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THE MANITOBA HYDRO ACT  
(C.C.S.M. c. H190)

**Reliability Standards Regulation, amendment**

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Regulation 26/2016  
Registered February 1, 2016

**Manitoba Regulation 25/2012 amended**

**1** The *Reliability Standards Regulation, Manitoba Regulation 25/2012*, is amended by this regulation.

**2** Schedule 1 is replaced with Schedule 1 to this regulation.

**Coming into force**

**3** This regulation comes into force on July 1, 2016.

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LOI SUR L'HYDRO-MANITOBA  
(c. H190 de la C.P.L.M.)

**Règlement modifiant le Règlement sur les normes de fiabilité**

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Règlement 26/2016  
Date d'enregistrement : le 1<sup>er</sup> février 2016

**Modification du R.M. 25/2012**

**1** Le présent règlement modifie le *Règlement sur les normes de fiabilité, R.M. 25/2012*.

**2** L'annexe 1 est remplacée par l'annexe 1 du présent règlement.

**Entrée en vigueur**

**3** Le présent règlement entre en vigueur le 1<sup>er</sup> juillet 2016.

SCHEDULE 1  
(Section 2)

RELIABILITY STANDARDS

<b>Standard Number</b>	<b>Standard Name</b>	<b>Effective Date</b>
BAL-001-1	Real Power Balancing Control Performance	July 1, 2016
BAL-002-1	Disturbance Control Performance	February 14, 2014
BAL-003-0.1b	Frequency Response and Frequency Bias	February 14, 2014
BAL-004-0	Time Error Correction	April 1, 2012
BAL-005-0.2b (Excl. R2)	Automatic Generation Control	July 1, 2016
BAL-006-2	Inadvertent Interchange	February 14, 2014
COM-001-1.1	Telecommunications	July 1, 2016
COM-002-2	Communications and Coordination	April 1, 2012
CIP-002-3	Cyber Security – Critical Cyber Asset Identification	April 1, 2012
CIP-003-3 (Excl. R1.2, R3, R3.1, R3.3, R4.2)	Cyber Security – Security Management Controls	July 1, 2016
CIP-004-3a	Cyber Security – Personnel & Training	February 14, 2014
CIP-005-3a (Excl. R2.6)	Cyber Security – Electronic Security Perimeter(s)	July 1, 2016
CIP-006-3c	Cyber Security – Physical Security of Critical Cyber Assets	February 14, 2014
CIP-007-3a (Excl. R7.3)	Cyber Security – Systems Security Management	July 1, 2016
CIP-008-3	Cyber Security – Incident Reporting and Response Planning	April 1, 2012
CIP-009-3	Cyber Security – Recovery Plans for Critical Cyber Assets	April 1, 2012
EOP-001-2.1b	Emergency Operations Planning	July 1, 2016
EOP-002-3.1	Capacity and Energy Emergencies	February 14, 2014
EOP-003-2	Load Shedding Plans	July 1, 2016
EOP-004-2	Event Reporting	July 1, 2016
EOP-005-2 (Excl. R3.1)	System Restoration from Blackstart Resources	July 1, 2016
EOP-006-2	System Restoration Coordination	July 1, 2016
EOP-008-1	Loss of Control Center Functionality	July 1, 2016
EOP-010-1	Geomagnetic Disturbance Operations	July 1, 2016
FAC-001-1	Facility Connection Requirements	July 1, 2016
FAC-002-1 (Excl. R2)	Coordination of Plans For New Generation, Transmission, and End-User Facilities	July 1, 2016
FAC-003-3	Transmission Vegetation Management	July 1, 2016

