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May 6, 2021

Mr. Patrick Wruck
Commission Secretary and Manager
Regulatory Support
British Columbia Utilities Commission
Suite 410, 900 Howe Street
Vancouver, BC V6Z 2N3

Dear Mr. Wruck:

**RE: British Columbia Utilities Commission (BCUC or Commission)
British Columbia Hydro and Power Authority (BC Hydro)
Mandatory Reliability Standards (MRS)
Assessment Report No. 14 (Report) – Errata No. 1**

BC Hydro writes to amend the Report filed on April 30, 2021. The attached erratum to the Report includes an update to Appendix C-3.

For further information, please contact Lynne Foster at 604-623-3918 or by email at bchydroregulatorygroup@bchydro.com.

Yours sincerely,



Chris Sandve
Chief Regulatory Officer

al/rh

Enclosure

Copy to: B.C. MRS Program Registered Entities

Mandatory Reliability Standards Assessment Report No. 14

ERRATUM – May 6, 2021

From the MRS Assessment Report No. 14 dated April 30, 2021:

REMOVE	INSERT	NOTE
Appendix C-23 - Page 57	Appendix C-3, Revision No. 1 - Page 57 – May 5, 2021	1

Notes:

1. Extracts of FortisBC Inc.'s MOD-31-3 and PRC-024-3 PC Assessment Report consultation feedback that were inadvertently omitted in the original filing and are now added for completeness.

