

2025 05 06

Ms. Agnes Wittmann  
Director, Environmental Approvals Branch  
Manitoba Environment and Climate Change  
[EABDirector@gov.mb.ca](mailto:EABDirector@gov.mb.ca)

Dear Ms. Wittmann:

**RE: POINTE DU BOIS GENERATING STATION  
RENEWAL LICENCE UNDER THE WATER POWER ACT – SUPPORT REPORT AND LICENCE  
DRAWING SUBMISSION**

Manitoba Hydro is submitting the report entitled “Pointe du Bois Generating Station Report in Support of a Request for a Fifth Renewal Licence under The Water Power Act and Regulations”, as supporting documentation in the Pointe du Bois Renewal Licence process. This report provides details regarding compliance with all terms and conditions of the Fourth Renewal Licence, Fourth Short Term Extension Licence and selected Regulations pursuant to The Water Power Act.

Included in the submission is a new licence drawing showing the proposed severance line and lands of the Province required for the continued operation of the Pointe du Bois Generating Station. The drawing is provided to fulfill the requirement of Section 44(g) of the Regulation and has been sealed and signed by a professional engineer. Report and drawing provided are in electronic (Adobe pdf) formats.

Please confirm your receipt of this documentation and advise me on any issues relating to obtaining a Renewal Licence for Pointe du Bois Generating Station. Should you have any inquires on this matter or additional process requirements, please call me at 204-360-3018.

Yours truly,



W.V. Penner, P. Eng.  
Manager  
Waterway Approvals and Monitoring Department

WVP/kmm/00102-07311-0029.docx  
Att.

WATERWAY APPROVALS AND MONITORING DEPARTMENT  
ASSET MANAGEMENT DIVISION  
ASSET PLANNING AND DELIVERY

# POINTE DU BOIS GENERATING STATION

Report in Support of a Request for a

## RENEWAL LICENCE

Under The Water Power Act and Regulations



**IMPORTANT**

THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF MANITOBA HYDRO AND ALL RIGHTS ARE RESERVED. ANY RELEASE, REPRODUCTION OR OTHER USE THEREOF, WITHOUT THE EXPRESS WRITTEN CONSENT OF MANITOBA HYDRO, IS STRICTLY PROHIBITED. AVAILABLE IN ACCESSIBLE FORMATS UPON REQUEST.

**DISTRIBUTION:**

A DEY  
(MANITOBA ENVIRONMENT AND CLIMATE CHANGE)  
CORPORATE LIBRARY  
LAW DEPARTMENT

PREPARED BY:

K.M. MORAND

REVIEWED BY:

B.W. GIESBRECHT

APPROVED BY:

W.V. PENNER

DATE:

2025-04-30

**EG** ENGINEERS  
GEOSCIENTISTS  
MANITOBA

Certificate of Authorization

Manitoba Hydro

No. 38

 **Manitoba  
Hydro**

## Executive Summary

The purpose of this document is to demonstrate that Manitoba Hydro has fulfilled all obligations required to obtain a Fifth Renewal Licence under The Water Power Act C.C.S.M. c. W60 (The Water Power Act) for the Pointe du Bois Generating Station (GS). This document provides details on the observances of all the terms and conditions under the Fourth Renewal Licence, Fourth Short Term Extension Licence and Manitoba Regulation 25/88R pursuant to The Water Power Act (the Regulation). Manitoba Hydro is providing this documentation to assist the Minister responsible for The Water Power Act in the decision to issue a Fifth Renewal Licence for the Pointe du Bois GS.

Pointe du Bois GS has a licensed capacity of about 85 Megawatts (MW) (114,000 horsepower). Pointe du Bois GS is located approximately 170 kilometres (km) northeast of Winnipeg on the Winnipeg River and it is roughly 120 km upstream of Lake Winnipeg and 30 km from the Manitoba-Ontario border.

Manitoba Hydro operates the Pointe du Bois GS under the authority of a Fourth Renewal Water Power Act Licence and in accordance with a Fourth Short-Term Extension Licence (STEL). Manitoba Hydro operated the Pointe du Bois GS in accordance with the Fourth Renewal Licence that was valid for a term of 20 years ending January 1, 2012. Manitoba Hydro submitted the application for a Fifth Renewal Licence on August 1, 2007. Manitoba Hydro requested STELs to allow the licence renewal to occur at a later date. The First STEL covered the period from January 1, 2012 to January 1, 2017. The Second STEL covered the period from January 1, 2017 to January 1, 2022. The Third STEL covered the period from January 1, 2022 to January 1, 2025. The Fourth STEL covers the period from January 1, 2025 to December 31, 2025.

Division 1 of this document provides an overview of the project, its history and operation. Division 2 provides context for the decision to renew the licence for another 50 years. Division 3 demonstrates how Manitoba Hydro has fulfilled terms of the Short-Term Extension and Renewal Licences and shows compliance with pertinent articles of the Regulation. Division 4 concludes the report highlighting Manitoba Hydro's commitment to the ongoing safe operation of Pointe du Bois GS and its request for a Fifth Renewal Licence under The Water Power Act.

# Table of Contents

Executive Summary.....	i
List of Figures.....	iii
List of Tables.....	iv
<b>Division 1 – Introduction and Background .....</b>	<b>1</b>
Purpose .....	1
Report Overview.....	1
The Water Power Act.....	1
Licensing Background.....	2
Renewal Licence Area.....	4
Project Description.....	4
Physical Structures.....	5
Project Upgrades.....	7
Operational Description.....	8
Historic Power Generation .....	9
Existing Project Significance in Manitoba Hydro System.....	10
Dam Safety Summary.....	10
Annual Reporting.....	12
Community Involvement.....	13
The Heritage Resources Management Program .....	14
Coordinated Aquatic Monitoring Program .....	14
Environment Act Licensing.....	15
Environmental Management System at Manitoba Hydro .....	15
Public Safety .....	16
<b>Division 2 – Renewal Licence Request .....</b>	<b>18</b>
Renewal Licence Term .....	18
Renewal Licensed Capacity.....	18
Renewal Licence Area.....	18
<b>Division 3 – Compliance with Renewal Licence and Regulations.....</b>	<b>20</b>
Observance of Fourth Renewal Licence Terms.....	20
Observance of Fourth Short-term Extension Licence Terms.....	27
Observance of Pertinent Water Power Act Regulation Articles .....	29
<b>Division 4 – Closure Statement .....</b>	<b>41</b>

Figures .....	42
Appendix A: Renewal Licence Request.....	64
Appendix B: Pointe du Bois GS Water Power Act Renewal and Short-term Extension Licences .....	69
Appendix C: Maintenance and Construction Record .....	88
Appendix D: Reference Documents.....	92
Appendix E: Pointe du Bois Licence Implementation Guide .....	109
Appendix F: Glossary.....	130

## List of Figures

Figure 1: Geographical Location of Pointe du Bois Generating Station .....	43
Figure 2: Photograph Aerial View of Pointe du Bois Generating Station.....	44
Figure 3: Original Plan of Development of Pointe du Bois GS .....	45
Figure 4: Original Plan of Powerhouse.....	46
Figure 5: Cross Section of Powerhouse .....	47
Figure 6: Unit 1 Straflo Unit.....	48
Figure 7: Vehicle Access Bridge .....	49
Figure 8: Spillway Replacement Project - Arrangement of New and Existing Structures.....	50
Figure 9: Spillway Replacement Project - Spillway Plan & Sections .....	51
Figure 10: Spillway Replacement Project - Spillway Elevation & Cross Section.....	52
Figure 11: Spillway Replacement Project - Earthfill Dams Sections .....	53
Figure 12: Pointe du Bois GS Historic Water Level Compliance.....	54
Figure 13: Pointe du Bois GS Historic Power Generation (horsepower).....	54
Figure 14: Pointe du Bois Unit No.1 Straflo Nameplate.....	55
Figure 15: Pointe du Bois Unit No.2 Nameplate .....	56
Figure 16: Pointe du Bois Unit No.3 Nameplate .....	57
Figure 17: Pointe du Bois Unit No.4 Nameplate .....	57
Figure 18: Pointe du Bois Unit No.5 Nameplate .....	58
Figure 19: Pointe du Bois Unit No.6 Nameplate .....	58
Figure 20: Pointe du Bois Unit No.7 Nameplate .....	59
Figure 21: Pointe du Bois Unit No.8 Nameplate .....	59
Figure 22: Pointe du Bois Unit No.9 Nameplate .....	60

Figure 23: Pointe du Bois Unit No.10 Nameplate.....	60
Figure 24: Pointe du Bois Unit No.11 Nameplate.....	61
Figure 25: Pointe du Bois Unit No.12 Nameplate.....	61
Figure 26: Pointe du Bois Unit No.13 Nameplate.....	62
Figure 27: Pointe du Bois Unit No.14 Nameplate.....	62
Figure 28: Pointe du Bois Unit No.15 Nameplate.....	63
Figure 29: Pointe du Bois Unit No.16 Nameplate.....	63

## List of Tables

Table 1: Pointe du Bois GS Major Characteristics.....	6
Table 2: Pointe du Bois GS Principal Structures.....	6
Table 3: Annual Water Level Compliance Reported in Annual Water Levels and Flows Compliance Report.....	24

## Division 1 – Introduction and Background

### Purpose

The purpose of this document is to demonstrate that Manitoba Hydro has fulfilled all obligations required to obtain a Renewal Licence under The Water Power Act C.C.S.M. c. W60 (The Water Power Act) for the Pointe du Bois Generating Station (GS). The document provides details on the observances of all the terms and conditions under the 1992 Renewal Licence and Manitoba Regulation 25/88R pursuant to The Water Power Act (the Regulation). Manitoba Hydro is providing this documentation to assist the Minister responsible for The Water Power Act in the decision to issue a Fifth Renewal Licence for the Pointe du Bois GS.

### Report Overview

Division 1 of this document provides background information including an overview of the project, its history and operation, and highlights Manitoba Hydro's commitment to dam safety and the project's significance in the overall system. Division 2 summarizes the key aspects of the Renewal Licence requiring provincial decision and approval. Division 3 demonstrates how Manitoba Hydro has fulfilled terms of the Short-Term Extension and Renewal Licences and shows compliance with pertinent articles of the Regulation. Manitoba Environment and Climate Change (MECC) agreed to the selection of pertinent articles of the Regulation. This document references previous names of MECC. Division 4 concludes the report highlighting Manitoba Hydro's commitment to the ongoing safe operation of Pointe du Bois GS and its request for a Fifth Renewal Licence under The Water Power Act.

### The Water Power Act

Manitoba grants the right to develop water power under the authority of The Water Power Act and the Regulation. The Water Power Act is part of a suite of natural resource allocation acts through which the province allows various entities to develop Crown resources for the benefit of all Manitobans. It is broad in its application in that it provides authority for Manitoba to; allocate provincial water powers and Crown lands required for the development of water power, expropriate private lands, authorize the construction of all undertakings with respect to the water power development, regulate all power and energy produced, and to authorize all incidental matters.

The Water Power Act allows for a licence to take on one of three main types: Interim, Final and Renewal, depending on the stage of development. Manitoba issues an Interim Licence prior to start of construction subject to certain terms and conditions. Upon successful completion of the development and satisfaction of the Interim Licence terms and

conditions and the Regulation, the licensee is entitled to receive a Final Licence. When granted, a Final Licence will expire in no more than fifty years from the date the project went into service. Between four and six years before expiry, the licensee is expected to apply for a Renewal Licence.

Since 2009, Manitoba's regulations include a provision for Short Term Extension Licences (STELs). STELs can add a term up to five years to a Final Licence or a Renewal Licence and can also retroactively apply to an expired Final Licence. STELs must include the terms and conditions in the Final or Renewal Licence.

More information on Water Power Act Licensing is available on the provincial web site at: <https://www.gov.mb.ca/sd/water/water-power/index.html>.

## Licensing Background

Manitoba Hydro currently operates the Pointe du Bois GS in accordance with a Fourth STEL for the development of water power at the Pointe du Bois Site on the Winnipeg River. The Fourth STEL was issued December 23, 2024 and is in effect until December 31, 2025.

Pointe du Bois GS was originally owned and operated by City Hydro, later known as Winnipeg Hydro. Manitoba Hydro acquired the Pointe du Bois GS on September 3, 2002 from Winnipeg Hydro. The following outlines the generating station's licensing background.

### City Hydro/Winnipeg Hydro:

City Hydro operated Pointe du Bois GS with a Final Licence issued January 29, 1918 in accordance with the provisions of the Water Power Act for a term of 20 years from November 1, 1911 to October 31, 1931. A Renewal Licence was granted to City Hydro, to be computed from the first day of January, 1932 for an additional 20 years. City Hydro became Winnipeg Hydro in 1964 and subsequent Renewals were issued in accordance with Section 46 of the Regulation as follows:

- The First Renewal Licence covered the period from January 1, 1932 to December 31, 1951.
- The Second Renewal Licence covered the period from January 1, 1952 to December 31, 1971.
- The Third Renewal Licence covered the period from January 1, 1972 to December 31, 1991.

- The Fourth Renewal Licence covered the period from January 1, 1992 to December 31, 2011.

#### Manitoba Hydro:

Manitoba Hydro took over operation of the Pointe du Bois GS in 2002, and operated in accordance with the Fourth Renewal Licence covering the period from Jan 1, 1992 to Dec 31, 2011. Manitoba Hydro submitted an application for a Fifth Renewal Licence on August 1, 2007 outlining the intent to modernize the facility. On October 15, 2007, Manitoba Stewardship acknowledged the Renewal request and intent to modernize.