<b>Standard Number</b>	<b>Standard Name</b>	<b>Effective Date</b>
FAC-008-3 (Excl. R4, R5)	Facility Ratings	July 1, 2016
FAC-010-2.1 (Excl. R5)	System Operating Limits Methodology for the Planning Horizon	July 1, 2016
FAC-011-2 (Excl. R5)	System Operating Limits Methodology for the Operations Horizon	July 1, 2016
FAC-013-2 (Excl. R3)	Assessment of Transfer Capability for the Near-Term Transmission Planning Horizon	July 1, 2016
FAC-014-2	Establish and Communicate System Operating Limits	April 1, 2012
INT-004-3.1	Dynamic Transfers	July 1, 2016
INT-006-4	Evaluation of Interchange Transactions	July 1, 2016
INT-009-2.1	Implementation of Interchange	July 1, 2016
INT-010-2.1	Interchange Initiation and Modification for Reliability	July 1, 2016
INT-011-1.1	Intra-Balancing Authority Transaction Identification	July 1, 2016
IRO-001-1.1	Reliability Coordination – Responsibilities and Authorities	February 14, 2014
IRO-002-2	Reliability Coordination – Facilities	February 14, 2014
IRO-003-2	Reliability Coordination – Wide-Area View	April 1, 2012
IRO-004-2	Reliability Coordination – Operations Planning	April 1, 2012
IRO-005-3.1a	Reliability Coordination – Current Day Operations	February 14, 2014
IRO-006-5	Reliability Coordination – Transmission Loading Relief (TLR)	April 1, 2012
IRO-006-EAST-1	Transmission Loading Relief Procedure for the Eastern Interconnection	April 1, 2012
IRO-008-1	Reliability Coordinator Operational Analyses and Real-time Assessments	February 14, 2014
IRO-009-1	Reliability Coordinator Actions to Operate Within IROs	February 14, 2014
IRO-010-1a	Reliability Coordinator Data Specification and Collection	February 14, 2014
IRO-014-1	Procedures, Processes, or Plans to Support Coordination Between Reliability Coordinators	April 1, 2012
IRO-015-1	Notifications and Information Exchange Between Reliability Coordinators	April 1, 2012
IRO-016-1 (Excl. R2)	Coordination of Real-time Activities Between Reliability Coordinators	July 1, 2016
MOD-001-2	Available Transmission System Capability	July 1, 2016
MOD-016-1.1	Documentation of Data Reporting Requirements for Actual and Forecast Demands, Net Energy for Load, and Controllable Demand-Side Management	February 14, 2014
MOD-017-0.1	Aggregated Actual and Forecast Demands and Net Energy for Load	February 14, 2014
MOD-018-0	Treatment of Non-member Demand Data and How Uncertainties are Addressed in the Forecasts of Demand and Net Energy for Load	April 1, 2012

