



New Brunswick Energy and Utilities Board

Reliability Standards, Compliance and Enforcement Program

New Brunswick 2018 Annual Implementation Plan

Version 1

December 28, 2017

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Version History

Version	Date	Changes
Draft	November 9, 2017	Initial Release
1	December 28, 2017	<ul style="list-style-type: none"> -Planning Coordinator (PC) changed to Planning Authority (PA) throughout -Removed Transmission Operator (TOP) function from FAC-014-2 monitoring and added Planning Authority (PA) and Transmission Planner (TP) -Removed Reliability Coordinator (RC) monitoring from TOP-001-4

1.0 Background

1.1 New Brunswick Compliance Framework

The [New Brunswick Energy and Utilities Board \(NBEUB\)](#) has the responsibility under the [Electricity Act](#) to adopt and enforce reliability standards in accordance with the [Reliability Standards Regulation \(Regulations\)](#).

1.1.1 Reliability Standards

The NBEUB adopts North American Electric Reliability Corporation (NERC) reliability standards that have been approved by the Federal Energy Regulatory Commission (FERC) and filed by New Brunswick Power Corporation (NB Power), with or without modifications for application in New Brunswick (NB). NB [Approved Reliability Standards \(Reliability Standards\)](#) are posted on the NBEUB website.

1.1.2 NB Bulk Power System (BPS)

The BPS in NB is determined according to the FERC approved definition of the bulk electric system, as it appears in the “NERC Glossary of Terms Used in Reliability Standards”. Under NB Regulations, the NBEUB may approve exceptions to the NB BPS.

1.1.3 Compliance Registry

The NBEUB maintains a [NB Compliance Registry](#) identifying those owners, users and operators of the BPS who must comply with Reliability Standards. NB registration requirements are generally based on the NERC functional model and registry criteria. The NB Compliance Registry is posted on the NBEUB website.

1.1.4 Compliance Monitoring

The NBEUB implements a compliance monitoring system for Reliability Standards that is generally based on the requirements of the NERC compliance program. The NB program is documented as the [New Brunswick Compliance Monitoring and Enforcement Program \(NB CMEP\) – Schedule A](#) to the Regulations. The NBEUB engages the Northeast Power Coordinating Council Inc. (NPCC), as a recognized compliance body under the Regulations, to assist with compliance monitoring activities in NB.

1.1.5 Enforcement

The NBEUB implements enforcement processes to ensure Registered Entities mitigate risks to reliability and may impose financial penalties and sanctions for violations of Reliability Standards. NPCC makes recommendations to the NBEUB, which may involve consultations with NERC, for enforcement action in NB.

2.0 New Brunswick Annual Implementation Plan (NB AIP)

2.1 Purpose

The purpose of the NB AIP is to identify the Reliability Standards that will be monitored in the upcoming year, the monitoring methods that will be used, and Registered Entity audit and compliance reporting schedules.

2.2 Development Process

The 2018 NB AIP is developed from the [NERC 2018 ERO Enterprise Compliance Monitoring and Enforcement Program Implementation Plan](#) (NERC IP), the NPCC 2018 CMEP Implementation Plan-Appendix A3 to the NERC IP (NPCC IP) and NB specific requirements.

The 2018 NERC IP takes into account continent wide risks to the reliability of the BPS and focuses compliance monitoring on Reliability Standards relating to Critical Infrastructure Protection(CIP), extreme physical events, maintenance and management of BPS assets, monitoring and situational awareness, protection system failures, event response and recovery, human performance and planning and system analysis.

The 2018 NPCC IP takes into consideration regional reliability risks and expands on the NERC IP to include additional compliance monitoring for Reliability Standards related to maintenance and management of BPS assets, event response and recovery, extreme physical events, monitoring and situational awareness and human performance.

The 2018 NB AIP includes NB specific requirements to address reliability risks associated with previous compliance history and new compliance responsibilities. The 2018 NB AIP also provides for self-certification monitoring of Requirements that were deferred from auditing in 2017 as the result of an Internal Controls Evaluation.