Disclaimer: This information has been prepared as input into BC Hydro's thirteenth assessment report on Mandatory Reliability Standards and is based on information available to BC Hydro as of the date set. It should not be relied upon for any other purpose.														
FERC Approved New/Revised Standard/Requirement	RSAR Link	Standard Name and Description	Current BODC Standard	Current BODC Equivalent or Superseded	FERC Approved Revision or the Superseded	FERC Approved Revision Reporting Document	Functional Applicability of FERC Approved Standard/Requirements	FERC Order No., Order Date and Order Publication Date	Effective Date of FERC Standard	FERC Approved Implementation Time Provided or Estimated	Stakeholder Comments, Organizational Activities and Reliability/Sustainability Impact	Estimated Incremental/New Costs Associated with Revision/New Standard/Requirement, in \$	BCUC Implementation Time (Please do not insert a carriage return in a cell)	
(Hyperlinks to the Standard)	(Hyperlinks to the respective RSARs)				(Hyperlinks to the respective documents if available)		(Hyperlinks to the referenced FERC Orders)	(Hyperlinks to the FERC Approval Rulings)	(Hyperlinks to the respective implementation plans and processes, where applicable)		One Time (\$)	Ongoing (\$)	Cost Comments	
FAC-002-3.R1	RSAR NA	Facility Interconnection Studies To study the impact of interconnecting new or materially modified Facilities on the Bulk Electric System.	FAC-002-3 FAC-002-3 is being assessed in Assessment 14	FAC-002-3 Adopted 2015 Assessment Report 8 R-38-15	3- No changes to the requirement from previous version.	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	30-Oct-2020 FAC-002-3 Implementation Plan Implementation Time: Effective on the first day of the first calendar quarter that is three (3) months after the effective date of the applicable governmental authority's order approving the standard. US Enforcement Date 01-Apr-2021	(Please do not insert a carriage return in a cell) Analysis with BC Hydro registered as the PC for the entire province is shown in green. Analysis with FERC registered as the PC for the FortBEC Bulk Electric System (BES) footprint is shown in red. Analysis that is not dependent on BC Hydro or FortBEC PC registration is shown in black. Coordination with BC Hydro as the PC would be required for new generation, transmission, or load facilities connected to the Bulk Electric System. The data submitted and study coordination is applicable to TP, TO, OS, and DP registered entities. BC Hydro has not provided a process or requirement for FortBEC coordination on new facilities. All requirements are applicable to both TP and PC. However, FortBEC is already required to be compliant with this standard as a TP. Minimal changes are required to current documentation and processes if FortBEC registers as the PC for the province.	Unknown	Unknown	FortBEC cannot estimate any costs without knowing the BC Hydro data submitted and study requirements.	Recommended effective date is 24 months after BODC approval.
FAC-002-3.R2	RSAR NA	Facility Interconnection Studies To study the impact of interconnecting new or materially modified Facilities on the Bulk Electric System.	FAC-002-3 FAC-002-3 is being assessed in Assessment 14	FAC-002-3 Adopted 2015 Assessment Report 8 R-38-15	3- No changes to the requirement from previous version.	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	30-Oct-2020 FAC-002-3 Implementation Plan Implementation Time: Effective on the first day of the first calendar quarter that is three (3) months after the effective date of the applicable governmental authority's order approving the standard. US Enforcement Date 01-Apr-2021	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1
FAC-002-3.R3	RSAR NA	Facility Interconnection Studies To study the impact of interconnecting new or materially modified Facilities on the Bulk Electric System.	FAC-002-3 FAC-002-3 is being assessed in Assessment 14	FAC-002-3 Adopted 2015 Assessment Report 8 R-38-15	3- Renew Application Load Sensing Entry	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	30-Oct-2020 FAC-002-3 Implementation Plan Implementation Time: Effective on the first day of the first calendar quarter that is three (3) months after the effective date of the applicable governmental authority's order approving the standard. US Enforcement Date 01-Apr-2021	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1
FAC-002-3.R4	RSAR NA	Facility Interconnection Studies To study the impact of interconnecting new or materially modified Facilities on the Bulk Electric System.	FAC-002-3 FAC-002-3 is being assessed in Assessment 14	FAC-002-3 Adopted 2015 Assessment Report 8 R-38-15	3- No changes to the requirement from previous version.	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	30-Oct-2020 FAC-002-3 Implementation Plan Implementation Time: Effective on the first day of the first calendar quarter that is three (3) months after the effective date of the applicable governmental authority's order approving the standard. US Enforcement Date 01-Apr-2021	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1
FAC-002-3.R5	RSAR NA	Facility Interconnection Studies To study the impact of interconnecting new or materially modified Facilities on the Bulk Electric System.	FAC-002-3 FAC-002-3 is being assessed in Assessment 14	FAC-002-3 Adopted 2015 Assessment Report 8 R-38-15	3- No changes to the requirement from previous version.	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	30-Oct-2020 FAC-002-3 Implementation Plan Implementation Time: Effective on the first day of the first calendar quarter that is three (3) months after the effective date of the applicable governmental authority's order approving the standard. US Enforcement Date 01-Apr-2021	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1	See FAC-002-3 R1
MOD-031-3.R1	RSAR NE on NBFC	Demand and Energy Data To provide authority for applicable entities to collect Demand energy and related data to support reliability studies and assessments and to enumerate the responsibilities and obligations of requestors and respondents of that data.	MOD-031-3 MOD-031-3 is being assessed in Assessment 14	MOD-031-3 Adopted 2017 Assessment Report 10 R-36-17	3- Renew application Load Sensing Entry	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	30-Oct-2020 MOD-031-3 Implementation Plan Implementation Time: Standard shall become effective on the first day of the first calendar quarter that is three (3) months after the effective date. US Enforcement Date 01-Apr-2021	FortBEC currently provides demand and energy data required by this standard to BC Hydro as a Balancing Authority under the annual WECC Loads and Resources Data Request. BC Hydro has indicated there will be no additional data requests required to be completed by FortBEC if BC Hydro registers as the PC for the province. If FortBEC registers as a PC, FortBEC does not expect to identify a need for the collection of Total Internal Demand, Net Energy for Load, and Demand Side Management data since FortBEC would not have other TP or DP registered entities in its BES footprint. This means this standard would not be applicable to FortBEC and no changes are required to current documentation and processes.	No additional costs	No additional costs	NA	Recommended effective date immediately after BODC approval.
