAcronym»-NERC-RCP-CIP-002-ATT-A – BCS Categorization describes «plantAcronym»’s top-down BCS Categorization methodology.

Assets that have been identified as medium or high impact to the BES and their associated BCS have been identified and documented in «plantAcronym»-NERC-RCP-CIP-002-ATT-A – BCS Categorization.**(R1.1 & R1.2)**

«plantAcronym»’s assets that contain low impact BCS have been identified in «plantAcronym»-NERC-RCP-CIP-002-ATT-A – BCS Categorization. **(R1.3)**

«plantAcronym» will capture and maintain the following evidentiary documentation to demonstrate compliance with CIP-002 R1:

**E1.** «plantAcronym» **BES Categorization Table**

* Evidence of «plantAcronym»’s evaluation of their BCAs and identification of which assets contain a low impact BCS.
  + «plantAcronym»-NERC-RCP-CIP-002-ATT-A – BCS Categorization, “Evaluation” tabulation.
  1. **CIP-002 REQUIREMENT 2**

**R2. The Responsible Entity shall:**

* 1. **Review the identifications in Requirement R1 and its parts (and update them if there are changes identified) at least once every 15 calendar months, even if it has no identified items in Requirement R1, and**
  2. **Have its CIP Senior Manager or delegate approve the identifications required by Requirement R1 at least once every 15 calendar months, even if it has no identified items in Requirement R1.**

*M2. Acceptable evidence includes, but is not limited to, electronic or physical dated records to demonstrate that the Responsible Entity has reviewed and updated, where necessary, the identifications required in Requirement R1 and its parts, and has had its CIP Senior Manager or delegate approve the identifications required in Requirement R1 and its parts at least once every 15 calendar months, even if it has none identified in Requirement R1 and its parts, as required by Requirement R2.*

* + 1. **CIP-002 REQUIREMENT 2**

At least once every fifteen (15) calendar months, the GO & GOP at «plantAcronym» shall review the BCS Categorization and associated medium or high impact BCS and associated BCAs in «plantAcronym»-NERC-RCP-CIP-002-ATT-A - BCS Categorization, even if it has no identified items in Requirement R1. **(R2.1)**

«plantAcronym» shall update «plantAcronym»-NERC-RCP-CIP-002-ATT-A – BCS Categorization if there are any changes. The review, update, and approval process are documented within each document where applicable. «plantAcronym» CIP Senior Manager (CSM) will review and approve the identifications required by Requirement R1 at least once every fifteen (15) calendar months, even if «plantAcronym» has no identified items in Requirement R1. **(R2.2)**

«plantAcronym» will capture and maintain the following evidentiary documentation to demonstrate compliance with CIP-002 R2:

**E1. Revision/Annual History table and CSM Approval signature**

* Evidence of the CSMs periodic review and approval every fifteen (15) calendar months of the documentation required for CIP-002 R1.
  + «plantAcronym»-NERC-RCP-CIP-002-ATT-A - BCS Categorization, “Cover” tabulation.

# INTERNAL CONTROLS

* 1. **Preventative:** «plantAcronym» and EVERLINE will review this policy annually.
  2. **Detective:** EVERLINE will conduct a Self-Assessment of compliance with NERC Reliability Standard CIP-002 at least once every three (3) years.
  3. **Corrective:** If a deficiency is discovered, EVERLINE will work with «plantAcronym» to submit a Self-Report to «reAcronym» and implement corrective action and mitigation plans.

# RECORD RETENTION

«plantAcronym» shall retain evidence of each requirement for three (3) calendar years, unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer time period as part of an investigation.

# TRAINING REQUIREMENTS

* 1. None.

# ATTACHMENTS

* 1. «plantAcronym»-NERC-RCP-CIP-002-ATT-A – BCS Categorization