



Reliability Coordinator

# Register of Entities Subject to Reliability Standards

Filed ~~September 27, 2021~~ Month xx, 20xx



## 1. PURPOSE OF REGISTER

The Register of Entities Subject to Reliability Standards (the Register) identifies the entities subject to Rreliability Sstandards adopted by the Régie de l'énergie (the Régie).<sup>1</sup>

In accordance with Régie decisions, the Register also identifies the NERC Reliability Functional Model functions these entities perform in order to establish the Rreliability Sstandards to which they are subject. In addition, the Register identifies facilities that these entities own or operate, as well as other characteristics relevant to the application of the Rreliability Sstandards.<sup>2</sup>

## 2. ENTITIES SUBJECT TO RELIABILITY STANDARDS

The applicability of the Rreliability Sstandards and their Québec appendices are based upon the NERC functional model and on the identification of the facilities of the ~~main~~-Main ~~transmission~~-Transmission ~~system~~-System (RTP), per the partial application of the "Methodology for Identifying Main Transmission System Elements" further to decision D-2018-149. The functions are defined in the Glossary of Terms and Acronyms used in Reliability Standards adopted by the Régie. The following list gives the functions relevant to the Rreliability Sstandards and Québec appendices adopted by the Régie and additional details regarding their scope in Québec:

- **Reliability Coordinator (RC):** The entity responsible for maintaining system reliability in real time within its area (i.e., the Québec Interconnection). The Reliability Coordinator for Québec is designated by the Régie de l'énergie in accordance with section 85.5 of the Act.
- **Balancing Authority (BA):** The entity responsible for maintaining generation/load balance, and thus ensuring frequency stability, within the entire Québec Interconnection. In Québec, the BA area matches the RC and TOP areas; the three functions are performed by a single entity.
- **Transmission Operator (TOP):** The entity responsible for the reliable operation of the transmission facilities within its area. In Québec, the TOP area matches the RC and BA areas; the three functions are performed by a single entity.
- **Transmission Owner (TO):** In Québec, the owner of an RTP transmission facility.
- **Generator Operator (GOP):** In Québec, the operator of an RTP generating facility.

<sup>1</sup> Act respecting the Régie de l'énergie (R.S.Q., c R-6.01), section 85.13. (1) "The reliability coordinator must submit to the Régie, for approval, a register identifying the entities that are subject to the reliability standards adopted by the Régie; ..."

<sup>2</sup> Decision D-2011-068, p. 43, par. 175.



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- **Generator Owner (GO):** In Québec, the owner of an RTP generating **facility**.
- **Planning Authority (PA) or Planning Coordinator (PC):** The entity responsible for **transmission system** planning for the entire Québec Interconnection.
- **Transmission Planner (TP):** In Québec, the PA and TP functions are performed by the same entity; the TP area is the same as the PA area and the responsibilities for the two functions are basically the same.
- **Transmission Service Provider (TSP):** Entity that provides an OATT-type **transmission** service.
- **Resource Planner (RP):** The entity responsible for developing a long-term supply plan designed to meet the total power **demand** of the Québec Interconnection.
- **Load-Serving Entity (LSE):** In Québec, only one entity performs LSE functions.
- **Distribution Provider (DP):** A distributor with a peak capacity of over 75 MW, whose **facilities** are connected to an electric power **transmission system**, regardless of its nature (i.e., main or regional transmission system).

In addition, for applicability purposes, the Register identifies the following characteristics for each entity:

- Owner or operator of an RTP **facility**
- Owner or operator of a Bulk Power System **facility**
- ~~Owner or operator of power **transmission lines** operated at 200 kV or more~~
- Owner or operator of a **facility** or equipment required for **system** restoration
- Owner or operator of a **Special Protection System classified as Type I or Type II by NPCC**
- Owner or operator of ~~under-voltage~~ **Undervoltage load** ~~Load shedding~~ **Shedding programs** ~~Programs~~
- Owner or operator of under-frequency load shedding programs
- Owner of generation facilities for industrial use

The **entities** subject to **R**eliability **S**tandards in Québec are identified in Appendix A. Appendix A also specifies the functions and other characteristics useful for specifying the scope and application of the **R**eliability **S**tandards to **entities**. The other appendices identify **facilities** and other characteristics necessary for the application of the **R**eliability **S**tandards in effect in Québec.