<b>Standard Number</b>	<b>Standard Name</b>	<b>Effective Date</b>
MOD-019-0.1	Reporting of Interruptible Demands and Direct Control Load Management	February 14, 2014
MOD-020-0	Providing Interruptible Demands and Direct Control Load Management Data to System Operators and Reliability Coordinators	April 1, 2012
MOD-021-1	Documentation of the Accounting Methodology for the Effects of Demand-Side Management in Demand and Energy Forecasts	February 14, 2014
MOD-032-1	Data for Power System Modeling and Analysis	July 1, 2016
PER-001-0.2	Operating Personnel Responsibility and Authority	February 14, 2014
PER-003-1	Operating Personnel Credentials	February 14, 2014
PER-004-2	Reliability Coordination - Staffing	February 14, 2014
PER-005-1	System Personnel Training	February 14, 2014
PRC-001-1.1(ii)	System Protection Coordination	July 1, 2016
PRC-004-2.1(i)a	Analysis and Mitigation of Transmission and Generation Protection System Misoperations	July 1, 2016
PRC-005-1.1b	Transmission and Generation Protection System Maintenance and Testing	July 1, 2016
PRC-006-1	Automatic Underfrequency Load Shedding	July 1, 2016
PRC-008-0	Implementation and Documentation of Underfrequency Load Shedding Equipment Maintenance Program	April 1, 2012
PRC-010-0 (Excl. 2)	Technical Assessment of the Design and Effectiveness of Undervoltage Load Shedding Program	July 1, 2016
PRC-011-0	Undervoltage Load Shedding System Maintenance and Testing	April 1, 2012
PRC-015-0	Special Protection System Data and Documentation	April 1, 2012
PRC-016-0.1	Special Protection System Misoperations	February 14, 2014
PRC-017-0	Special Protection System Maintenance and Testing	April 1, 2012
PRC-018-1	Disturbance Monitoring Equipment Installation and Data Reporting	April 1, 2012
PRC-021-1	Under-Voltage Load Shedding Program Data	April 1, 2012
PRC-022-1 (Excl. R2)	Under-Voltage Load Shedding Program Performance	July 1, 2016
PRC-023-1	Transmission Relay Loadability	April 1, 2012
TOP-001-1a	Reliability Responsibilities and Authorities	February 14, 2014
TOP-002-2.1b	Normal Operations Planning	February 14, 2014
TOP-003-1	Planned Outage Coordination	February 14, 2014
TOP-004-2	Transmission Operations	April 1, 2012
TOP-005-2a	Operational Reliability Information	February 14, 2014
TOP-006-2	Monitoring System Conditions	February 14, 2014
TOP-007-0	Reporting System Operating Limit (SOL) and Interconnection Reliability Operating Limit (IROL) Violations	April 1, 2012

<b>Standard Number</b>	<b>Standard Name</b>	<b>Effective Date</b>
TOP-008-1	Response to Transmission Limit Violations	April 1, 2012
TPL-001-0.1	System Performance Under Normal (No Contingency) Conditions (Category A)	February 14, 2014
TPL-002-0b	System Performance Following Loss of a Single Bulk Electric System Element (Category B)	February 14, 2014
TPL-003-0b	System Performance Following Loss of Two or More Bulk Electric System Elements (Category C)	July 1, 2016
TPL-004-0a	System Performance Following Extreme Events Resulting in the Loss of Two or More Bulk Electric System Elements (Category D)	July 1, 2016
VAR-001-4	Voltage and Reactive Control	July 1, 2016
VAR-002-4	Generator Operation for Maintaining Network Voltage Schedules	July 1, 2016

ANNEXE 1  
(article 2)

NORME DE FIABILITÉ

<b>Numéro de la norme</b>	<b>Titre de la norme</b>	<b>Date d'entrée en vigueur</b>
BAL-001-1	Real Power Balancing Control Performance	1 <sup>er</sup> juillet 2016
BAL-002-1	Disturbance Control Performance	14 février 2014
BAL-003-0.1b	Frequency Response and Frequency Bias	14 février 2014
BAL-004-0	Time Error Correction	1 <sup>er</sup> avril 2012
BAL-005-0.2b (sauf R2)	Automatic Generation Control	1 <sup>er</sup> juillet 2016
BAL-006-2	Inadvertent Interchange	1 <sup>er</sup> février 2014
COM-001-1.1	Telecommunications	1 <sup>er</sup> juillet 2016
COM-002-2	Communications and Coordination	1 <sup>er</sup> avril 2012
CIP-002-3	Cyber Security – Critical Cyber Asset Identification	1 <sup>er</sup> avril 2012
CIP-003-3 (sauf R1.2, R3, R3.1, R3.3, R4.2)	Cyber Security – Security Management Controls	1 <sup>er</sup> juillet 2016
CIP-004-3a	Cyber Security – Personnel & Training	14 février 2014
CIP-005-3a (sauf R2.6)	Cyber Security – Electronic Security Perimeter(s)	1 <sup>er</sup> juillet 2016
CIP-006-3c	Cyber Security – Physical Security of Critical Cyber Assets	14 février 2014
CIP-007-3a (sauf R7.3)	Cyber Security – Systems Security Management	1 <sup>er</sup> juillet 2016
CIP-008-3	Cyber Security – Incident Reporting and Response Planning	1 <sup>er</sup> avril 2012
CIP-009-3	Cyber Security – Recovery Plans for Critical Cyber Assets	1 <sup>er</sup> avril 2012
EOP-001-2.1b	Emergency Operations Planning	1 <sup>er</sup> juillet 2016
EOP-002-3.1	Capacity and Energy Emergencies	14 février 2014
EOP-003-2	Load Shedding Plans	1 <sup>er</sup> juillet 2016
EOP-004-2	Event Reporting	1 <sup>er</sup> juillet 2016
EOP-005-2 (sauf R3.1)	System Restoration from Blackstart Resources	1 <sup>er</sup> juillet 2016
EOP-006-2	System Restoration Coordination	1 <sup>er</sup> juillet 2016
EOP-008-1	Loss of Control Center Functionality	1 <sup>er</sup> juillet 2016
EOP-010-1	Geomagnetic Disturbance Operations	1 <sup>er</sup> juillet 2016
FAC-001-1	Facility Connection Requirements	1 <sup>er</sup> juillet 2016
FAC-002-1 (sauf R2)	Coordination of Plans For New Generation, Transmission, and End-User Facilities	1 <sup>er</sup> juillet 2016