In accordance with section 92(6) of the Water Power Regulation, Manitoba Hydro has also been issued the following Short Term Extension Licences:

- First STEL covered the period from January 1, 2012 to and including January 1, 2017.
- Second STEL covered the period from January 1, 2017 to and including January 1, 2022.
- Third STEL covered the period from January 1, 2022 to and including January 1, 2025.
- Fourth STEL covers the period from January 1, 2025 to and including December 31, 2025.

Copies of letters regarding the licence renewal request are included in [Appendix A](#), and all licences are included in [Appendix B](#).

#### The Pointe du Bois Spillway Replacement Project

After Manitoba Hydro applied for a renewal licence, it was decided to modernize the facility. The Pointe du Bois Spillway Replacement Project commenced in 2011 and was completed in 2015. The project involved the replacement of the east gravity dam, spillway bays and rockfill dam with a newer 7-bay spillway as well as main and south earthfill dams. Manitoba Hydro submitted a Request for Authorization for the Spillway Replacement Project on December 9, 2011. It included a WPA Licensing Support Document containing the statement and plans of the proposed change to the existing works. On October 19, 2012 MH submitted a request for Authorization with a revised arrangement (and submitted an Alteration Report to the Province of Manitoba on August 17, 2012). The project was approved by Manitoba Conservation and Water Stewardship on December 6, 2012.

Copies of both letters are included in [Appendix D](#).

## Renewal Licence Area

Manitoba drawing number 21-12-1018 (Manitoba Hydro's file number 1-00102-DE-11500-0051 0001) shows the Renewal Licence area (land within the severance line) which includes lands impacted by raised water levels along the Winnipeg River from Pointe du Bois forebay upstream to Lamprey Falls.

## Project Description

The Pointe du Bois Generating Station is the oldest station in the Manitoba Hydro system. It is a run-of-river hydroelectric generating facility consisting of a powerhouse, west gravity dam, main and south earthfill dams, a spillway access bridge and a 7-bay spillway. The station has a licensed capacity of 85 MW (114,000 HP).

The Pointe du Bois GS is located on the Winnipeg River in the Whiteshell Provincial Park, approximately 160 km northeast of Winnipeg by road. The station is approximately 120 km upstream of Lake Winnipeg and about the 30 km from the Manitoba-Ontario border, as shown in [Figure 1](#). The station is the most upstream generating station on the Winnipeg River in Manitoba and is in Treaty 3 territory and in the homeland of the Red River Metis. An aerial photo of the site is shown on [Figure 2](#) which also indicates the major project components.

The Winnipeg River drainage basin is an approximately 150,000 km<sup>2</sup> area that lies mostly in northwestern Ontario but also includes the south east portion of Manitoba and northern Minnesota in the United States. Most of the basin is located within the Canadian Shield and is scattered with many lakes and rivers including the Winnipeg, Bird, Lee, Whitemouth and English Rivers. The basin is mainly forested and rocky.

Although the Winnipeg River system is approximately 765 km in length, running from a few kilometres west of Lake Superior to Lake Winnipeg, the Winnipeg River is approximately 260 km long from Lake of the Woods in a north-westerly direction, draining into Lake Winnipeg. Due to the multi-purpose nature of the Winnipeg River drainage basin, Lake of the Woods Control Board (LWCB) manages outflows from Lake of the Woods and Lac Seul in Ontario which affects timing of flow on the Winnipeg River in Manitoba. The International Rainy-Lake of the Woods Watershed Board also monitors the ecological health of the Lake of the Woods and Rainy Lake boundary waters.

Manitoba Hydro owns and operates six hydraulic generating stations on the Winnipeg River listed below from east to west:

1. Pointe Du Bois Generating Station

2. Slave Falls Generating Station
3. Seven Sisters Generating Station
4. McArthur Falls Generating Station
5. Great Falls Generating Station
6. Pine Falls Generating Station

## Physical Structures

The Pointe du Bois GS consists of a 16 unit powerhouse, west gravity dam, main and south earthfill dams, a spillway access bridge and a newer 7-bay spillway.

The construction of the station was completed in phases, with the first phase of development beginning in 1906. Turbine units were installed over the course of many years from 1911 to 1926. The original plan of the development is shown in [Figure 3](#) and original plan and cross section of the powerhouse is shown in [Figure 4](#) and [Figure 5](#). Several upgrades were made which increased the total capacity of the generating station. Infrastructure upgrades were also made, including the spillway access bridge in 2010 and in 2015, the Pointe du Bois Spillway Replacement Project was completed and involved the replacement of the east gravity dam, spillway bays and rockfill dam with a newer 7-bay spillway as well as main and south earthfill dams.

[Table 1](#) and [Table 2](#) summarize major characteristics of the station and project components.

Table 1: Pointe du Bois GS Major Characteristics

Construction Period	1909 to 1926
Licensed Capacity	85 MW (114,000 horsepower)
Average Annual Generation (2007-2023)	327 million kW-h
Waterfall Drop (head)	14 m
Maximum Licence Forebay Elevation (measured at the inner forebay)	299.04 m (981.1 ft)
Normal Operating Maximum Forebay Elevation (measured at the outer forebay)	299.1 m (981.3 ft)

Table 2: Pointe du Bois GS Principal Structures

Powerhouse	Number of Units = 16	15 double horizontal shaft Francis Turbines and one Straflo turbine
	Length	135 m
	Discharge Capacity (at full gate)	712 m <sup>3</sup> /s
	Generating Capacity	
	Unit 1	1 unit @ 11,220 HP
	Units 2-4, 7	4 units @ 5,200 HP
	Units 5, 6, 8	3 units @ 6,800 HP
	Units 9, 10	2 units @ 6,900 HP
Unit 11	1 unit @ 7,600 HP	
Units 12-14	3 units @ 7,300 HP	
Units 15, 16	2 units @ 9,120 HP	
Units 3, 5, 7, 11	4 units removed in 2016	
Spillway	Number of Bays	7 bays
	Bay Opening	13 m
	Discharge Capacity (at <b>full supply level</b> *)	4,915 m <sup>3</sup> /s
Main and South Earthfill Dams	Material	Impervious core with granular and crushed rock filters and outer rockfill shells
	Crest Elevation	300.1 m
	Available Freeboard	1 m

\*Full Supply Level is 299.1 m measured at the outer forebay

## Project Upgrades

[Appendix C](#) shows the 2008 to 2023 maintenance and construction record information.

Some major upgrades made to the Pointe du Bois GS involving physical structures and changes in capacity are highlighted below. Over the years, upgrades to the units increased the total capacity of the generating station to 85 MW (114,000 HP).

Winnipeg Hydro:

- In October 1995, Unit 11 was rerunners and its capacity increased from 5.15 MW (6,900 HP) to 5.67 MW (7,600 HP).
- In 1999, Unit 1 was replaced with a Straflo turbine with a rating of 8.35 MW (11,220 HP). The Straflo Unit 1 is shown on [Figure 6](#).

Manitoba Hydro:

- In 2004, Unit 15 was upgraded and in 2006, Unit 16 was upgraded, each to an increased capacity of 6.8 MW (9,120 HP).
- In 2010, a vehicle access bridge across the intake channel to the spillway structures was constructed which is shown on [Figure 7](#).
- In 2015, the Pointe du Bois Spillway Replacement Project was completed and involved the replacement of the east gravity dam, spillway bays and rockfill dam with a newer 7-bay spillway as well as main and south earthfill dams, shown in [Figures 8 - 11](#).
- In 2016, Units 3, 5, 7, and 11 were decommissioned and removed from the generating station, resulting in a decreased total capacity of 66.5 MW (89,200 HP).

### Pointe du Bois Renewable Energy Project (PREP)

Manitoba Hydro is replacing some of the original generating units that are nearing the end of life and proposing to enhance our transmission capacity and reliability in the area. The Pointe du Bois Renewable Energy Project will see the installation of eight new double horizontal shaft Francis Turbines generating units with a capacity of 6.75 MW each. Units 2, 4, 8 and 9 will be decommissioned and replaced. Units 3, 5, 7 and 11 have already been removed and will have new units installed. The PREP project will include other upgrades to the powerhouse and transmission system to accommodate the eight new units. No change to the current licenced capacity of Pointe du Bois is required for this project.

This upgrade will extend the operable life of the station to at least 2055. A new 115-kV transmission line will stretch about 50 kilometres from Pointe du Bois to the existing Whiteshell substation and requires a Class 2 licence under *The Environment Act*

(Manitoba). The PREP project is currently undergoing engagement with the public and Indigenous communities.

On November 10, 2023 MECC confirmed via letter that the PREP project does not require authorization under Article 64 of the Water Power Regulation. (letter attached in [Appendix D](#))

## Operational Description

Manitoba Hydro currently operates the Pointe du Bois GS under a Fourth STEL issued on December 23, 2024 and Fourth Renewal Water Power Act Licence in accordance with the provisions of The Water Power Act.

The Pointe du Bois GS is operated from the control room on site and is continuously staffed. Maintenance and emergency staff are located at the station. Manitoba Hydro operates the generating station in a run-of-river mode. The forebay at Pointe du Bois consists of two parts: the inner forebay, located between the powerhouse and the spillway access bridge, and the outer forebay, extending upstream of the spillway access bridge to Lamprey Falls. The inner forebay elevation is subject to rapid changes due to wind, flow changes and operations. The outer forebay encompasses a larger area and does not experience the same rapid changes as the inner forebay. The forebay has a total area of 25.1 km<sup>2</sup> and a fetch length of approximately 5 km. The maximum operating level is 299.1 m (981.3 ft) measured at the outer forebay. Flow releases in Ontario and local watershed runoff affect Winnipeg River inflows.

The flow on the Winnipeg River as it enters Manitoba is regulated in Ontario upstream of Manitoba Hydro's generating stations. The Lake of the Woods Control Board (LWCB) is a Canadian board which manages the water levels of Lake of the Woods and Lac Seul, and the flows in the Winnipeg River and English River downstream of these lakes to their junction. The LWCB consists of four members: one representing Federal interests, two representing Ontario and one representing Manitoba. Manitoba Hydro represents its views as one of many interested parties in meetings with the LWCB to provide input into LWCB's regulation strategy based on current and projected water conditions in Manitoba.

Manitoba Hydro operates the Pointe du Bois GS in run of river mode, meaning water flowing from upstream is passed downstream immediately and is not stored in a reservoir for later use. This operating mode results in a stable outer forebay water level of 299.1 m (981.3 ft). This outer forebay water level maintains an inner forebay level, measured at the powerhouse, below the inner forebay upper limit specified in the licence. Historically the plant has been operated to maintain an outer forebay level of 299.1 m (981.3 ft).

## Historic Power Generation

Pointe du Bois GS started producing power in 1911 with 7 generating units. Additional units were added until the sixteenth and final unit was installed in 1926. The GS has a long history of unit upgrades, some occurring prior to Manitoba Hydro acquiring the Pointe du Bois GS from Winnipeg Hydro in 2002.

The completion of double horizontal shaft Francis Turbines units 1 to 4 and unit 7 in 1911/12 had ratings of 5,200 horsepower (HP). Units 5 and 6 were added in 1914 at 6,800 HP each, unit 8 in 1919 also at 6,800 HP, Unit 9 in 1921 at 6,900 HP, Unit 10 in 1922 at 6,900 HP, Unit 11 in 1922 at 6,900, Unit 12 and 13 at 7,300 HP each, Unit 14 in 1926 at 7,300 HP and lastly, Units 15 and 16 in 1926 at 8,000 HP each. The original capacity of the station was 78 MW (105,000 HP).

In October 1995, Unit 11 was rerunnered and its capacity increased from 6,900 HP to 7,600 HP. In November 1999, Unit 1 was replaced with a Straflo turbine with a rating of 11,220 HP. Unit 15 in 2004 and Unit 16 in 2006 were also upgraded, each with increased capacity of 9,120 HP. All these upgrades increased the total capacity of the generating station to 85 MW (114,00 HP). [Figures 14 to 29](#) show the current nameplates for each of the units.

In 2016, Units 3, 5, 7, and 11 were decommissioned and removed from the generating station. The total capacity of the generating station decreased to 66.5 MW (89,200 HP).

[Figure 13](#) shows the monthly power generation and the Pointe du Bois powerhouse capacity from 2002 to 2023. The primary factors responsible for the gap between the capacity limit and actual generation include decommissioned units, local transmission limitations, flow conditions and unit outages for maintenance and upgrades.

Manitoba Hydro's objective is to plan for the secure and economic operation of Manitoba Hydro's system of reservoirs and generating stations while considering the effects on interested parties and the environment. Manitoba Hydro optimizes energy generation across the overall system through the development and implementation of modern technology and computer programs. A computer-based control system installed in 1984 in the System Control Centre in Winnipeg enables operators to monitor Manitoba Hydro's generating stations, transmission lines and exports. The computer systems are able to automatically adjust electricity generation to correspond with customers' needs. The Market Optimized Short Term (MOST) computer model enables operators to make optimal decisions based on real time inputs.

## Existing Project Significance in Manitoba Hydro System

Currently, Pointe du Bois Generating Station provides about 1% of the energy generated in the Manitoba Hydro system, with the Winnipeg River stations providing about 11% of the total capacity in the Manitoba Hydro system in 2022/23. (In 1977, the Winnipeg River Stations supplied approximately 36% of the total Manitoba load). Even though the Pointe du Bois Generating Station is relatively small, the Winnipeg River generating stations make efficient use of the water resource as the water travels from the Ontario border to Lake Winnipeg.

The natural falls and the river's relative proximity to Winnipeg made the Winnipeg River an excellent prospect for hydroelectric development. As the electricity demand increased for industrial, agricultural and domestic needs, seven generating stations were built on the Winnipeg River between 1902 and 1955.