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### 3. FACILITIES SUBJECT TO RELIABILITY STANDARDS – SPECIFICITIES

#### 3.1. GENERATOR SUBSTATION

The ownership of the generator substation associated with an RTP generation facility can differ depending on the owner of the RTP generation facility. The owner of the generator substation, including the step-up transformer, is either:

- Hydro-Québec's Groupe – TransÉnergie et équipement (GTE) hereinafter the "Transmission Provider" for all generator substations associated with the RTP generation facilities of Hydro-Québec's Groupe – Innovation, Production, santé, sécurité et environnement (GIPSSE) (hereinafter the "Generator"), or
- The Generator Owner of all the generator substations associated with RTP generation facilities not owned by Hydro-Québec Production the Generator

The generator substations for Hydro-Québec Production the Generator's RTP generation facilities are identified as distinct transmission facilities belonging to Hydro-Québec TransÉnergie et Équipements the Transmission Provider in Appendix B. Except for Hydro-Québec, no RTP generation facility's substation is included in Appendix C for the application of reliability standards.

## APPENDIX A – ENTITIES

Entity	Acronym	Address	Functions												The entity owns and/or operates						Notes	
			R C	BA	TO P	TO	GO P	G O	PA	T P	TS P	R P	LSE	DP	Facilities classified as RTP	Facilities classified as Bulk <i>Transmission lines operated at 200-kV or above</i>	Facility/equipment required for system restoration	Remedial Action Scheme <sup>3</sup>	<i>Undervoltage load Load shedding program (owns/operates)</i>	<i>Underfrequency load shedding program (DSF) (owns/operates)</i>		
Innergex Cartier Énergie S.E.C. L'Anse-à-Valleau wind farm	AAV	1225 Saint-Charles Ouest, 10e étage, Longueuil, Qc, J4K 0B9					GO P	GO							Y	N	<i>N</i>	N	<i>n</i>	N / N	N / N	
Innergex Inc. Baie-des-Sables wind farm	BDS	1225 Saint-Charles Ouest, 10e étage, Longueuil, Qc, J4K 0B9					GO P	GO							Y	N	<i>N</i>	N	<i>n</i>	N / N	N / N	

<sup>3</sup> In its decision D-2020-118, the Régie **de l'énergie** adopted a new definition of the term "Remedial Action Scheme" (RAS) which removes the distinction between **SPS** classes I, II and III, as defined by NPCC. As of this decision, certain Type III **SPS** as well as Remedial Action Schemes that are not categorized by NPCC are subject to the NERC **R**eliability **S**tandards adopted and enforced by the Régie since they are part of the new definition of the term "Remedial Action Scheme". In particular, standard PRC-012-2, adopted in **d**Decision D-2020-167, stipulates that any TO, GO or DP can own a RAS, and standards PRC-005-6 and PRC-012-2 require owners of these RAS to identify their RAS. It remains, however, the **entity's** responsibility to demonstrate whether or not it owns a RAS. Consequently, the data in this column is presented for information purposes only and is not to be used in determining the applicability of standards or the monitoring of standards. To differentiate this column from the other columns, which are normative, the background color has been altered and the information is in lowercase italics.