Appendix 1 Table 1 lists the Reliability Standards that will be the focus of compliance monitoring for 2018.

2.3 Approval Process

NBEUB compliance staff, in consultation with NPCC, prepares a draft NB AIP. The NBEUB notifies NB Registered Entities and posts the draft NB AIP on its website for comments. At the end of the comment period the NBEUB will finalize the NB AIP and post the final version on its web site by January 1 of the monitoring year. The NB AIP may be subject to revision during the compliance year. In year revisions are typically not posted for comment, however Registered Entities will be notified of any revisions to the NB AIP and updated versions will be posted on the NBEUB website.

3.0 Compliance Monitoring

3.1 Audits

Audits will be carried out according to the schedules set out in the NB AIP. The NBEUB may also initiate unscheduled audits. The NBEUB will provide an initial notice to the Registered Entity confirming the pending audit and identify NPCC as the compliance body that will conduct the audit. NBEUB compliance staff will participate on the NPCC audit team. NPCC will provide an audit notice to the Registered Entity at least 60 days prior the audit date identifying the scope of the audit and audit team members. Audits may also include a review of any open investigations or mitigation actions related to the Registered Entity. The audit team will conduct the audit, prepare an audit report and review the report with the Registered Entity prior to forwarding it to the NBEUB. The NBEUB will review the report and provide the final audit report to the Registered Entity prior to posting a public version on its website. If an audit report identifies a potential violation, the audit report will not be released until the enforcement process is completed.

There are no Audits scheduled for 2018.

3.2 Self-Certifications

All Registered Entities are subject to reporting self-certification of compliance to the NBEUB according to the schedules established in the NB AIP. Self-certifications are made through the NBEUB [Compliance Monitoring and Reporting System \(CMRS\)](#).

The NBEUB may initiate enforcement action for a late or non-submittal of a self-certification report.

The 2018 reporting schedules for self-certifications are set out in Appendix 3, Tables 2 to 6 (Type SC).

3.3 Spot Checks

The NBEUB may initiate a spot check at any time to verify a Registered Entity's compliance with a Reliability Standard. The NBEUB will provide the Registered Entity at least 20 days advanced notice of a spot check. Spot checks may be conducted by NBEUB compliance staff or by NPCC. The spot check process will require the Registered Entity to submit documentation that will be assessed by the spot check team to determine if a Registered Entity is in compliance with the Reliability Standard.

A draft spot check report will be prepared and made available to the Registered Entity for comments prior to being finalized. The NBEUB will provide the Registered Entity with a final spot check report.

Registered Entities that have had previous potential violations of Reliability Standards may be subject to spot checks for those Reliability Standards in 2018.

3.4 Periodic Data Submittals

Certain Reliability Standards contain provisions for the periodic reporting of data. Periodic data reports

are made through the NBEUB CMRS according to the schedules established in the NB AIP.

The 2018 reporting schedules for data submittals are set out in Appendix 3, Tables 2 to 6 (Type PD).

3.5 Self-Reporting

A Registered Entity may self-report a possible violation with a Reliability Standard to the NBEUB through the NBEUB CMRS.

3.6 Compliance Investigations

The NBEUB may initiate a compliance investigation at any time in response to a system disturbance, complaint, suspected violation of a Reliability Standard, or on a recommendation from NERC or NPCC.

3.7 Complaints

A person may notify the NBEUB of a possible violation of a Reliability Standard by completing a [compliance complaint form](#) on the NBEUB website.