Manitoba Hydro completed the **Farm Electrification Program** in 1954 and with the construction of Winnipeg River plants, electricity became more available and affordable to people across the province. By that time, Manitoba had the distinction of being western Canada's most electrified province (75% of all farms in Manitoba had electrical service).

Finally, Pointe du Bois GS is an integral part of an overall hydro system which generates renewable energy as it helps to reduce carbon emissions. By doing so, it supports the Manitoba Clean Energy Strategy which focuses on protecting the environment while promoting a prosperous and environmentally conscious economy.

## Dam Safety Summary

Manitoba Hydro's **Dam Safety Program** is based on the Canadian Dam Association (CDA, 2007) Guidelines and operates in accordance with two key CDA principles:

### Principle 1a

*The public and the environment shall be protected from the effects of dam failure, as well as release of any or all retained fluids behind a dam, such that the risks are kept as low as reasonably practicable.*

### Principle 2d

*Documented surveillance procedures shall be followed to provide early identification and to allow for timely mitigation of conditions that might affect dam safety.*

Manitoba Hydro's program objectives aim to detect changes in the condition of dams and to initiate timely remedial measures when necessary. The program includes visual

inspections, instrument data analysis, engineering analysis, testing, evaluations, and reporting. Manitoba Hydro follows inspection guidelines for surveillance of concrete and embankment dams based on the dam classification, condition and professional judgment.

Both existing and newly constructed concrete and embankment dams at Pointe du Bois continue to be inspected at regular intervals for any anomalies or deficiencies. Manitoba Hydro staff perform routine inspections weekly for the embankment dams and every two months for the concrete structures, including the spillway. Intermediate inspections of all dams are performed by specialists from Manitoba Hydro's Engineering Services Division twice per year. Data from inspections, engineering analysis and instrumentation readings are used to assess the condition of the structures.

The new seven-bay spillway at Pointe du Bois completed in 2015 is capable of passing the inflow design flood, in accordance with the CDA guidelines. The spillway and related equipment are inspected by site staff on a weekly basis with the electrical and mechanical components being maintained annually.

A formal **Dam Safety Reviews (DSR)** has not yet been completed at Pointe du Bois; however, one is tentatively planned for 2024/25. DSRs are typically undertaken of generating stations and water control structures on an intermittent schedule. This type of review is a systematic evaluation of dam safety through a comprehensive performance assessment of the structures and review of original design, construction, operation and maintenance records to ensure that the generating station meets current industry standards. The CDA Guidelines are the applicable standard. Qualified external consulting engineering firms carry out DSRs and typically include a site inspection of the station, dams, and spillway gates, including mechanical and electrical aspects of gate operation. A comprehensive DSR report includes observed deficiencies and recommendations for follow-up.

Pointe du Bois GS underwent a **Failure Modes and Effects Analysis (FMEA)** in 2007. A FMEA is a method or process of risk analysis used by the Dam Safety industry to better assess and understand the condition and performance of dams and the effects or consequences of possible failures. The method involves identifying individual component or structural failure modes, assuming a set of faults or initiating conditions, that can lead to a dam failure (an uncontrolled release of the reservoir) or other adverse consequences. The FMEA then involves classifying these failure modes into one of four categories according to an understanding of the significance of that failure mode on the system, the potential for

occurrence, the magnitude of the consequence and the likelihood of an adverse response. The process also helps to identify and prioritize appropriate risk reduction measures.

Manitoba Hydro maintains **Dam Safety Emergency Plans** for all of its generating stations. These plans are consistent with the CDA's Dam Safety Guidelines and bulletins and are issued to local authorities and emergency response agencies to assist in responding to an emergency situation. The emergency plans for Pointe du Bois are combined with Slave Falls in the **Pointe du Bois and Slave Falls Dam Safety Emergency Plan**. This plan contains detailed information regarding the verification, and classification of the emergency, and contains communication notification and reporting procedures as well as guidance for emergency response.

Manitoba Hydro updates notification charts in the emergency plans annually to reflect ongoing personnel and content change.

## Annual Reporting

Prior to 2007, Manitoba Hydro regularly provided Manitoba with raw data records from its generating stations. Since 2007, Manitoba Hydro has submitted the **Annual Water Levels and Flows Compliance Report** to the Province. The report contains information on data collection, verification and reporting related to Water Power Act licences, as well as a summary of deviations from licence conditions during the year. Manitoba Hydro and Manitoba Environment and Climate Change (MECC) use the information in this report as a framework for monitoring and reporting licence compliance.

MECC publishes the **Annual Water Levels and Flows Compliance Reports** on its website at

[https://www.gov.mb.ca/sd/about/articles-and-publications/index.html?wg=water\\_power\\_licensing](https://www.gov.mb.ca/sd/about/articles-and-publications/index.html?wg=water_power_licensing).

The **Pointe du Bois Licence Implementation Guide (LIG)** defines the methodology for evaluating, notification of, and reporting non-compliance with respect to critical water levels. Manitoba Hydro prepares this guide to document a common understanding with the regulator of compliance with the water regime terms of the Pointe du Bois Water Power Act Licence. In November 2017 MH prepared the Pointe du Bois LIG and it was approved and published by MECC on its website at <https://www.gov.mb.ca/sd/water/water-power/pointe-du-bois-generating-station/index.html>. A revised Pointe du Bois LIG was prepared in December 2022 to include terms and conditions found in the Pointe du Bois Water Power Act Third Short-term Extension Licence and its cover letter.

A copy of the revised implementation guide can be found in [Appendix E](#).

## Community Involvement

One of Manitoba Hydro's foundational principles is respectful engagement with communities and stakeholders affected by its system and operations with a priority to respect and support Indigenous peoples in all aspects of its business. In addition to having a business unit dedicated to External & Indigenous Relations and Communications, Manitoba Hydro has a section within the Waterway Approvals and Monitoring Department tasked with community and interested party engagement on hydro system waterways (Waterway Community Engagement Section).

Manitoba Hydro's Waterway Community Engagement Section strives to be inclusive with everyone having an interest in waterways affected by Manitoba Hydro. The staff in this section identified and reached out to over 20 municipalities, Indigenous communities and non-government organizations along the Winnipeg River, including those in the vicinity of the Pointe du Bois Generating Station. Manitoba Hydro staff has had discussions with individuals, groups and communities that have raised concerns or interest in learning about Manitoba Hydro's operations. Manitoba Hydro engages with Indigenous communities with an interest in Winnipeg River operations, including the Pointe du Bois Generating Station, on an ongoing basis.

In 2015, the **Pointe du Bois Spillway Replacement Project** was completed. The engagement process began in 2007 and included open houses and feedback mechanisms with public, local interested parties and communities. Individualized meetings also occurred with the Sagkeeng First Nation, Brokenhead Ojibway Nation, Manitoba Metis Federation (MMF) and other local communities and organizations.

The 2021 Pointe du Bois and Slave Falls Short-Term Extension Licences included a requirement for Manitoba Hydro to report annually on Indigenous engagement about the ongoing operation of these generating stations. The **Winnipeg River Indigenous Engagement Report** describes engagement activities undertaken with respect to all plants on the Winnipeg River, as dialogue with Indigenous communities is not generally specific to an individual generating station. Manitoba Hydro engages with Black River First Nation, Brokenhead Ojibway Nation, Hollow Water First Nation, Peguis First Nation, Sagkeeng First Nation, the Manitoba Metis Federation, Aghaming Community Council, Manigotagan Community Council, and Seymourville Community Council about Winnipeg River operations.

On June 27, 2024, Manitoba Hydro submitted the annual **Winnipeg River Indigenous Engagement Report** to Manitoba Environment and Climate Change (MECC) that covered

activities from June 16, 2023 to June 15, 2024. The report is published on the MECC website at <https://www.gov.mb.ca/sd/about/articles-and-publications/index.html?wg=ier>

## The Heritage Resources Management Program

Manitoba Hydro is committed to safeguarding cultural and heritage resources through its **Heritage Resource Management Program (HRMP)**. The HRMP is designed to aid in heritage resource planning, management, training, and mitigation. The HRMP also undertakes annual archaeological monitoring, throughout Manitoba Hydro's hydraulic system, related to registered heritage sites at potential risk due to Manitoba Hydro's operations. This work includes notification and collaboration with local communities on a rotational basis depending on annual field work requirements.

## Coordinated Aquatic Monitoring Program

Manitoba Hydro and the Province of Manitoba jointly manage the **Coordinated Aquatic Monitoring Program (CAMP)** through a partnership. This long-term program studies and monitors the health of water bodies affected by Manitoba Hydro's generating system. The geographic scale of CAMP makes it the largest holistic ecosystem-based aquatic monitoring program in Manitoba. The purpose of CAMP is to strengthen the understanding of the effects of hydroelectric activity on the aquatic ecosystem and support more informed decision making when it comes to water management.

Healthy fish populations exist above and below the Pointe du Bois Generating Station. Manitoba Hydro is aware that a healthy recreational fishery exists on the Winnipeg River above Pointe du Bois used by cottagers located in the forebay area as well as the commercial tourism industry (fishing lodges). Downstream of the Pointe du Bois GS, in addition to the regular assemblage of fish species and the associated recreational fishery, a healthy population of lake sturgeon exists.

CAMP has an established annual monitoring site in the Pointe du Bois forebay and at Lac du Bonnet. Monitoring at these sites has helped characterize the fish species composition, water quality, and other aquatic ecosystem conditions along the Winnipeg River. More information about CAMP is available at [www.campmb.ca](http://www.campmb.ca).

The provincial website has additional information on water quality at <https://www.gov.mb.ca/sd/water/lakes-beaches-rivers/index.html>.

As noted in the recently issued Final Licences for Churchill River Diversion, Lake Winnipeg Regulation and Jenpeg, CAMP will be expanding in the future to include "shoreline erosion, shoreline wetland issues and monitoring of terrestrial and riparian components and

shoreline health with the inclusion of Indigenous community participation and Indigenous traditional knowledge.”

## Environment Act Licensing

The intent of Environment Act (EA) Licensing is to develop and maintain an environmental protection and management system in Manitoba which will ensure that the environment is protected and maintained to sustain a high quality of life, including social and economic development, recreation and leisure for present and future generations. The EA has been in effect in Manitoba since March 31, 1988. Manitoba Hydro is not required to obtain EA licences for any of its legacy projects as these projects predate this legislation. However, if a station would undergo major changes to the existing project configuration, Manitoba Hydro would be required to seek an EA Licence. The **Pointe Du Bois Spillway Replacement Project** was considered a major change or new works and required an Environmental Impact Statement (EIS). Manitoba Hydro submitted an EIS for the project to federal and provincial regulators on June 17, 2011. Environment Act Licence 2988 was issued on January 6, 2012.

Manitoba Hydro is required to obtain EA licences and permits for the addition of supporting infrastructure associated with generating stations such as wastewater treatment plants, lagoons and landfills.

Manitoba Hydro maintains compliance with its EA licences and manages other environmental risks through Manitoba Hydro’s **Environmental Management System** described below.

The Provincial website has more information on Environment Act Licensing.  
[https://www.gov.mb.ca/sd/permits\\_licenses\\_approvals/eal/index.html](https://www.gov.mb.ca/sd/permits_licenses_approvals/eal/index.html).

## Environmental Management System at Manitoba Hydro

Manitoba Hydro has an **Environmental Management System (EMS)** in place that aligns with the ISO 14001 Standard requirements. The EMS is a set of tools and processes a company uses to realize its environmental goals. Having a good EMS enables a company to identify its environmental impacts, set goals to manage them, implement plans to meet those objectives, evaluate performance, and make continual improvements to the system.

We are a member of the Canadian Electricity Association (CEA) and an active participant in the Sustainable Electricity Program. Sustainable electricity is an industry-wide sustainability initiative developed and implemented by CEA and its utility members. Sustainable electricity is our response to the challenge of creating a sustainable tomorrow.

Manitoba Hydro's EMS information can be found at the corporate website:

[https://www.hydro.mb.ca/environment/env\\_management/](https://www.hydro.mb.ca/environment/env_management/)

## Public Safety

In 2009 Manitoba Hydro introduced a **Public Water Safety Around Dams (PWSD)** program. As part of the program, Manitoba Hydro develops a site specific PWSD Site Management Plan for each of its generating stations and control structures. These Site Management Plans address public water safety issues by identifying hazards to the public created by the presence and operation of the Manitoba Hydro facility/structure and then implementing the safety Control Measures required in response. Implementation of these Control Measures occurred from 2012 to 2023 based on the priority of the identified risks. Also part of the PWSD Program, these individual Site Management Plans and implemented Control Measures are reviewed on a planned 5 year frequency.

Manitoba Hydro maintains a **PWSD Management Plan** for the Pointe du Bois GS that was developed by KGS ACRES. The identified Control Measures included signage, fencing, seasonal booms, and a dedicated Portage. Manitoba Hydro installs the safety booms upstream from the spillway and vehicle access bridge annually in the spring and removes them in the fall. The Dangerous Waterway Zone for Pointe du Bois changes with flow conditions and is communicated to the public on signs located at the boat launches.

Manitoba Hydro places reminders regarding the federal prohibition against fishing within 23 metres of a dam in multiple public areas and in publications.

The public can review safety information around our facilities on Manitoba Hydro's website [https://www.hydro.mb.ca/safety/around\\_our\\_facilities/](https://www.hydro.mb.ca/safety/around_our_facilities/).

# PUBLIC WATER SAFETY AROUND DAMS PROGRAM

Manitoba Hydro developed the Public Water Safety Around Dams program to address potential public safety hazards around hydroelectric facilities and water control structures.