MOD-031-3.R2	RSAR NE on NBFC	Demand and Energy Data To provide authority for applicable entities to collect Demand energy and related data to support reliability studies and assessments and to enumerate the responsibilities and obligations of requestors and respondents of that data.	MOD-031-3 MOD-031-3 is being assessed in Assessment 14	MOD-031-3 Adopted 2017 Assessment Report 10 R-36-17	3- No changes to the requirement from previous version.	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	30-Oct-2020 MOD-031-3 Implementation Plan Implementation Time: Standard shall become effective on the first day of the first calendar quarter that is three (3) months after the effective date. US Enforcement Date 01-Apr-2021	See MOD-031-3 R1	See MOD-031-3 R1	See MOD-031-3 R1	See MOD-031-3 R1	See MOD-031-3 R1
MOD-031-3.R3	RSAR NE on NBFC	Demand and Energy Data To provide authority for applicable entities to collect Demand energy and related data to support reliability studies and assessments and to enumerate the responsibilities and obligations of requestors and respondents of that data.	MOD-031-3 MOD-031-3 is being assessed in Assessment 14	MOD-031-3 Adopted 2017 Assessment Report 10 R-36-17	3- No changes to the requirement from previous version.	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	30-Oct-2020 MOD-031-3 Implementation Plan Implementation Time: Standard shall become effective on the first day of the first calendar quarter that is three (3) months after the effective date. US Enforcement Date 01-Apr-2021	See MOD-031-3 R1	See MOD-031-3 R1	See MOD-031-3 R1	See MOD-031-3 R1	See MOD-031-3 R1
MOD-031-3.R4	RSAR NE on NBFC	Demand and Energy Data To provide authority for applicable entities to collect Demand energy and related data to support reliability studies and assessments and to enumerate the responsibilities and obligations of requestors and respondents of that data.	MOD-031-3 MOD-031-3 is being assessed in Assessment 14	MOD-031-3 Adopted 2017 Assessment Report 10 R-36-17	3- No changes to the requirement from previous version.	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	30-Oct-2020 MOD-031-3 Implementation Plan Implementation Time: Standard shall become effective on the first day of the first calendar quarter that is three (3) months after the effective date. US Enforcement Date 01-Apr-2021	See MOD-031-3 R1	See MOD-031-3 R1	See MOD-031-3 R1	See MOD-031-3 R1	See MOD-031-3 R1
PRC-024-3.R1	RSAR NA	Title: Frequency and Voltage Protection Settings for Generating Resources To set protection such that generating resource(s) remain connected during defined frequency and voltage excursions in support of the Bulk Electric System (BES).	PRC-024-3 PRC-024-3 is being assessed in Assessment 14	PRC-024-3 Adopted 2016 Assessment Report 9 R-32-16	3- Each Generator Owner shall ensure each new regulatory or equipment protection that implements applicable protection with frequency or voltage protection that meeting the protection setting criteria in Requirements R1 or R2, including (but not limited to) study results, experience from an actual event, or manufacturer's advice. 3.1 The Generator Owner shall ensure the documented regulatory or equipment protection, to be Planning Coordinator and Transmission Planner within 30 calendar days of any of the following: - Identification of a regulatory or equipment limitation. - Repair of the equipment causing the limitation that removes the limitation.	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	Comments on the collection of information submitted September 29, 2020. PRC-024-3 Implementation Plan Implementation Time: Where approved by an applicable governmental authority in support of the standard shall become effective on the first day of the first calendar quarter that is twenty-four (24) months after the effective date of the applicable governmental authority's order approving the standard, or otherwise provided for by the applicable governmental authority. US Enforcement Date of Standard 01-Oct-2022	These requirements are applicable to GD entities with data submittals required by the TP and PC. However, BC Hydro and FortBEC are already required to be compliant with this standard as TP. Minimal changes are expected to current documentation and processes if BC Hydro or FortBEC register as a PC.	No additional costs	No additional costs	NA	Recommended effective date immediately after BODC approval.
PRC-024-3.R2	RSAR NA	Title: Frequency and Voltage Protection Settings for Generating Resources To set protection such that generating resource(s) remain connected during defined frequency and voltage excursions in support of the Bulk Electric System (BES).	PRC-024-3 PRC-024-3 is being assessed in Assessment 14	PRC-024-3 Adopted 2016 Assessment Report 9 R-32-16	3- Each Generator Owner shall provide applicable protection Requirements R1 and R2 to the Planning Coordinator and Transmission Planner that meets the associated protection setting criteria in Requirements R1 or R2, including (but not limited to) study results, experience from an actual event, or manufacturer's advice. 3.1 The Generator Owner shall ensure the documented regulatory or equipment protection, to be Planning Coordinator and Transmission Planner within 30 calendar days of any of the following: - Identification of a regulatory or equipment limitation. - Repair of the equipment causing the limitation that removes the limitation.	NA	PA/PC	Docket No. B20094-000 Issued Oct 30, 2009	Comments on the collection of information submitted September 29, 2020. PRC-024-3 Implementation Plan Implementation Time: Where approved by an applicable governmental authority in support of the standard shall become effective on the first day of the first calendar quarter that is twenty-four (24) months after the effective date of the applicable governmental authority's order approving the standard, or otherwise provided for by the applicable governmental authority. US Enforcement Date of Standard 01-Oct-2022	See PRC-024-3 R1	See PRC-024-3 R1	See PRC-024-3 R1	See PRC-024-3 R1	See PRC-024-3 R1