Appendix 1- Reliability Standards Subject to Active Compliance Monitoring in 2018

Table 1 - Reliability Standards List

Standard	Title
BAL-002-1	Disturbance Control Performance
BAL-003-1.1	Frequency Response and Frequency Bias Setting
CIP-002-5.1a	Cyber Security — BES Cyber System Categorization
CIP-003-6	Cyber Security — Security Management Controls
CIP-004-6	Cyber Security — Personnel & Training
CIP-005-5	Cyber Security — Electronic Security Perimeter(s)
CIP-006-6	Cyber Security — Physical Security of BES Cyber Systems
CIP-007-6	Cyber Security — System Security Management
CIP-008-5	Cyber Security — Incident Reporting and Response Planning
CIP-009-6	Cyber Security — Recovery Plans for BES Cyber Systems
CIP-010-2	Cyber Security — Configuration Change Management and Vulnerability Assessments
CIP-011-2	Cyber Security — Information Protection
CIP-014-2	Physical Security
COM-002-4	Operating Personnel Communications Protocols
EOP-004-3	Event Reporting
EOP-005-2	System Restoration from Blackstart Resources
EOP-006-2	System Restoration Coordination
EOP-008-1	Loss of Control Center Functionality
EOP-010-1	Geomagnetic Disturbance Operations
EOP-011-1	Emergency Operations
FAC-003-4	Transmission Vegetation Management
FAC-008-3	Facility Ratings
FAC-014-2	Establish and communicate System Operating Limits
IRO-001-4	Reliability Coordination – Responsibilities

Table 1 - Reliability Standards List (cont.)

Standard	Title
IRO-002-5	Reliability Coordination – Monitoring and Analysis
IRO-008-2	Reliability Coordinator Operational Analyses and Real-time Assessments
IRO-009-2	Reliability Coordinator Actions to Operate Within IROLs
IRO-018-1(i)	Reliability Coordinator Real-time Reliability Monitoring and Analysis Capabilities
MOD-025-2	Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability
MOD-032-1	Data for Power System Modeling and Analysis
PER-005-2	Operations Personnel Training
PRC-001-1.1(ii)	System Protection Coordination
PRC-004-5(i)	Protection System Misoperation Identification and Correction
PRC-005-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance
PRC-006-2	Automatic Underfrequency Load Shedding
PRC-006-NPCC-1	Automatic Underfrequency Load Shedding
PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection
PRC-023-4	Transmission Relay Loadability
PRC-024-2	Generator Frequency and Voltage Protective Relay Settings
TOP-001-3	Transmission Operations
TOP-001-4	Transmission Operations
TOP-002-4	Operations Planning
TOP-010-1(i)	Real-time Reliability Monitoring and Analysis Capabilities
TPL-001-4	Transmission System Planning Performance Requirements
TPL-007-1	Transmission System Planned Performance for Geomagnetic Disturbance Events
VAR-001-4.1	Voltage and Reactive Control
VAR-002-4	Generator Operation for Maintaining Network Voltage Schedules

Note: The above table lists Reliability Standards that have been identified by the NBEUB as areas of focus for compliance monitoring in 2018, however Registered Entities are required to be compliant with all Reliability Standards applicable to their registration functions and therefore may be subject to additional compliance monitoring in 2018.

Appendix 2 – Annual Audit Plan

There are no Audits scheduled for 2018.

Appendix 3 – Compliance Reporting Schedules

Table 2 – Canadian Hydro Developers, Inc. 2018 Compliance Reporting Schedule

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Canadian Hydro Developers	GO	FAC-003-4	Transmission Vegetation Management	PD		01/01/2018	03/31/2018	04/20/2018
Canadian Hydro Developers	GO	FAC-003-4	Transmission Vegetation Management	PD		04/01/2018	07/31/2018	08/20/2018
Canadian Hydro Developers	GO	FAC-003-4	Transmission Vegetation Management	PD		08/01/2018	09/30/2018	10/20/2018
Canadian Hydro Developers	GO	FAC-003-4	Transmission Vegetation Management	PD		10/01/2018	12/31/2018	01/20/2019
Canadian Hydro Developers	GO, GOP	CIP-002-5.1a	Cyber Security — BES Cyber System Categorization	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO, GOP	CIP-003-6	Cyber Security — Security Management Controls	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO, GOP	CIP-004-6	Cyber Security — Personnel & Training	SC	R2	01/01/2018	12/31/2018	03/20/2019