## WHY DO WE NEED THIS PROGRAM?

Due to frequent and unpredictable changes in water levels and flow conditions, the waterways near hydroelectric facilities and water control structures can be dangerous to the public. This is especially true in the areas immediately upstream and downstream of the facilities and control structures. These potential hazards are not always well-known to the public.

Beginning in 2013, Manitoba Hydro conducted a risk analysis at each hydroelectric facility and water control structure to identify high, medium and low priority hazards. Safety measures were then selected based on the frequency of public exposure and the probability of an accident. These include the installation of signage, fencing, booms, and audible and visual warning devices such as sirens, strobe lights, and cameras.

Safety measures for high priority hazards were installed immediately following the risk analysis. Manitoba Hydro continues to move forward with the installation of safety measures for medium and low priority hazards.

The Public Water Safety around Dams Program maintains site management plans for each hydroelectric facility and water control structure. Site management plans are reviewed every five years, or sooner if conditions change, to determine if additional safety measures are required to address potential hazards.

## WHERE WILL SAFETY MEASURES BE INSTALLED?

The installation of new safety measures began in 2017 and has continued each following year. Installation work will continue throughout 2023.

LOCATION	SAFETY MEASURES			
	Signage	Fencing	Booms/Buoys	Warning Systems
Brendan Generating Station (G.S.)	✓	✓		
Churchill Weir <sup>1</sup>	X		X	
Cross Lake Weir	✓		X	
Esper Lake Dam	✓		X	
Grand Rapids G.S.	✓	✓		
Grout Falls G.S.	✓	✓	✓	
Isingish G.S.	✓	✓	✓	
Keeyask G.S. <sup>2</sup>	X		X	
Kelby G.S.	✓	✓	X	
Kuma G.S.	✓	✓	✓	✓
Laurie River 1 G.S.	✓	X		
Laurie River 2 G.S.	✓	X		
Limestone G.S.	✓	✓		
Long Spruce G.S.	✓	✓	✓	
Mausson Control Structure (C.S.)	✓	✓	✓	
Neepawa G.S.	✓	✓	✓	
Missi Falls C.S.	✓	X	✓	
Neely G.S. <sup>3</sup>	✓	✓	X	
Price Falls G.S.	✓	✓	✓	
Pont-A-Bass G.S.	✓	✓	✓	✓
Rat River Boom #4	✓			
Recess Lake Dam	✓			
Selkirk G.S.	✓	✓		
Seven Sisters G.S.	✓	✓	✓	
Steele Falls G.S.	✓	✓	✓	
Thompson Ice Boom	✓			

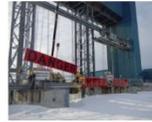
<sup>1</sup> The construction of a boat channel is also planned at the Churchill Weir to provide safe access to the recreational area on the west side of the weir.

<sup>2</sup> The Keeyask G.S. is being developed by the Keeyask Hydroproject Limited Partnership.

<sup>3</sup> The safety boom has been installed upstream of the Neely G.S. and new safety booms are planned to be installed downstream.

✓ Indicates work that has been completed.

X Indicates work is ongoing or planned.



Sign installed at Waskeween Generating Station



Fencing and gate installed at Grand Rapids Generating Station



Safety boom at Kettle Generating Station

## WHAT DOES THE WORK INVOLVE?

**Signage:**  
Installation of new sign plates and sign support structures to notify the public of hazardous areas.

**Fencing:**  
Installation of chain link fencing, person and vehicle gates, handrails, kickplates and vehicle guardrails at or near hazardous locations.

**Booms/Buoys:**  
Installation of safety booms and/or buoys in open water of hazardous areas.

**Warning Systems:**  
Installation of audible and visual warning devices at Limestone and Long Spruce Generating Stations to alert the public of upcoming changes in water flow or water levels prior to opening the spillway.  
Installation of a camera system at Kettle Generating Station to assist staff with visual checks prior to opening the spillway.

## ARE THERE ANY EMPLOYMENT OR BUSINESS OPPORTUNITIES?

Manitoba Hydro has publicly tendered the fencing, sirens/cameras and boom/buoy work through the MERX electronic bid submission system. The fencing installation work was split into regional work packages that included the evaluation of Indigenous content.

## ARE REGULATORY REVIEWS OR PERMITS REQUIRED?

Manitoba Hydro is working to ensure that the Public Water Safety Around Dams Program is in compliance with all environmental regulations. All required authorizations will be obtained to address federal and provincial legislation, including the Canadian Fisheries Act, Heritage Resources Act, Migratory Birds Convention Act, Navigation Protection Program and the Provincial Parks and Wildlife Act.

## FOR MORE INFORMATION CONTACT:

Gary Bishop  
Public Water Safety around Dams Program  
Phone: (204) 470-1992  
Email: gbi@hplhydro.mb.ca  
Available in accessible formats upon request.  
May 2023



## Division 2 – Renewal Licence Request

### Renewal Licence Term

Manitoba Hydro is committed to the safe and productive long-term operation of the Pointe du Bois GS and requests a 50 year term for this Fifth Renewal Licence. Section 45(1) of the Regulation limits the term of a Final Licence to no more than 50 years from the completion of the initial development. It is up to the Minister to determine the duration of the Renewal Licence term.

### Renewal Licensed Capacity

Manitoba Hydro requests that the Fifth Renewal Licence reflects the current installed capacity of 85 MW (114,000 HP).

### Renewal Licence Area

The proposed Fifth Renewal Licence area (land within the severance line) is similar to the existing Renewal Licence area. The main change is a reduction in required land made possible by better mapping technology and higher resolution aerial imagery.

The Water Power Act allocates Crown lands required in connection with the development of water power. A Fifth Renewal Licence implies a renewal of the decision to allocate Crown lands for another set term of time as defined by the Minister and specified by the Fifth Renewal Licence. A new severance line drawing that reflects all approved changes to the Renewal Licence area as defined by a severance line will be submitted separately from this report under Manitoba Hydro drawing file 1-00102-PE-07311-0023 and Manitoba file number WPL-1-00102-PE-07311-0023.

The Fifth Renewal Licence area is a combination of lands required for the project and impacted by the project. Manitoba Hydro is basing the Fifth Renewal Licence area as defined by the Final, Renewal and Short Term Extension Licences. It includes lands required for project structures, site access, and present and future maintenance activities. It also includes all lands impacted by project operations including;

- lands which could be unsafe to the public,
- lands which experience a modified water regime due to project operations, and
- lands which could prove to be geotechnically unstable as a result of project operations.

Manitoba Hydro conducted a site visit to view project components and corresponded with site staff regarding present and future land use and to confirm the proposed severance line

location. Manitoba Environment and Climate Change must review and agree to the proposed Renewal Licence area as part of the Renewal Licence process.

The Water Power Act Regulations require that the severance line that delineates a licence area is legally definable. Therefore, the severance line must be based on legal survey plans on record in the provincial land titles system or on the Dominion Government Survey System, or on a combination of both.

The proposed licence area for the Fifth Renewal Licence is based on the licence area defined in the Final Licence and up to date information derived from:

- computer based hydraulic and geotechnical reviews,
- a site visit to view existing project components and to interview site staff regarding present and future land use, and
- topographic imagery (LiDAR 2009)

## Division 3 – Compliance with Renewal Licence and Regulations

This division of the report provides detailed supporting information that demonstrates the fulfillment of the requirements of the Fourth Renewal Licence, the Short Term Extension Licences (STELs) and Manitoba Regulation 25/88R pursuant to The Water Power Act (the Regulation). Manitoba issued the Fourth Renewal Licence in 1992 and it may contain references that are obsolete.

### Observance of Fourth Renewal Licence Terms

1. The Licensee may divert and use continuously for the development of power at the said Pointe du Bois site all the water of the Winnipeg River which may be flowing at the said site from time to time during this term of this Renewal Licence, subject, however, to the provisions of Section 72 of the Regulations.

#### Observance

Manitoba Hydro has and continues to exercise its rights granted under this term of the licence. Regulation 72 states: “Every licence shall be deemed to have been executed on the express condition that the licensee shall (a) divert, use or store the water authorized to be diverted, used, or stored by him in such a manner as not to interfere, in the opinion of the minister, with the maximum advantageous development of the power and other resources of the river or stream upon which the works are located; (b) conform to and comply with any orders in respect of the control or regulation of the flow of the waters of such river or stream as may be made from time to time by the minister or any person authorized by the minister in that behalf; and (c) at no time cause or permit the surface level of the waters of such river or stream or of any storage reservoir operated by the licensee to be raised or lowered beyond the limits which shall be fixed from time to time by the minister or by a person authorized by the minister in that behalf.”

Manitoba Hydro owns and operates all generating stations on the Manitoba portion of the Winnipeg River. Manitoba Hydro operates the Pointe du Bois GS for reliable power generation as part of the integrated power system while considering social and environmental effects. The Minister or another authorized person has issued no specific orders other than those defined by the Renewal Licence and Short Term Extension Licences. Observance of the maximum operating limit is provided in Term 5 of the Renewal Licence.

2. The undertaking authorized to be maintained and operated by the Licensee under this Fourth Renewal Licence shall consist of the following:

The works at present located at the site which include a reinforced concrete powerhouse with sixteen (16) horizontal shaft hydroelectric turbines, rated at a total capacity of one hundred and five thousand (105,000) horsepower measured at the turbine shaft; adjoining reinforced concrete forebay walls; four (4) concrete spillways; a **sluiceway** with five (5) vertical lift gates; a rockfill dam; a bridge across the forebay channel; and all plant machinery and equipment requisite for the complete development and utilization of the power economically available at the said Pointe du Bois site, together with such other approved works as have been constructed for purposes of the undertaking, all as shown by plans and descriptions thereof filed in the office of the Director at Winnipeg and as described in Section 3 of this Fourth Renewal Licence.

3. The approved plans set out below have been filed by the Licensee in the office of the Director at Winnipeg and constitute part of the undertaking. This Fourth Renewal Licence applies to each part of the undertaking as described in the plans.

Manitoba Water Control and Conservation Branch File Number	Licensee's File Number	Description
21-12-1015	64-A-5	Pointe Du Bois Townsite
21-12-1016	33-E-1	Pointe Du Bois - General Plan or Works
21-12-1017	90-E-1	Map Showing Lands Required for Flooding and Other Purposes for Pointe Du Bois Power Plant
21-12-1018	90-E-2	Map Showing Severance Area Required for Hydro Electric Power Generation - Pointe Du Bois
21-12-1019 (sheet 1)	54-0-66	Pointe Du Bois - 1954 Stadia Survey of Camp - Sheet #1
21-12-1019 (sheet 2)	55-0-39	Pointe Du Bois - 1955 Stadia Survey of Camp - Sheet 112
21-12-3006	24-0-18	Repair to Rock Fill Dam - Pointe Du Bois
21-12-3011	90-E-3	Pointe Du Bois Power House East Wing Dam Detail - Sections
21-12-3012	90-E-4	Pointe Du Bois Power House West Wing Dam Detail - Sections
21-12-3013	90-C-28	Pointe Du Bois Development - Typical Cross Section of Power House
21-12-3014	EX20-D-66	Sectional Plan of Power House
21-12-3015	16-8-6	Sections of Main Spillway
21-12-3016	16-B-7	Sections Through Forebay Wall
21-12-3017	24-0-20	Improvement to Rock Fill Dam

Observance (for Terms 2 and 3.)

Manitoba Hydro acquired the Undertaking in 2002 and it was constructed as described in the plans listed above. From late 2011 to 2015, the **Pointe du Bois Spillway Replacement Project** was constructed which included a new spillway, concrete and earth dams with upgrades to the existing powerhouse. Authorization to proceed with the Pointe du Bois Spillway Replacement Project was received on December 6, 2012. A copy of the letter is included in [Appendix D](#).

4. Lands of the Province which may be entered upon, used or occupied for the maintenance and operation of the undertaking shall be the following:
  - (a) Lands of the Province not covered by water required for main diverting works, powerhouses, etc.

All those portions of Township 15 in Range 14, East of the Principal Meridian, not covered by water, as shown shaded and described under (1a) of the notes on File No. 21-12-1017 (Licensee's No. 90-E-1) filed in the office of the Director at Winnipeg, such lands comprising a total of 144 acres.
  - (b) Lands of the Province covered by water required for main diverting works, powerhouses, etc.

All those portions of Township 15 in Range 14, East of the Principal Meridian, covered by water as shown shaded and described under (1b) of the notes on File No. 21-12-1017 (Licensee's No. 90-E-1) filed in the office of the Director at Winnipeg, such lands comprising a total of 4 acres.
  - (c) Lands of the Province required only to be flooded in connection with the storage or pondage of water

All those portions of Townships 15 and 16 in Ranges 14 and 15, East of the Principal Meridian, required only to be flooded, as shown shaded and described under (1c) of the notes on File No. 21-12-1017 (Licensee's No. 90-E-1) filed in the office of the Director at Winnipeg, such area comprising 2600 acres.
  - (d) Lands of the Province required only for rights-of-way for transmission lines, etc. and substations, distributing stations, terminal stations, etc.

All those portions of Township 15 in Range 14, East of the Principal Meridian, required for rights-of-way as shown and described under (1d) of the notes on File No. 21-12-1017 (Licensee's No. 90-E-1) filed in the office of the Director at Winnipeg, such area comprising 15 acres.

The total area of Lands of the Province entered upon, used or occupied for the maintenance and operation of the undertaking under the preceding four categories comprises 2763 acres.