<b>Numéro de la norme</b>	<b>Titre de la norme</b>	<b>Date d'entrée en vigueur</b>
FAC-003-3	Transmission Vegetation Management	1 <sup>er</sup> juillet 2016
FAC-008-3 (sauf R4, R5)	Facility Ratings	1 <sup>er</sup> juillet 2016
FAC-010-2.1 (sauf R5)	System Operating Limits Methodology for the Planning Horizon	1 <sup>er</sup> juillet 2016
FAC-011-2 (sauf R5)	System Operating Limits Methodology for the Operations Horizon	1 <sup>er</sup> juillet 2016
FAC-013-2 (sauf R3)	Assessment of Transfer Capability for the Near-Term Transmission Planning Horizon	1 <sup>er</sup> juillet 2016
FAC-014-2	Establish and Communicate System Operating Limits	1 <sup>er</sup> avril 2012
INT-004-3.1	Dynamic Transfers	1 <sup>er</sup> juillet 2016
INT-006-4	Evaluation of Interchange Transactions	1 <sup>er</sup> juillet 2016
INT-009-2.1	Implementation of Interchange	1 <sup>er</sup> juillet 2016
INT-010-2.1	Interchange Initiation and Modification for Reliability	1 <sup>er</sup> juillet 2016
INT-011-1.1	Intra-Balancing Authority Transaction Identification	1 <sup>er</sup> juillet 2016
IRO-001-1.1	Reliability Coordination – Responsibilities and Authorities	14 février 2014
IRO-002-2	Reliability Coordination – Facilities	14 février 2014
IRO-003-2	Reliability Coordination – Wide-Area View	1 <sup>er</sup> avril 2012
IRO-004-2	Reliability Coordination – Operations Planning	1 <sup>er</sup> avril 2012
IRO-005-3.1a	Reliability Coordination – Current Day Operations	14 février 2014
IRO-006-5	Reliability Coordination – Transmission Loading Relief (TLR)	1 <sup>er</sup> avril 2012
IRO-006-EAST-1	Transmission Loading Relief Procedure for the Eastern Interconnection	1 <sup>er</sup> avril 2012
IRO-008-1	Reliability Coordinator Operational Analyses and Real-time Assessments	14 février 2014
IRO-009-1	Reliability Coordinator Actions to Operate Within IROs	14 février 2014
IRO-010-1a	Reliability Coordinator Data Specification and Collection	14 février 2014
IRO-014-1	Procedures, Processes, or Plans to Support Coordination Between Reliability Coordinators	1 <sup>er</sup> avril 2012
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MOD-016-1.1	Documentation of Data Reporting Requirements for Actual and Forecast Demands, Net Energy for Load, and Controllable Demand-Side Management	14 février 2014
MOD-017-0.1	Aggregated Actual and Forecast Demands and Net Energy for Load	14 février 2014
MOD-018-0	Treatment of Non-member Demand Data and How Uncertainties are Addressed in the Forecasts of Demand and Net Energy for Load	1 <sup>er</sup> avril 2012