Table 2 – Canadian Hydro Developers, Inc. 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Canadian Hydro Developers	GO, GOP	CIP-005-5	Cyber Security — Electronic Security Perimeter(s)	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO, GOP	CIP-006-6	Cyber Security — Physical Security of BES Cyber Systems	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO, GOP	CIP-007-6	Cyber Security — System Security Management	SC	R1, R2, R3, R5	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO, GOP	CIP-008-5	Cyber Security-Incident Reporting and Response Planning	SC	R2, R3	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO, GOP	CIP-009-6	Cyber Security — Recovery Plans for BES Cyber Systems	SC	R2, R3	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GOP	COM-002-4	Operating Personnel Communications Protocols	SC	R3	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GOP	EOP-005-2	System Restoration from Blackstart Resources	SC	R13, R14	01/01/2018	12/31/2018	03/20/2019

Table 2 – Canadian Hydro Developers, Inc. 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Canadian Hydro Developers	GO	FAC-003-4	Transmission Vegetation Management	SC	R1, R2, R6, R7	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO	FAC-008-3	Facility Ratings	SC	R6	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO	MOD-025-2	Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO	MOD-032-1	Data for Power System Modeling and Analysis	SC	R2	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GOP	PER-005-2	Operations Personnel Training	SC	R6	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GOP	PRC-001-1.1(ii)	System Protection Coordination	SC	R3, R5	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO	PRC-004-5(i)	Protection System Misoperation Identification and Correction	SC	R1, R5	01/01/2018	12/31/2018	03/20/2019

Table 2 – Canadian Hydro Developers, Inc. 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Canadian Hydro Developers	GO	PRC-005-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance	SC	R1, R3, R4, R5	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO	PRC-006-NPCC-1	Automatic Underfrequency Load Shedding	SC	R13	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO	PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	SC	R1	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO	PRC-024-2	Generator Frequency and Voltage Protective Relay Settings	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Canadian Hydro Developers	GO, GOP	VAR-002-4	Generator Operation for Maintaining Network Voltage Schedules	SC	R2	01/01/2018	12/31/2018	03/20/2019

Table 3 – Caribou 2018 Compliance Reporting Schedule

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Caribou	GO	FAC-003-4	Transmission Vegetation Management	PD		01/01/2018	03/31/2018	04/20/2018
Caribou	GO	FAC-003-4	Transmission Vegetation Management	PD		04/01/2018	07/31/2018	08/20/2018
Caribou	GO	FAC-003-4	Transmission Vegetation Management	PD		08/01/2018	09/30/2018	10/20/2018
Caribou	GO	FAC-003-4	Transmission Vegetation Management	PD		10/01/2018	12/31/2018	01/20/2019
Caribou	GO, GOP	CIP-002-5.1a	Cyber Security — BES Cyber System Categorization	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Caribou	GO, GOP	CIP-003-6	Cyber Security — Security Management Controls	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
Caribou	GO, GOP	CIP-004-6	Cyber Security — Personnel & Training	SC	R2	01/01/2018	12/31/2018	03/20/2019
Caribou	GO, GOP	CIP-005-5	Cyber Security — Electronic Security Perimeter(s)	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Caribou	GO, GOP	CIP-006-6	Cyber Security — Physical Security of BES Cyber Systems	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
Caribou	GO, GOP	CIP-007-6	Cyber Security — System Security Management	SC	R1, R2, R3, R5	01/01/2018	12/31/2018	03/20/2019
Caribou	GO, GOP	CIP-008-5	Cyber Security-Incident Reporting and Response Planning	SC	R2, R3	01/01/2018	12/31/2018	03/20/2019
Caribou	GO, GOP	CIP-009-6	Cyber Security — Recovery Plans for BES Cyber Systems	SC	R2, R3	01/01/2018	12/31/2018	03/20/2019
Caribou	GOP	COM-002-4	Operating Personnel Communications Protocols	SC	R3	01/01/2018	12/31/2018	03/20/2019