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Entity	Acronym	Address	Functions													The entity owns and/or operates						Notes
			R C	BA	TO P	TO	GO P	G O	PA	T P	TS P	R P	LSE	DP	Facilities classified as RTP	Facilities classified as Bulk Transmission lines operated at 200 kV or above	Facility/equipment required for system restoration	Remedial Action Scheme <sup>3</sup>	Undervoltage load Load shedding Program (owns/operates)	Underfrequency load shedding program (DSF) (owns/operates)		
Hydro-Québec, <u>Coordonateur de la fiabilité (the "Coordinator")</u> <sup>4</sup> <u>Contrôle des mouvements d'énergie (a branch of HQT)</u>	HQCMÉ	Complexe Desjardins C.P. 10000, 19 <sup>e</sup> 13 <sup>e</sup> étage, Montréal, QC, H5B 1H7	RC	BA	TOP										Y	Y	Y	y	N / N	N / Y		
Hydro-Québec, <u>Groupe – Distribution, approvisionnement et services partagés (the "Distributor")</u> Distribution	HQD	75, boul. René-Lévesque Ouest, 22 <sup>e</sup> étage, Montréal, QC, H2Z 1A4											RP	LSE	DP	N	N	N	n	N / N	N / N	
Hydro-Québec, <u>Groupe – Innovation, production, santé, sécurité et environnement (GIP SSE) (the "Generator")</u> Production	HQP	75, boul. René-Lévesque Ouest, 10 <sup>e</sup> étage, Montréal, QC, H2Z 1A4					GO	GO							Y	N	N	Y	n	N / N	N / N	
Hydro-Québec, <u>Groupe TransÉnergie et équipements (GTE) (the "Transmission Provider")</u> TransÉnergie et Équipements	HQT	Complexe Desjardins, C.P. 10000, 19 <sup>e</sup> étage, Montréal, QC, H5B 1H7				TO			PA	TP	TSP			DP	Y	Y	Y	y	N / N	Y / Y	Entity owns synchronous condensers	

<sup>4</sup> Per its decision D-2021-064, the Régie designated the Direction Principale – Contrôle des mouvements d'énergie et exploitation du réseau of Hydro-Québec as the Reliability Coordinator in Québec.



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Entity	Acronym	Address	Functions													The entity owns and/or operates					Notes		
			R C	BA	TO P	TO	GO P	G O	PA	T P	TS P	R P	LSE	DP	Facilities classified as RTP	Facilities classified as Bulk Transmission lines operated at 200 kV or above	Facility/equipment required for system restoration	Remedial Action Scheme <sup>3</sup>	Undervoltage load Load shedding Program (owns/operates)	Underfrequency load shedding program (DSF) (owns/operates)			
Parcs éoliens Témiscouata	TEM	36 rue Lajeunesse Kingsey Falls, QC, J0A 1B0					GOP	GO								Y	N	N	N	n	N / N	N / N	
Rio Tinto Alcan	RTA	1954 Rue Davis, C.P. 1800 Jonquière, QC, G7S 4R5				TO	GOP	GO						DP	Y	N	N	N	n	N / N	N / N	Generation facilities for industrial use	
Société de transmission électrique de Cedars Rapids Limitée	CRT	944, rue Principale, Rivière-Baudette, QC, J0P 1R0				TO							TSP		Y	N	N	N	n	N / N	N / N		
Société en Commandite Hydroélectrique Manicouagan	SCHM	3860, boul. Lafleche, C.P. 6056 Baie-Comeau, QC, G5C 0B7				TO	GOP	GO						DP	Y	N	N	N	n	N / N	N / N		
TransCanada Québec Inc.	TCQ	7005, boul. Raoul Duchesne Becancour, QC, TG9H 4X6					GOP	GO							Y	N	N	N	n	N / N	N / N		
Ville de Saguenay (Hydro-Jonquière)	JON	1710, Rue Ste. Famille, C.P. 2000, Saguenay, QC, G7X 7W7												DP	N	N	N	N	n	N / N	N / N		