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MOD-021-1	Documentation of the Accounting Methodology for the Effects of Demand-Side Management in Demand and Energy Forecasts	14 février 2014
MOD-032-1	Data for Power System Modeling and Analysis	1 <sup>er</sup> juillet 2016
PER-001-0.2	Operating Personnel Responsibility and Authority	14 février 2014
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PER-004-2	Reliability Coordination - Staffing	14 février 2014
PER-005-1	System Personnel Training	14 février 2014
PRC-001-1.1(ii)	System Protection Coordination	1 <sup>er</sup> juillet 2016
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PRC-005-1.1b	Transmission and Generation Protection System Maintenance and Testing	1 <sup>er</sup> juillet 2016
PRC-006-1	Automatic Underfrequency Load Shedding	1 <sup>er</sup> juillet 2016
PRC-008-0	Implementation and Documentation of Underfrequency Load Shedding Equipment Maintenance Program	1 <sup>er</sup> avril 2012
PRC-010-0 (sauf 2)	Technical Assessment of the Design and Effectiveness of Undervoltage Load Shedding Program	1 <sup>er</sup> juillet 2016
PRC-011-0	Undervoltage Load Shedding System Maintenance and Testing	1 <sup>er</sup> avril 2012
PRC-015-0	Special Protection System Data and Documentation	1 <sup>er</sup> avril 2012
PRC-016-0.1	Special Protection System Misoperations	14 février 2014
PRC-017-0	Special Protection System Maintenance and Testing	1 <sup>er</sup> avril 2012
PRC-018-1	Disturbance Monitoring Equipment Installation and Data Reporting	1 <sup>er</sup> avril 2012
PRC-021-1	Under-Voltage Load Shedding Program Data	1 <sup>er</sup> avril 2012
PRC-022-1 (sauf R2)	Under-Voltage Load Shedding Program Performance	1 <sup>er</sup> juillet 2016
PRC-023-1	Transmission Relay Loadability	1 <sup>er</sup> avril 2012
TOP-001-1a	Reliability Responsibilities and Authorities	14 février 2014
TOP-002-2.1b	Normal Operations Planning	14 février 2014
TOP-003-1	Planned Outage Coordination	14 février 2014
TOP-004-2	Transmission Operations	1 <sup>er</sup> avril 2012
TOP-005-2a	Operational Reliability Information	14 février 2014
TOP-006-2	Monitoring System Conditions	14 février 2014



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TOP-007-0	Reporting System Operating Limit (SOL) and Interconnection Reliability Operating Limit (IROL) Violations	1 <sup>er</sup> avril 2012
TOP-008-1	Response to Transmission Limit Violations	1 <sup>er</sup> avril 2012
TPL-001-0.1	System Performance Under Normal (No Contingency) Conditions (Category A)	14 février 2014
TPL-002-0b	System Performance Following Loss of a Single Bulk Electric System Element (Category B)	14 février 2014
TPL-003-0b	System Performance Following Loss of Two or More Bulk Electric System Elements (Category C)	1 <sup>er</sup> juillet 2016
TPL-004-0a	System Performance Following Extreme Events Resulting in the Loss of Two or More Bulk Electric System Elements (Category D)	1 <sup>er</sup> juillet 2016
VAR-001-4	Voltage and Reactive Control	1 <sup>er</sup> juillet 2016
VAR-002-4	Generator Operation for Maintaining Network Voltage Schedules	1 <sup>er</sup> juillet 2016