Table 3 – Caribou 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Caribou	GOP	EOP-005-2	System Restoration from Blackstart Resources	SC	R13, R14	01/01/2018	12/31/2018	03/20/2019
Caribou	GO	FAC-003-4	Transmission Vegetation Management	SC	R1, R2, R6, R7	01/01/2018	12/31/2018	03/20/2019
Caribou	GO	FAC-008-3	Facility Ratings	SC	R6	01/01/2018	12/31/2018	03/20/2019
Caribou	GO	MOD-025-2	Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Caribou	GO	MOD-032-1	Data for Power System Modeling and Analysis	SC	R2	01/01/2018	12/31/2018	03/20/2019
Caribou	GOP	PER-005-2	Operations Personnel Training	SC	R6	01/01/2018	12/31/2018	03/20/2019
Caribou	GOP	PRC-001-1.1(ii)	System Protection Coordination	SC	R3, R5	01/01/2018	12/31/2018	03/20/2019
Caribou	GO	PRC-004-5(i)	Protection System Misoperation Identification and Correction	SC	R1, R5	01/01/2018	12/31/2018	03/20/2019
Caribou	GO	PRC-005-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance	SC	R1, R3, R4, R5	01/01/2018	12/31/2018	03/20/2019
Caribou	GO	PRC-006-NPCC-1	Automatic Underfrequency Load Shedding	SC	R13	01/01/2018	12/31/2018	03/20/2019
Caribou	GO	PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	SC	R1	01/01/2018	12/31/2018	03/20/2019

Table 3 – Caribou 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Caribou	GO	PRC-024-2	Generator Frequency and Voltage Protective Relay Settings	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Caribou	GO, GOP	VAR-002-4	Generator Operation for Maintaining Network Voltage Schedules	SC	R2	01/01/2018	12/31/2018	03/20/2019

Table 4 – Emera 2018 Compliance Reporting Schedule

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Emera	GO	FAC-003-4	Transmission Vegetation Management	PD		01/01/2018	03/31/2018	04/20/2018
Emera	GO	FAC-003-4	Transmission Vegetation Management	PD		04/01/2018	07/31/2018	08/20/2018
Emera	GO	FAC-003-4	Transmission Vegetation Management	PD		08/01/2018	09/30/2018	10/20/2018
Emera	GO	FAC-003-4	Transmission Vegetation Management	PD		10/01/2018	12/31/2018	01/20/2019
Emera	GO, GOP	CIP-002-5.1a	Cyber Security — BES Cyber System Categorization	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Emera	GO, GOP	CIP-003-6	Cyber Security — Security Management Controls	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
Emera	GO, GOP	CIP-004-6	Cyber Security — Personnel & Training	SC	R2	01/01/2018	12/31/2018	03/20/2019
Emera	GO, GOP	CIP-005-5	Cyber Security — Electronic Security Perimeter(s)	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Emera	GO, GOP	CIP-006-6	Cyber Security — Physical Security of BES Cyber Systems	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
Emera	GO, GOP	CIP-007-6	Cyber Security — System Security Management	SC	R1, R2, R3, R5	01/01/2018	12/31/2018	03/20/2019
Emera	GO, GOP	CIP-008-5	Cyber Security — Incident Reporting and Response Planning	SC	R2, R3	01/01/2018	12/31/2018	03/20/2019
Emera	GO, GOP	CIP-009-6	Cyber Security — Recovery Plans for BES Cyber Systems	SC	R2, R3	01/01/2018	12/31/2018	03/20/2019
Emera	GOP	COM-002-4	Operating Personnel Communications Protocols	SC	R3	01/01/2018	12/31/2018	03/20/2019