## APPENDIX B – TRANSMISSION FACILITIES

Entity	Type	Name	RTP Applicable Voltage Levels (kV)	Bulk Applicable Voltage Levels (kV)	Line operated at 200 kV or more?	Specificities
CRT	Line	CD11	120	None	N	Only the portion in Québec is covered
CRT	Line	CD22	120	None	N	Only the portion in Québec is covered
ÉLL	Line	D5A	230	None	Y	Only the portion in Québec is covered
ÉLL	Line	H9A	120	None	N	Only the portion in Québec is covered
ÉLL	Line	MATI	120	None	N	
ÉLL	Substation	Masson Nord	120	None	-	MXC1 capacitor bank is not included in the RTP
ÉLL	Substation	Masson Sud	230-120	None	-	
ÉLP	Substation	Plateau	315	None	-	Registration of this Element to the Register is suspended by decision D-2020-052
HQT	Line	A41T	230	None	Y	Only the portion in Québec is covered.
HQT	Line	A42T	230	None	Y	Only the portion in Québec is covered.
HQT	Line	B31L	230	None	Y	Only the portion in Québec is covered.
HQT	Line	B5D	230	None	Y	Only the portion in Québec is covered.
HQT	Line	D4Z	120	None	N	Only the portion in Québec is covered.
HQT	Line	H4Z	120	None	N	Only the portion in Québec is covered.
HQT	Line	L0440	450 (DC)	450 (DC)	Y	
HQT	Line	L0451	450 (DC)	450 (DC)	Y	Only the portion in Québec is covered.
HQT	Line	L0452	450 (DC)	450 (DC)	Y	Only the portion in Québec is covered.
HQT	Line	L0460	450 (DC)	450 (DC)	Y	Only the portion in Québec is covered.
HQT	Line	L0470	450 (DC)	450 (DC)	Y	
HQT	Line	L1101	120	None	N	
HQT	Line	L1104	120	None	N	
HQT	Line	L1108	120	None	N	



Entity	Type	Name	RTP Applicable Voltage Levels (kV)	Bulk Applicable Voltage Levels (kV)	Line operated at 200 kV or more?	Specificities
HQT	Substation	Lotbinière	450 (DC)	None	-	
HQT	Substation	Madawaska	345 - 315 - 131 (DC)	None	-	
HQT	Substation	Manic-1 (generator substation)	161 - 13.8	None	-	
HQT	Substation	Manic-2 (generator substation of Jean- Lesage generating station)	315 - 13.8	None	-	
HQT	Substation	Manic-3 (generator substation of René- Lévesque generating station)	315 - 13.8	None	-	
HQT	Substation	Manic-5 (generator substation)	315 - 13.8	None	-	
HQT	Substation	Manic-5-PA (generator substation)	315 - 13.8	None	-	
HQT	Substation	Manicouagan	735 - 315 - 16	735 - 315	-	
HQT	Substation	Matapédia	315 - 230	None	-	230/25 kV transformers are not included in the RTP. 230 kV capacitors (XC) and reactors (XL) are included in the RTP.
HQT	Substation	Mauricie	315 - 230	None	-	The 230 kV capacitor (XC) is included in the RTP.
HQT	Substation	Mercier (generator substation)	69 - 13.8	None	-	
HQT	Substation	Micoua	735 - 315	735 - 315	-	
HQT	Substation	Montagnais	735 - 315	735 - 315	-	
HQT	Substation	Montérégie	735 - 120	735 - 120	-	
HQT	Substation	Murailles (generator substation of Romaine-2 generating station)	315 - 18	None	-	
HQT	Substation	Nemiscau	735 - 315 - 22	735 - 315	-	25 kV voltage level that is RTP is associated with the CLC compensators and not the portion that connects the load.
HQT	Substation	Nicolet	735 - 230	735 - 230	-	
HQT	Substation	Nicolet c.c.	450 (DC) - 230	450 (DC) - 230	-	