### Observance

Manitoba Hydro's refinement of the severance line showing the lands required for the project as identified in plans referenced in Term 4 is in progress. This line is legally definable either by Dominion Government Survey System (provincial section grid) or legal survey plans and is being reviewed by Manitoba Environment and Climate Change (MECC). The drawing showing the refined line, if approved, will form part of the Fifth Renewal Licence and is shown on Manitoba drawing WPL-1-00102-PE-07311-0023 (Manitoba Hydro drawing No. 1-00102-PE-07311-0023).

5. The Licensee shall not raise the headwater of the development, as measured at the powerhouse, to an elevation higher than 981.1 feet above mean sea level, Dominion Water Power Survey Datum (with wind effect eliminated). A higher elevation may be created only with written permission by the Director and in accordance with Section 72 of the Regulation.

### Observance

Manitoba Hydro has always provided operations data to the province in relation to this term. Throughout the project's operation Manitoba Hydro submitted hydraulic and energy generation data to the province in raw form for review and evaluation. The format and frequency of the data changed over time from daily to hourly time step, with submission frequency increasing from an annual to a monthly basis.

In 2005 a compliance monitoring program was implemented which required Manitoba Hydro to report compliance to Manitoba on an annual basis. Manitoba Hydro submitted the first Annual Water Level and Flow report to the province in 2007. Using the criteria of any single hourly water level exceeding an elevation of 981.1 ft, annual compliance from 2007 to 2023 has ranged from 99.62% to 100% with an average annual compliance of 99.97% of the time (Table 3). MECC publishes all Annual Water Level and Flow Reports on its website at:

[https://www.gov.mb.ca/sd/about/articles-and-publications/index.html?wg=water\\_power\\_licensing](https://www.gov.mb.ca/sd/about/articles-and-publications/index.html?wg=water_power_licensing).

The maximum elevation of 981.1 ft (299.04 m) as specified in the licence refers to the elevation measured at the inner forebay, Dominion Water Power Survey Datum. Currently all Winnipeg River generating stations are operated in terms of elevations above sea level, GS of C, CGVD 1928, 1929 local adjustment. To convert from the Dominion Water Power

Survey Datum to the GS of C, CGVD 1928, 1929 Local Adjustment a 0.26 foot (0.08 m) correction is added. Therefore the maximum level allowed by licence is 981.36 feet (299.12 m), GS of C, CGVD 1928, 1929 Local Adjustment. Historically the plant has been operated to maintain an outer forebay level of 299.1 m, and people in the area are accustomed to this water regime. This limit on the outer forebay provides sufficient buffer that water levels in the inner forebay remain in compliance with the licence.

The **Pointe du Bois GS Licence Implementation Guide (LIG)** for water levels defines the criteria for compliance with this licence term. The guide shows the location of the water level monitoring station, outlines methodology used to determine water level compliance, and describes reporting procedures that Manitoba Hydro follows. Manitoba Hydro reports compliance with the Pointe du Bois Water Power Act Licence against the hourly inner forebay water level at Pointe du Bois Generating Station.

Manitoba Environment and Climate Change approved the current revision of the Pointe du Bois LIG on January 25, 2023. The letter of approval and LIG are shown in [Appendix E](#).

Table 3: Annual Water Level Compliance Reported in Annual Water Levels and Flows Compliance Report

Year	Hourly Forebay Water Level Readings in a Year	Number of Times Reading Above Licence Limit	Percentage of Readings Below Licence Limit	Number of Reportable Events*
2023	8760	0	100.0	0
2022	8760	0	100.0	0
2021	8760	0	100.0	0
2020	8784	0	100.0	0
2019	8760	0	100.0	0
2018	8760	0	100.0	0
2017	8760	0	100.0	0
2016	8784	33	99.62	0
2015	8760	0	100.0	0
2014	8760	0	100.0	0
2013	8760	0	100.0	0
2012	8784	0	100.0	0
2011	8760	6	99.93	1
2010	8760	0	100.0	0
2009	8760	0	100.0	0
2008	8784	0	100.0	0
2007	8760	0	100.0	0

\*Reportable events were defined as those exceeding the Pointe du Bois Inner Forebay Gauge accuracy of 0.1 ft and requiring provincial notification and explanation of events leading to the exceedance.

A chart of daily forebay water levels from the time Manitoba Hydro took over operation of Pointe du Bois in September 2002 through 2023 is provided in [Figure 12](#).

6. The term of this Fourth Renewal Licence shall be twenty (20) years from and after the 1st day of January, 1992, and this Fourth Renewal Licence shall thereafter be subject to renewal or extension in accordance with the provisions of the laws and Regulations relating thereto and then in force.

#### Observance

This provision requires no observance statement by the licensee.

7. The Licensee shall, during the portion of the term of this Fourth Renewal Licence following the date of issuance thereof, pay annually in advance on the second day of January in each year an annual land rental in the amount of \$9,670.50 or at a rate that may in the future be prescribed in the Regulation, for the use, occupation and flooding of lands of the Province described in Section 4 hereof. In 1996 and every fifth year thereafter, the Minister may, at his sole option, by notice in writing to the Licensee on or before the thirty first day of October in that year, establish a new annual land rental rate to be effective in respect of the following year.

#### Observance

Manitoba adjusted land rental rates over time to reflect more up to date land values with changes coming in effect in 1996 and 2011. The Deputy Minister of Natural Resources notified Manitoba Hydro on November 4, 1996 of a change in billing practice from a calendar year to a fiscal year basis beginning with the 1997-1998 fiscal year. Since acquiring the Pointe du Bois GS in 2002, Manitoba Hydro has made payments on a fiscal year basis in accordance with rates dictated by the Regulation of the day. A copy of the 1996 letter is shown in [Appendix D](#).

8. The Licensee shall pay annually, in arrears, a rental during the term of this Fourth Renewal Licence for the use of water for the development of power, determined in accordance with the principles set out in Section 48 of the Regulation and at a rate as prescribed in Subsection 48(8) of the Regulation in force or as may be amended in the future, and payable at the time and in the manner therein provided.

The Licensee shall, on or before the first day of March in each year following any calendar year for which water rental is payable, submit all data required by the Director for the determination of said water rental. The Director shall thereupon prepare and submit to the Licensee a statement of the water rental due. Payments shall be made within sixty (60) days of submission of the said statement; otherwise the penalties provided in Subsections (4) to (6) inclusive of Section 48 of the Regulation shall apply.

#### Observance

Manitoba Hydro paid annual water rentals in accordance with the Regulation and provincial direction of the time. The Deputy Minister of Natural Resources notified Manitoba Hydro in a February 29, 1996 letter of a change in billing practice from an annual to a monthly basis beginning in April 1996. Since acquiring the Pointe du Bois GS in 2002, Manitoba Hydro generation data has been submitted, and invoices and payments generated on a monthly basis. A copy of the 1996 letter is shown in [Appendix D](#).

9. The Severance Line as defined in Section 1 of the Regulation shall be as shown on File No. 21-12-1018 (Licensee's No. 90-E-2) in the office of the Director.

#### Observance

This provision requires no observance statement by the licensee.

10. The Licensee shall at the request of the Director cause additional surveys to be made and plans prepared by a Manitoba Land Surveyor showing in detail any revisions to; the lands required to be occupied for the purposes of the power development, the lands required for flooding purposes only, the lands required as rights-of-way for transmission lines, roads, railways, drains and other purposes, and the severance line. Such survey shall be limited to include only such areas for the said purposes as the Director may approve.

#### Observance

This provision requires no observance statement by the licensee.

11. This Fourth Renewal Licence is issued upon the express condition that it shall be subject to the provisions of the Act and the Regulation and all amendments thereto as may be made from time to time.

#### Observance

This provision requires no observance statement by the licensee.

## Observance of Fourth Short-term Extension Licence Terms

1. This Fourth Short-term Extension Licence shall apply from January 1, 2025 to and including December 31, 2025.

### Observance

This provision requires no observance statement by the licensee. [Appendix B](#) shows a copy of the Fourth Short-term Extension Licence.

2. On or before April 30, 2025, the Licensee shall pay an annual rental in advance for the use and occupation of lands of the Province described in paragraph 4 (a), (b), (c) and (d) of the Fourth Renewal Licence at the rates set from time to time by Regulation under The Water Power Act.

### Observance

Manitoba Hydro pays land rental rates annually in advance on a fiscal year basis in accordance with the Regulation and Ministerial notification of changes in billing practice. Land rental payments are discussed in the observance of the Fourth Renewal Licence Term 7.

3. The licensee shall pay a monthly rental for the use of water for the development of power at the rates set from time to time by the Water Power Regulation under The Water Power Act and payable at the times and in the manner provided for by the Water Power Regulation under The Water Power Act.

### Observance

Manitoba Hydro pays water rental rates monthly in arrears in accordance with the Regulation and Ministerial notification of changes in billing practice. Water rental payments are discussed in the observance of the Fourth Renewal Licence Term 8.

4. The terms and conditions set out in the Fourth Renewal Licence dated August 17, 1992, apply, as if set out specifically in this Fourth Short-term Extension Licence, except:
  - (a) In article 2 “one hundred and five thousand (105,000) horsepower” shall be “one hundred fourteen thousand (114,000) horsepower”; and
  - (b) where the terms and conditions of the Fourth Renewal Licence are inconsistent with the terms and conditions set out specifically in this document, the terms and conditions set out in this document will apply.

### Observance

This provision requires no observance statement by the licensee.

5. The licensee shall participate in future planning, studies, and other initiatives as instructed by the Minister, in areas impacted by the Undertaking along with affected communities and other stakeholders.

### Observance

Manitoba Hydro will participate in any future planning, studies, and other initiatives as instructed by the Minister.

6. The licensee shall continue submitting an annual report to the Director documenting the licensee's engagement with Indigenous communities on the continued operation of the Undertaking.

### Observance

On June 29, 2022, Manitoba Hydro submitted the first annual **Winnipeg River Indigenous Engagement Report** to Manitoba Environment and Climate Change (MECC) that covered activities from January 1, 2022 to June 15, 2022. Subsequent reports were submitted on June 29, 2023 and June 27, 2024. Information in the report is provided for engagement activities undertaken with respect to all plants on the Winnipeg River, as dialogue with Indigenous communities is not generally specific to an individual generating station. The community specific summaries include Black River First Nation, Brokenhead Ojibway Nation, Hollow Water First Nation, Peguis First Nation, Sagkeeng First Nation, Manitoba Metis Federation, Aghaming Community Council, Manigotagan Community Council and Seymourville Community Council communities. The Winnipeg River Indigenous Engagement Report is published on the MECC website at <https://www.gov.mb.ca/sd/about/articles-and-publications/index.html?wg=ier>

7. The licensee shall comply with The Water Power Act and the Water Power Regulation.

### Observance

Manitoba Hydro believes it has fulfilled its obligation under The Regulation as demonstrated through its observances of pertinent articles as follows.

## Observance of Pertinent Water Power Act Regulation Articles

This section of the report provides supporting information for pertinent articles of the Regulation to demonstrate the fulfillment of the requirements of the Regulation. Manitoba Environment and Climate Change (MECC) has agreed to the selection of those articles of the Regulation that are pertinent to the Renewal Licence application. Each article is shown in italics followed by a statement how the licensee has fulfilled its obligations.

### Renewal or termination

**46 (1)** *Not less than four nor more than six years prior to the termination of any licence, the licensee may apply in writing for an extension of rights held under such licence, and applications may also be filed with the director by any persons looking to the future utilization of the site to which the licence applies. Any application for this purpose including the application for renewal of the licence shall be in such form and contain such statements and information as will satisfy the laws and regulations then in force, and such application for renewal by the licensee shall in every case be accompanied by a suitable undertaking on the part of the licensee that he or she will comply with all the said laws and regulations.*

### Observance

Manitoba Hydro submitted an application for a Fifth Renewal Licence on August 1, 2007. The four to six year window for application as defined by Section 46 (1) spanned January 1, 2006 to January 1, 2008. Manitoba responded on October 15, 2007 acknowledging the application and awaiting further information on MH's intent to modernize the facility. Copies of the letters of application and provincial response are attached in [Appendix A](#).

### Land use rental rates

**48 (3.1)** *A licensee shall pay rent for the use of Crown lands occupied for water power purposes under a licence issued under the Act or a regulation at the annual rate of \$1.80 per acre.*

### Observance

Manitoba Hydro has made annual land rental payments since MH acquired Pointe du Bois in 2002. Manitoba Hydro provides details for observance of Renewal Licence Term 7 in the **Observance of Fourth Renewal Licence Terms** section of this report.

### Water use rental rates

**48 (3.2)** *A licensee shall pay rent for the use of water under a licence issued under the Act or a regulation. (a) in the case of a licensee with a total capacity of 268,096 horsepower or more, at an annual rate equal to the greater of (i) the horsepower capacity of the licensed*

*installation during the year, multiplies by \$8.13, or (ii) the horsepower year output of licensed installation during the year, multiplied by \$20.32; and (b) in the case of a licensee with a total capacity less than 268,096 horsepower, at an annual rate equal to the greater of (i) the horsepower capacity of the licensed installation during the year, multiplied by \$3.96, or (ii) the horsepower year output of the licensed installation during the year, multiplied by \$9.90.*

### Observance

Manitoba Hydro has made annual and monthly water rental payments in accordance with the Renewal Licence Term 8, or at the rate in effect at the time. Manitoba Hydro provides details for observance of Renewal Licence Term 8 in the **Observance of Fourth Renewal Licence Terms** section of this report.