Table 4 – Emera 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Emera	GOP	EOP-005-2	System Restoration from Blackstart Resources	SC	R13, R14	01/01/2018	12/31/2018	03/20/2019
Emera	GO	FAC-003-4	Transmission Vegetation Management	SC	R1, R2, R6, R7	01/01/2018	12/31/2018	03/20/2019
Emera	GO	FAC-008-3	Facility Ratings	SC	R6	01/01/2018	12/31/2018	03/20/2019
Emera	GO	MOD-025-2	Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Emera	GO	MOD-032-1	Data for Power System Modeling and Analysis	SC	R2	01/01/2018	12/31/2018	03/20/2019
Emera	GOP	PER-005-2	Operations Personnel Training	SC	R6	01/01/2018	12/31/2018	03/20/2019
Emera	GOP	PRC-001-1.1(ii)	System Protection Coordination	SC	R3, R5	01/01/2018	12/31/2018	03/20/2019
Emera	GO	PRC-004-5(i)	Protection System Misoperation Identification and Correction	SC	R1, R5	01/01/2018	12/31/2018	03/20/2019
Emera	GO	PRC-005-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance	SC	R1, R3, R4, R5	01/01/2018	12/31/2018	03/20/2019
Emera	GO	PRC-006-NPCC-1	Automatic Underfrequency Load Shedding	SC	R13	01/01/2018	12/31/2018	03/20/2019
Emera	GO	PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	SC	R1	01/01/2018	12/31/2018	03/20/2019

Table 4 – Emera 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Emera	GO	PRC-024-2	Generator Frequency and Voltage Protective Relay Settings	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Emera	GO, GOP	VAR-002-4	Generator Operation for Maintaining Network Voltage Schedules	SC	R2	01/01/2018	12/31/2018	03/20/2019

Table 5 – NB Power 2018 Compliance Reporting Schedule

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
NB Power	GO	FAC-003-4	Transmission Vegetation Management	PD		01/01/2018	03/31/2018	04/20/2018
NB Power	GO	FAC-003-4	Transmission Vegetation Management	PD		04/01/2018	07/31/2018	08/20/2018
NB Power	GO	FAC-003-4	Transmission Vegetation Management	PD		08/01/2018	09/30/2018	10/20/2018
NB Power	BA, RC, TOP	TOP-001-3	Transmission Operations	SC	R7, R10, R11, R12, R13, R14, R15, R16, R18, R19	01/01/2018	09/30/2018	10/20/2018
NB Power	GO	FAC-003-4	Transmission Vegetation Management	PD		10/01/2018	12/31/2018	01/20/2019
NB Power	BA	BAL-002-1	Disturbance Control Performance	SC	R1, R3	01/01/2018	12/31/2018	03/20/2019
NB Power	BA	BAL-003-1.1	Frequency Response and Frequency Bias Setting	SC	R1	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, DP, GO, GOP, RC, TO, TOP	CIP-002-5.1a	Cyber Security — BES Cyber System Categorization	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
NB Power	GO, GOP, TO, DP	CIP-003-6	Cyber Security — Security Management Controls	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019

Table 5 – NB Power 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
NB Power	BA, GO, GOP, RC, TO, TOP	CIP-004-6	Cyber Security — Personnel & Training	SC	R2	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, DP, GO, GOP, RC, TO, TOP	CIP-005-5	Cyber Security — Electronic Security Perimeter(s)	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, DP, GO, GOP, RC, TO, TOP	CIP-006-6	Cyber Security — Physical Security of BES Cyber Systems	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, DP, GO, GOP, RC, TO, TOP	CIP-007-6	Cyber Security — System Security Management	SC	R1, R2, R3, R4, R5	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, GO, GOP, RC, TO, TOP	CIP-008-5	Cyber Security — Incident Reporting and Response Planning	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, GO, GOP, RC, TO, TOP	CIP-009-6	Cyber Security — Recovery Plans for BES Cyber Systems	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
NB Power	TO	CIP-010-2	Cyber Security — Configuration Change Management and Vulnerability Assessments	SC	R1, R2, R3, R4	01/01/2018	12/31/2018	03/20/2019