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Entity	Name	Type	Facility classified as RTP?	Installed Capacity (MVA)	Connected to RTP?	At least one unit can be synchronized with a neighboring system?	Generator substation included?	Specificities
								n certificate #3214-10-17.
HQP	Shawinigan-2	Hydro	Y	243	N	N	N	
HQP	Shawinigan-3	Hydro	Y	228	N	N	N	
HQP	Toulouste	Hydro	Y	584	Y	N	N	
HQP	Trenche	Hydro	Y	336	N	N	N	
LA	Lac-Alfred and La Mitis	Wind	Y	324.6 MW	Y	N	N	
MDS	Massif-du-Sud	Wind	Y	150 MW	N	N	N	
MEU	Rivière-Nouvelle (MU)	Wind	Y	149.3 MW	N	N	N	
MON	Montréal	Wind	Y	101.2 MW	N	N	N	
MOU	Moulin	Wind	Y	135.7 MW	N	N	N	
MSM	Mont Sainte-Marguerite	Wind	Y	147.2 MW	N	N	N	
NLP	Mont-Louis	Wind	Y	100.5 MW	N	N	N	
NLP	St-Ulric/St-Léandre	Wind	Y	127.5 MW	N	N	N	
NRI	Nicolas-Riou	Éolien	Y	224.4 MW	Y	N	N	
RDM	Rivière-du-Moulin	Wind	Y	350 MW	Y	N	N	
ROT	Mont-Rothery	Wind	Y	75.85 MW	N	N	N	
RTA	Chute-à-Caron	Hydro	Y	180	N	N	N	
RTA	Chute-à-la-Savane	Hydro	Y	300	N	N	N	
RTA	Chute-des-Passes	Hydro	Y	950	N	N	N	
RTA	Chute-du-Diable	Hydro	Y	300	N	N	N	
RTA	Isle-Maligne	Hydro	Y	488	N	N	N	
RTA	Shipshaw	Hydro	Y	1,076	N	N	N	
RTA	Shipshaw 13	Hydro	Y	250	N	N	N	
SCHM	McCormick	Hydro	Y	454	O	N	N	
SDB	Seigneurie-de-Beaupré	Wind	Y	363.2 MW	O	N	N	
SRB	St-Robert-Bellarmin and du Granit	Wind	Y	104.6 MW	N	N	N	
TEM	Témiscouata	Wind	Y	73.5 MW	N	N	N	
TCQ	TransCanada Energy (Cogénération de Bécancour)	Thermal (co-génération)	Y	748	N	N	N	Operations suspended, except in winter (maximum 300 hours per winter and a maximum of 2 appeals per day starting June 1, 2016).
VDK	Vents-du-Kempt	Wind	Y	101.05 MW	N	N	N	



## APPENDIX D – APPLICATION OF THE CIP STANDARDS (VERSION 5)

In decision D-2016-119, the Régie de l'énergie established different effective dates for entity compliance with version 5 of the CIP standards based on whether the entities were identified in the Register of entities in effect at the time of the decision as having assets classified as critical for CIP Standards version.

Entities that were identified in the Register of entities in effect at the time of the decision as having assets classified as critical for CIP Standards version 1 were:

- Hydro Québec – Contrôle des mouvements d'énergie (a branch of HQT)
- Hydro Québec Production
- Hydro Québec TransÉnergie

All other registered entities were not identified in the Register of entities in effect at the time of the decision as having assets classified as critical for CIP Standards version 1.



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## APPENDIX E – SPECIAL PROTECTION SYSTEMS<sup>5</sup>

NPCC No.	Nature of the Special Protection System
SPS #41/45	System separation/Generation rejection
SPS #114	Load shedding
SPS #124	Generation rejection
SPS #134	Generation rejection and load shedding
SPS #151	System separation
SPS #160	Load shedding
SPS #226	Generation rejection

<sup>5</sup> The PRC-005-6 and PRC-012-2 standards require owners of a RAS to identify their RAS. The RAS indicated in this appendix are therefore included for informational purposes only and are not intended to specify applicability of the reliability standards.