### **Water use rental statement**

**48(3.4)** *A licensee shall, on or before March 1 following each rental period, submit all data required by the director for the determination of the annual water use rental for the rental period. On receipt of the required data, the director shall without delay prepare and provide to the licensee a statement of the water use rent payable by the licensee for the rental period.*

### Observance

Manitoba Hydro has submitted all data required by the director for the determination of the annual water use rental in accordance with Section 48(3.4) throughout the duration of the Renewal Licence. The Deputy Minister of Natural Resources notified Manitoba Hydro on February 29, 1996 of a change in billing practice from an annual to a monthly basis beginning in April 1996. Since acquiring the Pointe du Bois GS in 2002, all data required for the determination of water rentals, has been submitted on a monthly basis. A copy of the 1996 letter is shown in [Appendix D](#).

### **Time of payment of rentals**

**48(3.5)** *The rent for each rental period is payable (a) in the case of land use rental, on January 2 of the rental period; and (b) in the case of water use rental, within 60 days after receipt of the director's rental statement for the year for the rental period.*

### Observance

Requisite payments have been provided as follows:

- (a) Manitoba Hydro paid land use rentals on a fiscal year basis during the term of the Renewal Licence since acquiring Pointe du Bois in 2002. The January 2<sup>nd</sup> due date was observed from 1991 to 1996. A final change to billing practice included payments being

made on a fiscal year beginning with the 1997-1998 fiscal year. Details provided in observance of Renewal Licence Term 7 in the **Observance of Fourth Renewal Licence Terms** section of this report.

- (b) Manitoba Hydro paid water use rentals on a fiscal year basis and within 60 days of the director's rental statement. Details provided in observance of Renewal Licence Term 8 in the **Observance of Fourth Renewal Licence Terms** section of this report.

**48(11)** *Every licensee generating electrical energy, unless excused by the director in writing from compliance with this subsection, shall install an approved curve drawing recording wattmeter and shall preserve and produce for inspection all records made by such wattmeter.*

#### Observance

The Pointe du Bois GS is equipped with meters which continuously measure power at each generator. The meters transmit the power readings to the control room where they are recorded electronically in the station operating records. These records are available to the province.

#### **Care of lands**

**54(1)** *The interim or final licensee shall at all times maintain the lands, works and property held or used by the licensee in respect of his or her licence in a manner satisfactory to the minister, including the maintenance of all flooded or other areas in a sanitary condition and the improvement of the lands from the point of view of landscape architecture, and shall do all in his or her power to protect the lands and the interest of the Crown therein against injury by anyone engaged on or about the works, or by any other person.*

#### Observance

Manitoba Hydro considers safety of its staff and the public at Manitoba Hydro facilities important. As such, Manitoba Hydro implements Manitoba Hydro's **Public Water Safety Around Dams Program** at Pointe du Bois GS. Manitoba Hydro also strives to meet or exceed all provincial regulatory requirements related to workplace health and safety through its regular development and enforcement of safety policies, safe work procedures, communication regarding safety awareness, investigation of incidents and deployment of improvement measures, and employee training.

**54(2)** *Every interim or final licensee shall do everything reasonable within his or her power, both independently and on request of the minister to prevent and suppress fires on or near the lands to be occupied under the licence.*

**54(3)** *For the purpose of limiting the spread of fires or for other reasonable purposes, every interim or final licensee shall clear and keep clear the lands of the province along his or her transmission lines for such width and in such manner as the minister may direct.*

**54(4)** *Every interim or final licensee shall, to the satisfaction of the minister, dispose of all brush, refuse or unused timber on lands of the province resulting from the construction and maintenance of the works, and shall keep the lands covered by his or her licence clear of unnecessary combustible material at all times.*

Observance for Sections 54(2) to 54(4)

Manitoba Hydro maintains site lands and transmission rights-of-way to reduce the risk of fires and implements Manitoba Hydro's **Corporate Fire Prevention and Protection Program** designed to eliminate risks of fire or explosion.

**56** *Every interim or final licensee shall protect all telephone, telegraph and power transmission lines in existence prior to the construction of his or her own lines where crossed by or in close proximity thereto to the satisfaction of the director or competent provincial authority if any, and shall operate, maintain and render safe to the public his or her own transmission, telephone and other lines to the satisfaction of the director or the said authority if any.*

Observance

Manitoba Hydro uses Canadian Standards Association clearance standards in the design of Manitoba Hydro's transmission system for safety of staff and the public. Manitoba Hydro further enhances public safety through regular maintenance, signage, and public safety education campaigns.

**57(1)** *Except as expressly provided in this regulation, the interim or final licensee shall not erect any buildings or structures whatever upon any lands of the province without first submitting plans thereof to the director and securing the director's approval for such building or structure and the site thereof.*

Observance

Manitoba Hydro has notified the province of all significant maintenance and rehabilitation of works which would require Manitoba Hydro to erect temporary structures.

**58** *No roads, trails, telephone lines, buildings or other improvements that are the property of the Crown shall be removed, altered or in any way affected by any interim or final licensee in the construction or operation of his or her works, without the minister's consent in writing having been first obtained, and except upon such conditions as the minister by*

*such writing may impose. The minister, if the minister considers it necessary, may require the licensee to furnish a bond for the satisfactory carrying out of the provisions of this section.*

#### Observance

Since acquiring the Pointe du Bois GS in 2002, there have been no removals, alterations or other effects to Crown-owned improvements.

**59** *Any lands desired by an interim or final licensee for subdivision for townsite or other purposes shall be set out in the application, interim or final licence separately from lands required for other purposes connected with the undertaking, and the promotion of any such townsite shall be subject to the approval of the minister and to such conditions with respect to town planning, landscape architecture and sanitation as the minister may impose.*

#### Observance

The original development included a townsite as listed in the Fourth Renewal licence drawing 21-12-1015. When Manitoba Hydro acquired Pointe du Bois GS from Winnipeg Hydro, some buildings had already been removed. The townsite has since been completely decommissioned and the application for a Fifth Renewal Licence does not allocate lands for a townsite for ongoing use.

**61** *Any authority granted under this regulation for entry upon, or for the use or occupation of lands situated within any forest reserve or park shall, notwithstanding any provisions of this regulation, be subject to the careful observance by the interim or final licensee of the provisions of any regulation relating to forest reserves and parks, and also of any conditions which the minister may, from time to time, impose with respect to the care, upkeep and management of such forest reserve or park.*

#### Observance

Manitoba Hydro complies with all provincial legislation as it relates to forest reserves and parks.

#### **Works, maintenance and operation**

**62(1)** *The licensee shall at all times install and use first class, modern, standard works, plant, and equipment, giving consideration to their requisite suitability of design, safety, strength, durability, efficiency, and all other relevant factors whatsoever, and shall maintain the same in good repair and condition, and shall exercise all due skill and diligence so as to secure satisfactory operation thereof.*

#### Observance

The installed equipment, machinery and structural components at Pointe du Bois GS are designed according to appropriate engineering standards and Manitoba Hydro performs regular maintenance to keep units operating safely and efficiently. It is in Manitoba Hydro's best interest to continuously optimize all components that have a role in producing electricity. When older units cannot be maintained to perform any longer, they are removed from service. In 2016, Units 3, 5, 7, and 11 were decommissioned and removed from the generating station

Manitoba Hydro provides an **Annual Flow and Water Level Compliance Report** to the province which also contains an annual summary of major construction and maintenance activities.

[Appendix C](#) provides a summary of activities from 2008-2023.

**64** *The licensee, before making any material change in any existing works or in their location, shall submit a complete and satisfactory statement and plans of such proposed change to the director, and shall not proceed to carry out the same until such proposed change has been authorized.*

#### Observance

In 2010, a new vehicle access bridge was installed to address dam safety concerns. The project was acknowledged by Manitoba Water Stewardship on August 17, 2009. A copy of the letter included in [Appendix D](#).

In 2015, the **Pointe du Bois Spillway Replacement Project** was completed and involved the replacement of the east gravity dam, spillway bays and rockfill dam with a newer 7-bay spillway as well as main and south earthfill dams. Manitoba Hydro submitted a Request for Authorization for the Spillway Replacement Project on December 9, 2011. It included a WPA Licensing Support Document containing the statement and plans of the proposed change to the existing works. On October 19, 2012 MH submitted a request for Authorization with a revised arrangement (and submitted an Alteration Report to the Province of Manitoba on August 17, 2012). The project was approved by Manitoba Conservation and Water Stewardship on December 6, 2012. A copy of these letters are included in [Appendix D](#).

**65(1)** *The director may require any licensee to install and maintain in good operating condition at such places and in such manner as the director shall approve, accurate meters, measuring weirs, gauges or other approved devices which shall be adequate for determining the amount of water used or power developed in the operation of the works, for*

*determining the flow of the stream or streams from which water is or will be diverted, and for determining the amount of water held in or drawn from storage.*

**65(2)** *The licensee shall keep accurate and satisfactory records of the determinations referred to in subsection (1) and shall from time to time make such returns, supported if necessary by statutory declaration, as the director may require.*

#### Observance for subsections 65(1) and 65(2)

Pointe du Bois GS is equipped with modern instrumentation necessary to adequately report on water usage and energy generation. Manitoba Hydro records water level data, unit discharge, spillway discharge, head, and plant output electronically in the station operating records as a record of station hydraulic activity. Manitoba Hydro maintains records of all gauge readings and submits energy and flow data to the province as part of monthly water rental billing. Manitoba Hydro submits an **Annual Water Level and Flow Compliance Report** to the province which the province uses for licence compliance monitoring.

#### **Change in undertaking**

**68** *If a licensee desires to develop, sell, use or dispose of any greater quantity of power than authorized by his or her licence, whether such increased disposal of power does or does not necessitate any addition to or alteration in the works, or desires to use or dispose of any power in connection with his undertaking in a manner or for a purpose other than as provided in such licence, the licensee must first apply for an interim licence authorizing the construction of the works or for a Final Licence authorizing such additional development, sale, use or disposal or authorizing such use or disposal in such other manner or for such other purpose, as the case may be.*

#### Observance

Manitoba Hydro refurbished Unit 15 in 2004 and Unit 16 in 2006, each with increased capacity of 9,120 HP. These upgrades increased the total capacity of the generating station to 85 MW (114,000 HP). This increase in capacity was authorized in the 2nd Short Term Extension Licence issued March 8, 2017.

#### **Stream regulation and control**

**72** *Every licence shall be deemed to have been executed on the express condition that the licensee shall (a) divert, use, or store the water authorized to be diverted, used, or stored by him in such a manner as not to interfere, in the opinion of the minister, with the maximum advantageous development of the power and other resources of the river or stream upon which the works are located; (b) conform to and comply with any orders in respect of the control or regulation of the flow of the waters of such river or stream as may be made*

*from time to time by the minister or any person authorized by the minister in that behalf; and (c) at no time cause or permit the surface level of the waters of such river or stream or of any storage reservoir operated by the licensee to be raised or lowered beyond the limits which shall be fixed from time to time by the minister or by a person authorized by the minister in that behalf.*

#### Observance for subsections 72(a) to 72(c)

Manitoba Hydro optimizes the usage of the available water. Manitoba Hydro maximizes plant operations by operating when possible at the most efficient head and wicket gate opening based on periodic field tests. Manitoba Hydro also attempts to optimize the use of available stream flows on a system wide basis using computer models.

To date, the province has not ordered operations respecting the control or regulation of flow at the Pointe du Bois GS.

Observance of Renewal Licence Term 5 pertaining to a maximum water level limit is addressed in the **Observance of Fourth Renewal Licence Terms** section of this report.

#### **Accounting**

**78(1)** *Every licensee shall keep a true and detailed account of all expenditures made in each calendar year in respect of the works, lands and properties and such other information as follows: (a) respecting the works: (i) the actual cost thereof, giving separately each class of expenditures as indicated in the definition of "actual cost"; (ii) amounts expended in that year for enlargements and permanent improvements authorized by the minister, and (iii) depreciation in value from any and all causes for that year; (b) respecting lands, tenements and appurtenances not included in clause (a), a statement setting out, in each case, the actual cost thereof in accordance with the provisions of section 36; (c) respecting capital stock: (i) the amount authorized and the number of shares into which it is divided, (ii) the number of shares subscribed for and allotted, the number of shares forfeited to date, and the owners, for the time being, of all outstanding shares, (iii) the amount of calls made on each share, and the total amount received from shareholders in cash on account of stock, (iv) the number of shares, if any, issued as fully paid up shares as consideration for any service rendered or otherwise, specifying in each case for what consideration such shares were issued, and (v) the amounts of dividends declared and paid; (d) respecting bonds and debentures: (i) the amount authorized, and the period of redemption, (ii) the amount sold (face value) and the rate of interest, (iii) the amount realized from sales, (iv) the annual amount set aside as sinking fund to meet bonded indebtedness, and the date of commencement; (e) the indebtedness other than stock and bonds, specifying the nature*

*and amounts, and the rate of interest such indebtedness is bearing; (f) a statement showing the total revenues of the undertaking, specifying the amount received from each and every source; (g) the maintenance and operation expenditures, separating those expenditures which are incurred at or near the works from head office and other expenditures relating to general administration; (h) the names of officers and the classification of employees, with salaries, expenses, or other remuneration paid or allowed; (i) the proposed extensions during ensuing years; (j) if a company, such annual return shall have attached thereto a copy of bylaws of the company, showing all amendments thereto during the year covered by that return; (k) such other data as the minister may require.*

**78(2)** *Every licensee shall file annually with the director on or before March 1 by a return for the year ending December 31 preceding a detailed summary of all information included under clauses 1(a) and (b).*

#### Observance for subsections 78(1) and 78(2)

Manitoba Hydro tracks financial information for the integrated system as a whole except for projects involving a partnership or separate legal entity. Manitoba Hydro does not submit annual financial information specific to Pointe du Bois GS with the director on or before March 1. Instead, Manitoba Hydro publishes an annual corporate report on a fiscal year basis ending on March 31st and makes these annual reports available to all Manitobans. The most current annual report is located at <https://www.hydro.mb.ca/corporate/financial/>.