Table 5 – NB Power 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
NB Power	TO	CIP-011-2	Cyber Security — Information Protection	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
NB Power	TO	CIP-014-2	Physical Security	SC	R1, R2, R3, R4, R5, R6	01/01/2018	12/31/2018	03/20/2019
NB Power	RC, BA, TOP, DP, GOP	COM-002-4	Operating Personnel Communications Protocols	SC	R1, R2, R3, R4, R5, R7	01/01/2018	12/31/2018	03/20/2019
NB Power	RC, BA, TOP	EOP-004-3	Event Reporting	SC	R3	01/01/2018	12/31/2018	03/20/2019
NB Power	TOP, GOP	EOP-005-2	System Restoration from Blackstart Resources	SC	R1, R9, R10, R13, R14	01/01/2018	12/31/2018	03/20/2019
NB Power	RC	EOP-006-2	System Restoration Coordination	SC	R1, R9, R10	01/01/2018	12/31/2018	03/20/2019
NB Power	RC	EOP-008-1	Loss of Control Center Functionality	SC	R3	01/01/2018	12/31/2018	03/20/2019
NB Power	RC, TOP	EOP-010-1	Geomagnetic Disturbance Operations	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, TOP	EOP-011-1	Emergency Operations	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
NB Power	GO, TO	FAC-003-4	Transmission Vegetation Management	SC	R1, R2, R6, R7	01/01/2018	12/31/2018	03/20/2019

Table 5 – NB Power 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
NB Power	GO, TO	FAC-008-3	Facility Ratings	SC	R3, R4, R6	01/01/2018	12/31/2018	03/20/2019
NB Power	RC, PA, TP	FAC-014-2	Establish and communicate System Operating Limits	SC	R1, R5	01/01/2018	12/31/2018	03/20/2019
NB Power	RC, TOP	IRO-001-4	Reliability Coordination – Responsibilities	SC	R1	01/01/2018	12/31/2018	03/20/2019
NB Power	RC	IRO-002-5	Reliability Coordination – Monitoring and Analysis	SC	R5, R6	01/01/2018	12/31/2018	03/20/2019
NB Power	RC	IRO-008-2	Reliability Coordinator Operational Analyses and Real-time Assessments	SC	R1, R2, R4, R5	01/01/2018	12/31/2018	03/20/2019
NB Power	RC	IRO-009-2	Reliability Coordinator Actions to Operate Within IROLs	SC	R2	01/01/2018	12/31/2018	03/20/2019
NB Power	RC	IRO-018-1(i)	Reliability Coordinator Real-time Reliability Monitoring and Analysis Capabilities	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
NB Power	GO, TO	MOD-025-2	Verification and Data Reporting of Generator Real and Reactive Power Capability and Synchronous Condenser Reactive Power Capability	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
NB Power	GO	MOD-026-1	Verification of Models and Data for Generator Excitation Control System or Plant Volt/Var Control Functions	SC	R2	01/01/2018	12/31/2018	03/20/2019
NB Power	GO	MOD-027-1	Verification of Models and Data for Turbine/Governor and Load Control or Active Power/Frequency Control Functions	SC	R2	01/01/2018	12/31/2018	03/20/2019

Table 5 – NB Power 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
NB Power	BA, GO, RP, TO, TSP	MOD-032-1	Data for Power System Modeling and Analysis	SC	R2	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, GOP, RC, TOP, TO	PER-005-2	Operations Personnel Training	SC	R1, R2, R3, R4, R6	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, GOP, TOP	PRC-001-1.1(ii)	System Protection Coordination	SC	R3, R4, R5, R6	01/01/2018	12/31/2018	03/20/2019
NB Power	GO, TO	PRC-004-5(i)	Protection System Misoperation Identification and Correction	SC	R1, R5	01/01/2018	12/31/2018	03/20/2019
NB Power	DP, GO, TO	PRC-005-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance	SC	R1, R3, R4, R5	01/01/2018	12/31/2018	03/20/2019
NB Power	PA	PRC-006-2	Automatic Underfrequency Load Shedding	SC	R3, R4	01/01/2018	12/31/2018	03/20/2019
NB Power	DP, GO, TO	PRC-006-NPCC-1	Automatic Underfrequency Load Shedding	SC	R4, R7, R13	01/01/2018	12/31/2018	03/20/2019
NB Power	GO, TO	PRC-019-2	Coordination of Generating Unit or Plant Capabilities, Voltage Regulating Controls, and Protection	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
NB Power	TO	PRC-023-4	Transmission Relay Loadability	SC	R1	01/01/2018	12/31/2018	03/20/2019
NB Power	GO	PRC-024-2	Generator Frequency and Voltage Protective Relay Settings	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019