## VERSION HISTORY

Decision (Date)	Changes
D-2015-098 (June 23, 2015)	Original version.
D-2015-195 (December 4, 2015)	Deleted PSE and IA functions.
D-2015-213 (December 21, 2015)	Modified Grand-Mère generation facility installed power and generating unit specifications.  Added Appendix G – List of facilities for which the Régie suspends the application of the Reliability Standards.
D-2016-109 (July 15, 2016)	Modifications in connection with the appendix of the decision D-2016-109.  Addition of the facility “Siemens Canada Limitée” to Appendix G.
D-2017-031 (March 21, 2017)	Modifications following decision D-2017-031: <ul style="list-style-type: none"><li>• Removal of all information regarding critical assets from each entity's page (Appendix A)</li><li>• Removal of the “Critical Asset” column of Transmission Facilities, Generation Facilities, Telecommunication Facilities and Control Centers (appendices B, C, D and F)</li><li>• Addition of a new appendix to specify installations designated by the Planning Coordinator, Transmission Planner or Reliability Coordinator further to criteria 2.3, 2.6, 2.7 or 2.9 of Attachment 1 of CIP-002-5.1</li></ul>
D-2018-149 (October 23, 2018)	Removal of appendices A, D, F and G.  Moved Section 2.2 “Identification of Entities Subject to Reliability Standards” to Appendix A “Entities”.  Moved Appendix H “List of Facilities designated under certain CIP-002-5.1 criteria” to Appendix F.  Removal of entities in Appendix A.  Removal and modification of substations in Appendix B.  Addition, removal and modification of lines in Appendix B.



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	<p>Removal and modification of generation facilities in Appendix C.</p> <p>Addition of Appendix D.</p> <p>Modifications to Appendix E.</p> <p>Addition of Appendix G to identify the additions stemming from decision D-2018-149.</p> <p>Removal of information not relevant to the application of Reliability Standards in Québec.</p>
D-2019-142 (November 12, 2019)	<p>2019 statutory update (per decision D-2018-149)</p> <p>System as of April 1, 2019 (with the addition of line 7103)</p> <p>Summary of modifications (in French only) (R-4095-2019, <a href="#">B-0005</a>)</p> <p>Redline to previous version (R-4095-2019, <a href="#">B-0024</a>)</p> <p>Temporary suspension of the application of standards to entity Venterre NRG Inc. and to the New Richmond generation facility.</p>
D-2019-150 (November 15, 2019)	<p>Modification of the effective date from January 1, 2020, to July 1, 2020 to certain facilities in <a href="#">Appendix B</a>.</p>
D-2020-052 (May 14, 2020)	<p>Temporary suspension of Énergie éolienne Le Plateau S.E.C. (Le Plateau I Wind) as a TO for its substation Plateau.</p>
D-2020-062 (May 28, 2020)	<p>Temporary suspension of the inclusion to the Register of lines in <a href="#">Appendix B</a>.</p>
D-2020-065 (June 2, 2020)	<p>Suspension from the Register of Venterre NRG Inc. and its generation facility New Richmond without power limitation.</p>
D-2020-088 (July 13, 2020)	<p>Removal from the Register of Venterre NRG Inc. and its generation facility New Richmond.</p>
D-2020-134 (October 16, 2020)	<p>Added footnote to <a href="#">Appendices A and E</a> to remove the distinctions between types of SPS.</p>
D-2020-167 (December 11, 2020)	<p>Modification of the footnote in <a href="#">Appendix A</a> regarding identification of RAS owning entities.</p>



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	Identification of <b>entities</b> that may own a RAS. Removal of the distinctions between types of <b>SPS</b> in <b>A</b> ppendix E.
D-2021-050 (April 21, 2021)	Removal of 56 “partially Bulk” lines in Appendix B following the revision of NPCC criteria A-10.
D-2021-110 (August 27, 2021)	2020 statutory update (per decision D-2018-149) System as of February 1 <sup>st</sup> , 2021 Summary of modifications (in French only) (R-4154-2021, <a href="#">B-0018</a> ) Redline to previous version (R-4154-2021, <a href="#">B-0020</a> )
<a href="#">D-20xx-xxx</a> (Month xx, 20xx)	<a href="#">2021 statutory update (per decision D-2018-149)</a> <a href="#">System as of October 1, 2021</a> <a href="#">Summary of modifications (in French only) (R-4xxx-20xx, B-00xx)</a> <a href="#">Redline to previous version (R-4xxx-20xx, B-00xx)</a>