The annual reports contain financial reviews and consolidated financial statements which reference current system value of property, plant, and equipment. Financial information presented in the annual reports is prepared in accordance with International Financial Reporting Standards (IFRS) and undergoes an independent audit. The independent auditors' report summarized in Manitoba Hydro's 2020-2021 annual report concluded that "the accompanying financial statements present fairly, in all material respects, the consolidated financial position of the Entity as at March 31, 2021, and its consolidated financial performance and its consolidated cash flows for the year then ended in accordance with the International Financial Reporting Standards (IFRS)."

Detailed information pertaining to clauses 1(a) and (b) of Section 78 is available upon request.

#### **Transfers**

**80(1)** *Lands inside the severance line used or occupied for the purposes of the undertaking shall not be alienated, sold, or disposed of by the licensee without either (a) the consent of*

*the minister; or (b) failing such consent, an order of the court; and subject to such terms as the minister or the court may lay down for the protection of the undertaking.*

#### Observance

Manitoba Hydro carries out all licence area amendments with the consent of the Minister or delegate.

#### **Miscellaneous provisions**

**82** *Before executing any licence, the minister shall submit to the prospective licensee a draft of the proposed licence and shall secure from the licensee an acceptance thereof and an undertaking to observe and fulfill all the terms and conditions which under the licence and under this regulation such licensee is required to observe or fulfill, with particular reference to the right of Her Majesty to take over the works, lands and properties held by the licensee in connection with the licence in certain contingencies as this regulation provides. Such acceptance and undertaking shall be made to bind the executors, administrators and assigns, or in the case of a corporation the successors and assigns of the prospective licensee.*

#### Observance

This provision requires no observance statement by the licensee.

**87** *Notwithstanding any rights granted or approval given by any licence, every licensee shall comply fully with the provisions of the Navigable Waters Protection Act (Canada) and any rules and regulations promulgated thereunder, and shall also comply fully with the provisions of any provincial statutes or regulations governing the preservation of the purity of waters or governing logging, forestry, fishing, wildlife or other interests present or future which might be affected by any operations conducted under the licence and shall also observe and carry out any instructions of the minister concerning any of those matters not inconsistent with the said statutes and regulations.*

#### Observance

Manitoba Hydro is committed to and continues to observe the provisions of the Canadian Navigable Waters Act (CNWA) (formerly the Navigable Waters Protection Act (NWPA) and Navigation Protection Act (NPA)) and all provincial statutes and regulations.

Pointe du Bois received NWPA approval on November 19, 1953. Pointe du Bois received NWPA approval for the vehicle access bridge on May 6, 2010 and to alter the Pointe du Bois Spillway on January 30, 2013. A NPA approval for installation of a safety boom and buoys was received on December 9, 2013.

### **Minister may issue short-term extension licences**

**92(1)** *Despite section 46, if (a) a final licence has expired; or (b) the licensee has not applied for an extension of the final licence within the period set out in subsection 46 (1); the minister may, upon written application from the licensee in a form satisfactory to the minister and containing any information required by the minister, issue to the licensee a short-term extension licence for a term of not more than five years from the date issued.*

#### Observance

Manitoba Hydro requested to extend the Fourth Renewal Licence on November 30, 2011 in accordance with Section 92 of the Water Power Regulation, Manitoba Regulation 25/88R of The Water Power Act for five years. Manitoba Water Stewardship issued a Short Term Extension Licence on December 30, 2011. It applied from January 1, 2012 to and including January 1, 2017.

**92(6)** *A short-term extension licence may be renewed for one or more terms, provided that the term of any such renewal does not exceed five years. A renewed short-term extension licence must include the terms and conditions contained in the final licence, except where the minister considers it in the public interest to amend any term or condition, and may include such other terms or conditions as the minister may impose.*

#### Observance

Manitoba Hydro requested another extension to the Fourth Renewal Licence on July 19, 2016. Manitoba Sustainable Development renewed the Pointe du Bois STEL on March 8, 2017 for an additional five years. This Second STEL extension applied from January 1, 2017 to and including January 1, 2022. Manitoba Hydro requested a Third STEL on June 11, 2021. Manitoba Conservation and Climate renewed the Pointe du Bois STEL a third time on December 31, 2021. The Third STEL covered the period from January 1, 2022 to and including January 1, 2025. Manitoba Hydro requested a Fourth STEL on December 21, 2023. Manitoba Environment and Climate Change renewed the Pointe du Bois STEL a fourth time on December 23, 2024. The Fourth STEL covers the period from January 1, 2025 to and including December 31, 2025.

### **Renewal of final licence**

**93(1)** *Where a short-term extension licence is issued under subsection 92(1), or authorized under subsection 92(5), the licensee shall be deemed to have applied for an extended final licence, and section 46 applies with necessary changes.*

#### Observance

This provision requires no observance statement by the licensee.

**93(2)** *The minister may (a) conduct any public hearing that the minister considers necessary in accordance with subsection 46(3); and (b) provide for any consultations with First Nations or aboriginal communities about an extended final licence; during the term of the short-term extension licence.*

Observance

This provision requires no observance statement by the licensee.

## Division 4 – Closure Statement

Manitoba Hydro continues to operate the Pointe du Bois Generating Station in accordance with the Fourth Short Term Extension Licence and the terms of the expired Fourth Renewal Licence for the development of water power at the Pointe du Bois Site on the Winnipeg River. Manitoba Hydro operates and maintains the generating station and associated structures based on the Canadian Dam Association Dam Safety Guidelines. Manitoba Hydro maximizes operations of the Pointe du Bois Generating Station to produce reliable energy for the benefit of all Manitobans. Pointe du Bois GS continues to be integral to the overall system energy supply. Manitoba Hydro submits this report to Manitoba Environment and Climate Change to provide supporting information in the decision to issue a Fifth Renewal Licence under the Water Power Act for another set term as specified by the Minister.