Table 5 – NB Power 2018 Compliance Reporting Schedule (cont)

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
NB Power	BA, TOP	TOP-001-4	Transmission Operations	SC	R7, R10, R11, R12, R13, R14, R15, R16, R18, R19	10/01/2018	12/31/2018	03/20/2019
NB Power	BA, TOP	TOP-002-4	Operations Planning	SC	R1, R2, R4, R5, R6	01/01/2018	12/31/2018	03/20/2019
NB Power	BA, TOP	TOP-010-1(i)	Real-time Reliability Monitoring and Analysis Capabilities	SC	R1, R2, R3, R4	10/01/2018	12/31/2018	03/20/2019
NB Power	PA, TP	TPL-001-4	Transmission System Planning Performance Requirements	SC	R1, R2, R3, R4	01/01/2018	12/31/2018	03/20/2019
NB Power	PA, TP	TPL-007-1	Transmission System Planned Performance for Geomagnetic Disturbance Events	SC	R1	01/01/2018	12/31/2018	03/20/2019
NB Power	TOP	VAR-001-4.1	Voltage and Reactive Control	SC	R1, R2, R5	01/01/2018	12/31/2018	03/20/2019
NB Power	GO, GOP	VAR-002-4	Generator Operation for Maintaining Network Voltage Schedules	SC	R2	01/01/2018	12/31/2018	03/20/2019

Table 6 – Saint John Energy 2018 Compliance Reporting Schedule

Registered Entity	Function	Standard	Title	Type	Req's	Start of Reporting Period	End of Reporting Period	Due Date
Saint John Energy	DP	CIP-002-5.1a	Cyber Security — BES Cyber System Categorization	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Saint John Energy	DP	CIP-003-6	Cyber Security — Security Management Controls	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
Saint John Energy	DP	CIP-005-5	Cyber Security — Electronic Security Perimeter(s)	SC	R1, R2	01/01/2018	12/31/2018	03/20/2019
Saint John Energy	DP	CIP-006-6	Cyber Security — Physical Security of BES Cyber Systems	SC	R1, R2, R3	01/01/2018	12/31/2018	03/20/2019
Saint John Energy	DP	CIP-007-6	Cyber Security — System Security Management	SC	R1, R2, R3, R4, R5	01/01/2018	12/31/2018	03/20/2019
Saint John Energy	DP	COM-002-4	Operating Personnel Communications Protocols	SC	R1, R2, R3, R4, R5, R7	01/01/2018	12/31/2018	03/20/2019
Saint John Energy	DP	PRC-005-6	Protection System, Automatic Reclosing, and Sudden Pressure Relaying Maintenance	SC	R1, R3, R4, R5	01/01/2018	12/31/2018	03/20/2019
Saint John Energy	DP	PRC-006-NPCC-1	Automatic Underfrequency Load Shedding	SC	R4, R7, R13	01/01/2018	12/31/2018	03/20/2019

Glossary

Acronym	Definition
SC	Self-Certification
PD	Periodic Data Submittal
BA	Balancing Authority
DP	Distribution Provider
GO	Generator Owner
GOP	Generator Operator
IA	Interchange Authority
LSE	Load Serving Entity
PA	Planning Authority
PSE	Purchasing-Selling Entity
RC	Reliability Coordinator
RP	Resource Planner
RSG	Reserve Sharing Group
TO	Transmission Owner
TOP	Transmission Operator
TP	Transmission Planner
TSP	Transmission Service Provider