Figures

Figure 1: Geographical Location of Pointe du Bois Generating Station

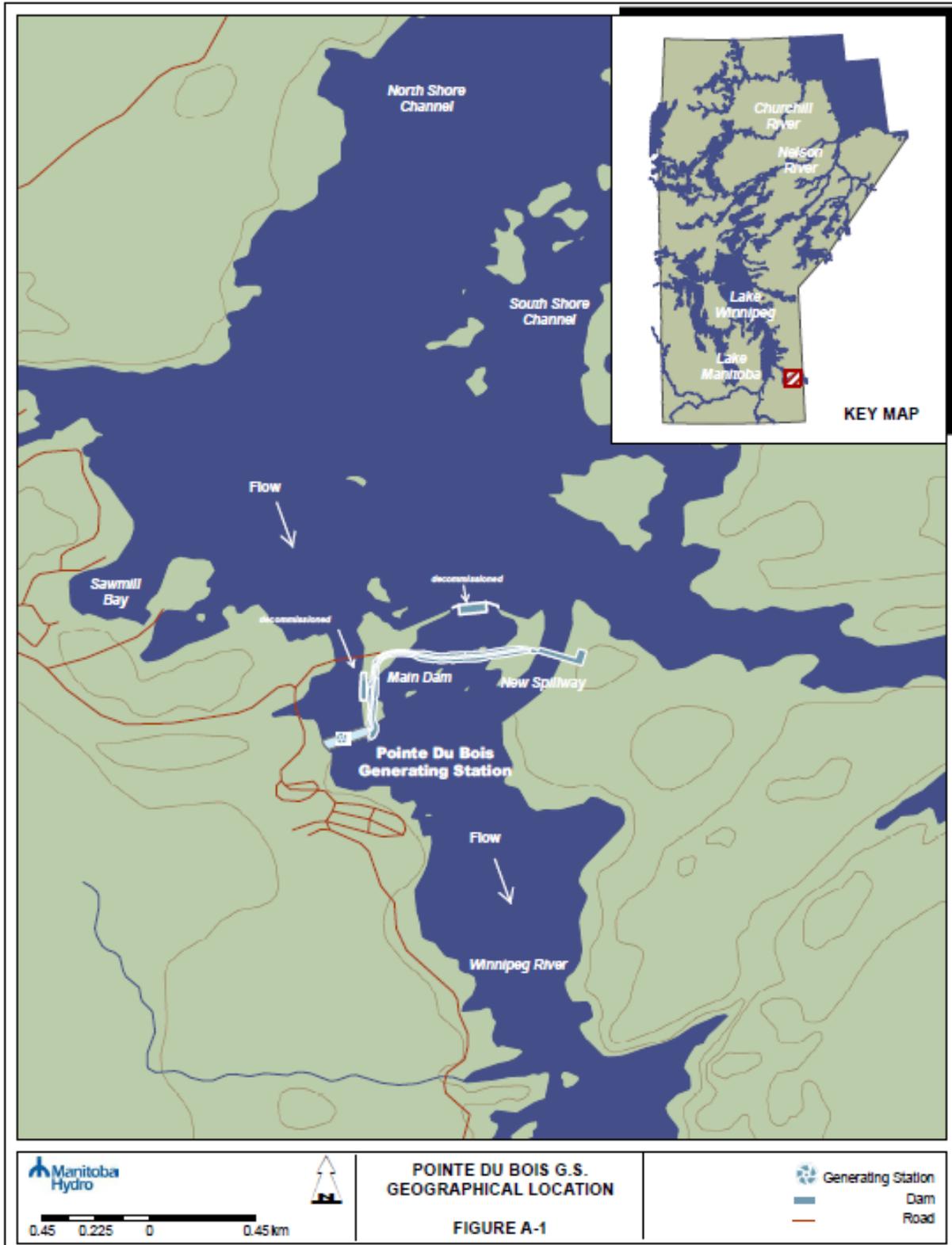


Figure 2: Photograph Aerial View of Pointe du Bois Generating Station

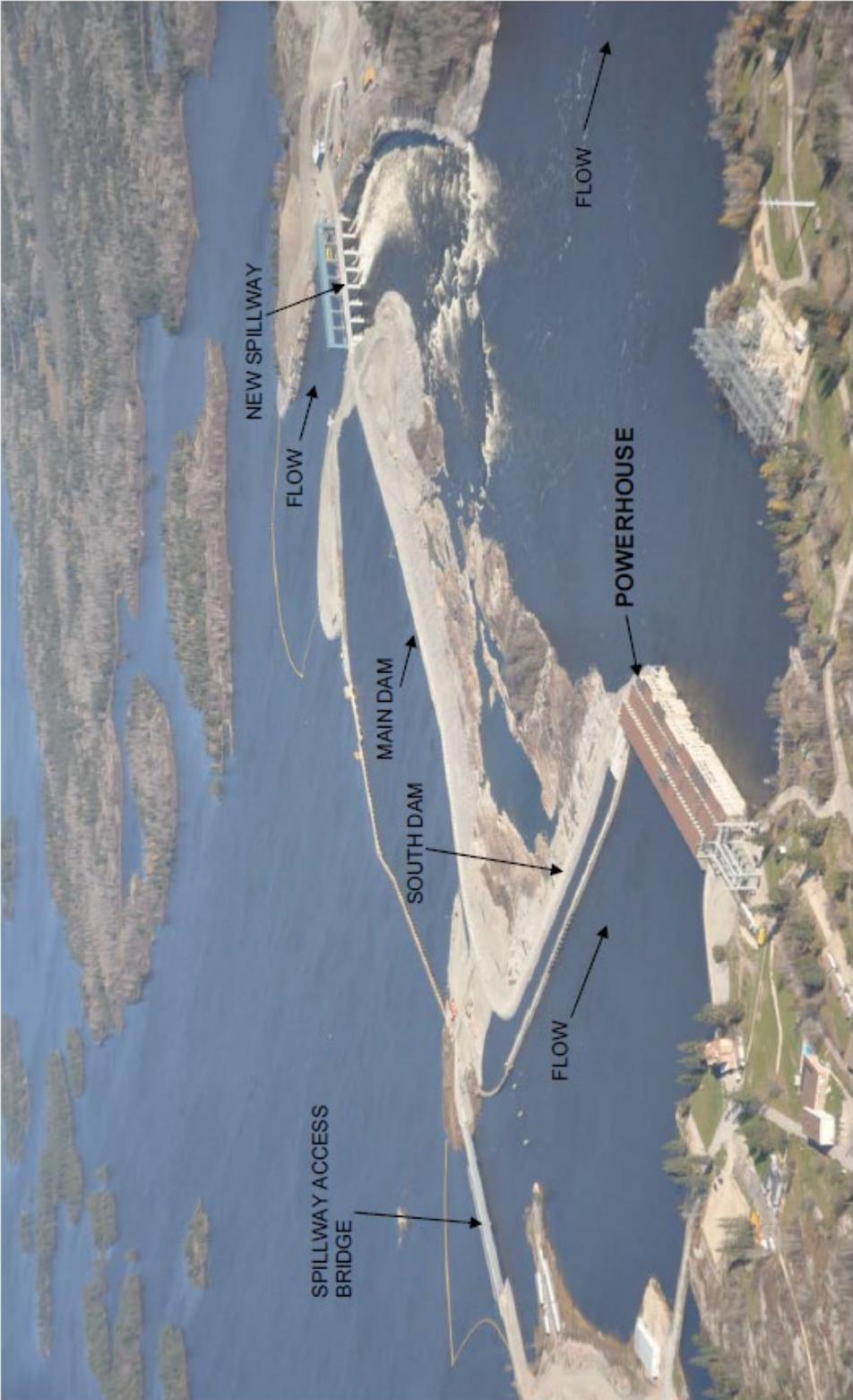




Figure 4: Original Plan of Powerhouse

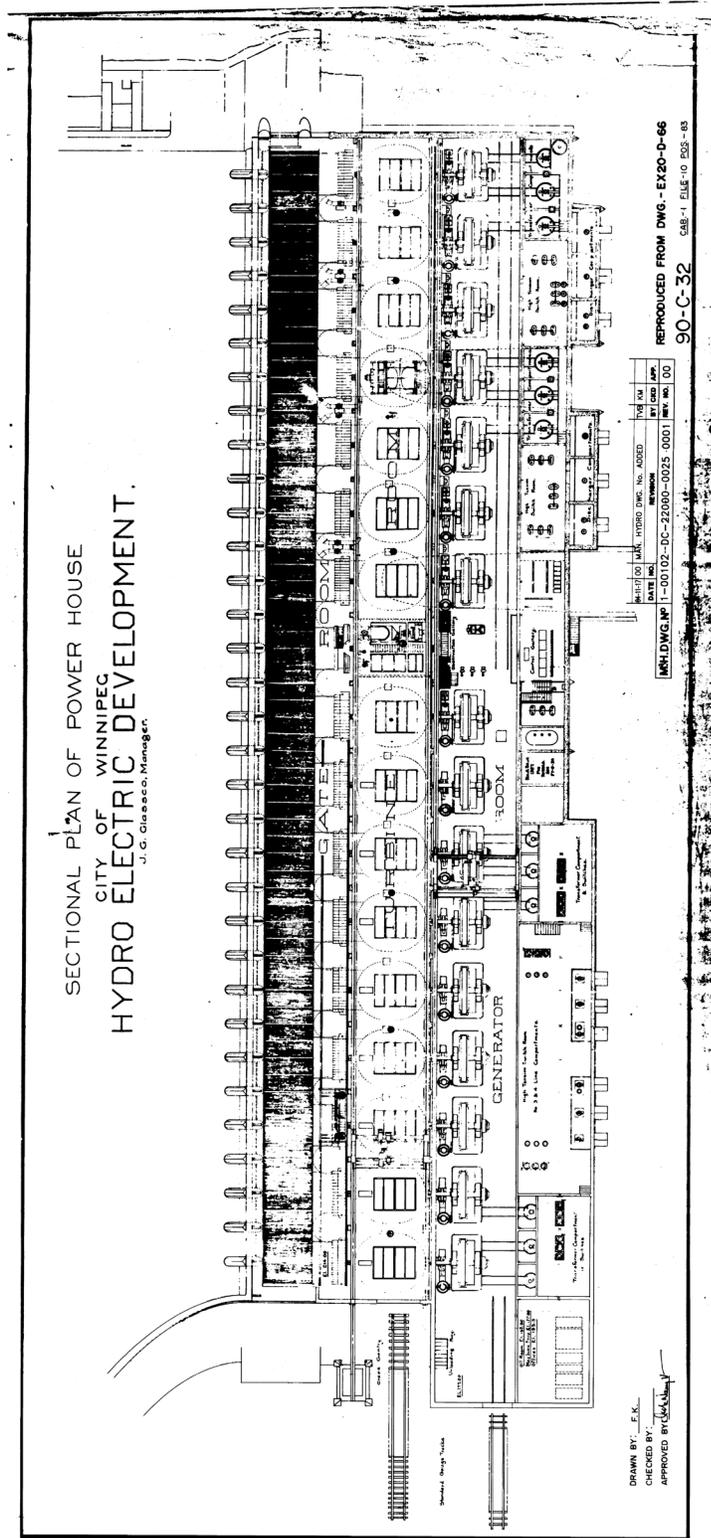


Figure 5: Cross Section of Powerhouse

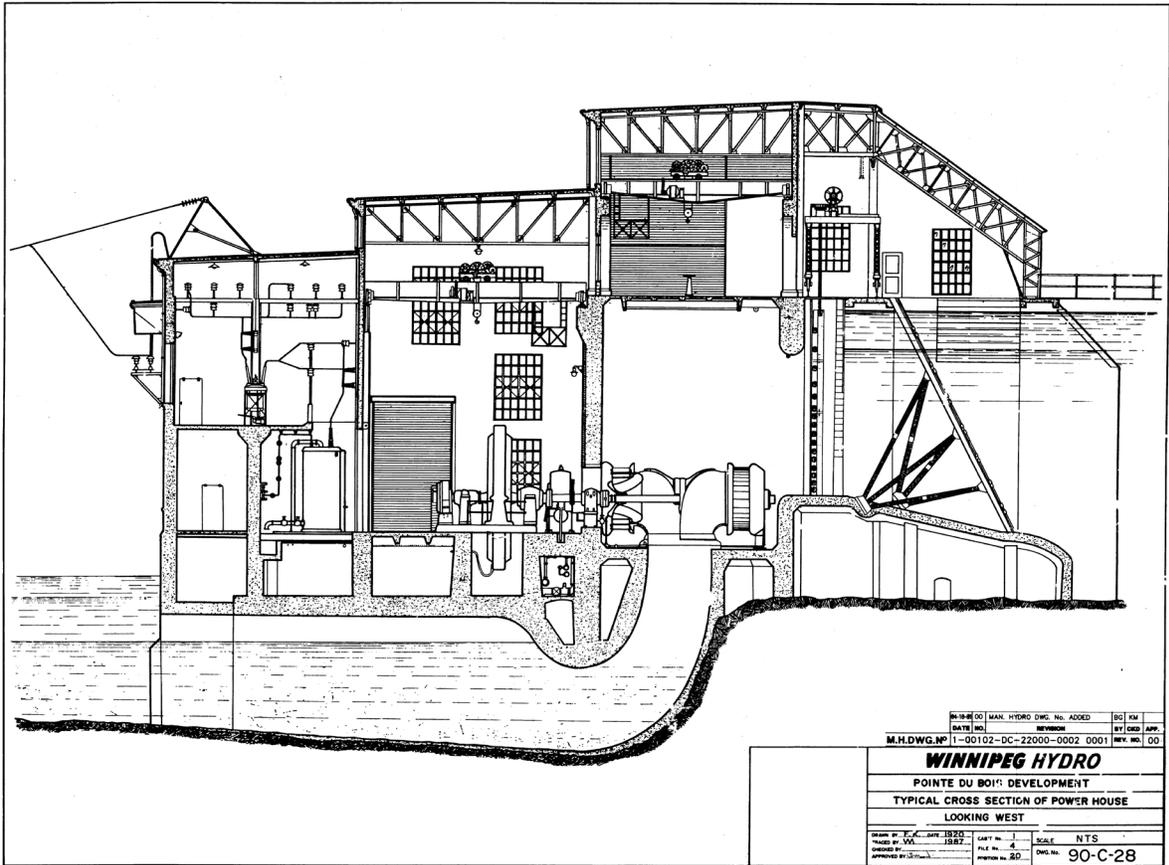


Figure 6: Unit 1 Straflo Unit

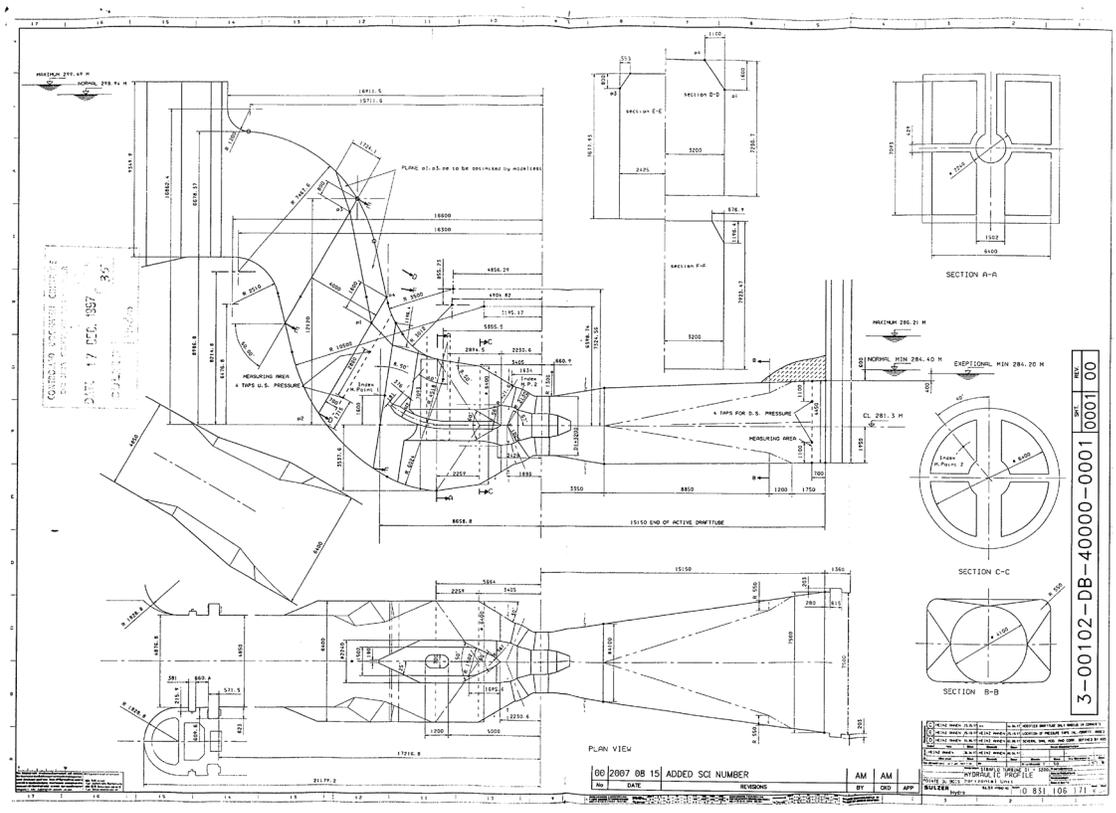


Figure 7: Vehicle Access Bridge

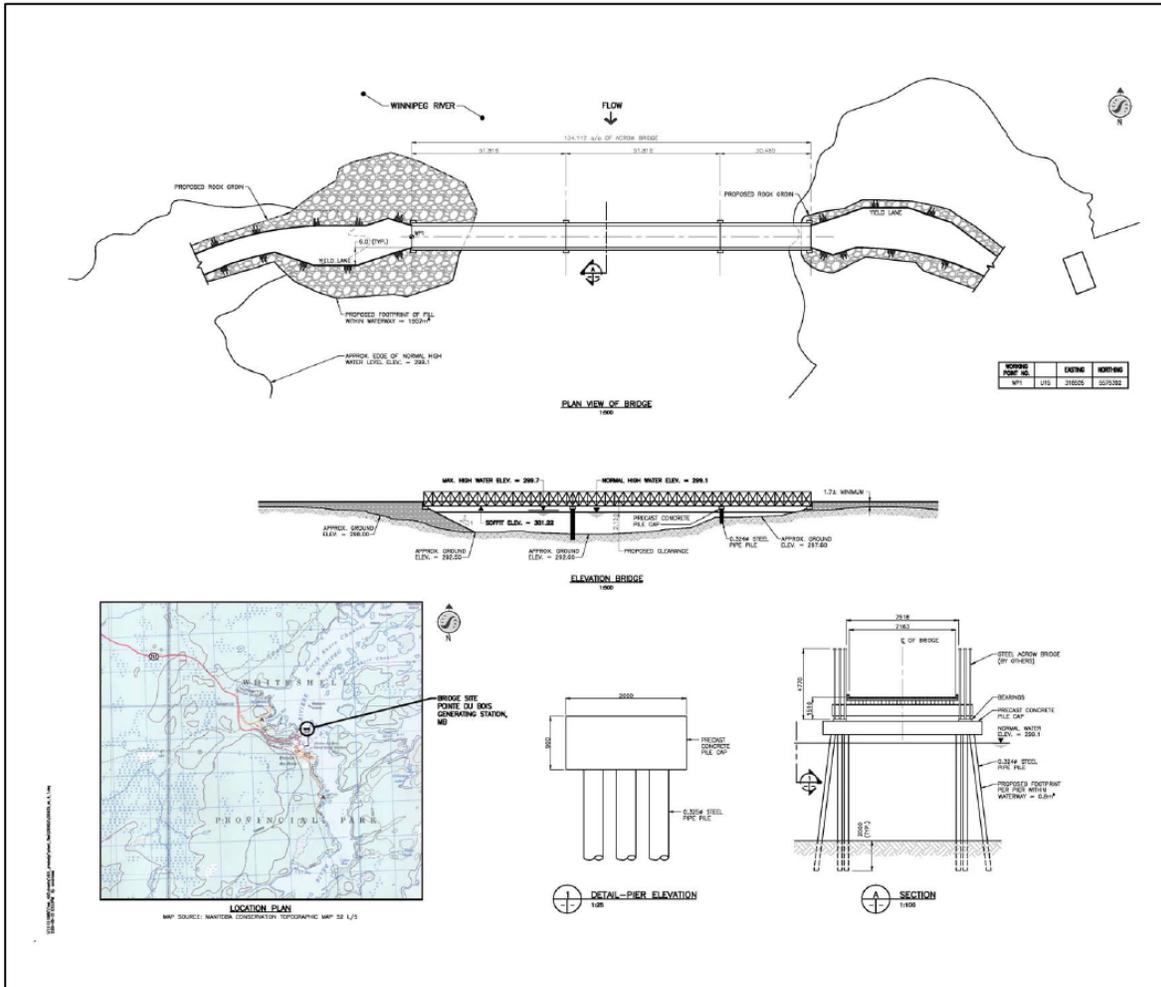


Figure 8: Spillway Replacement Project - Arrangement of New and Existing Structures

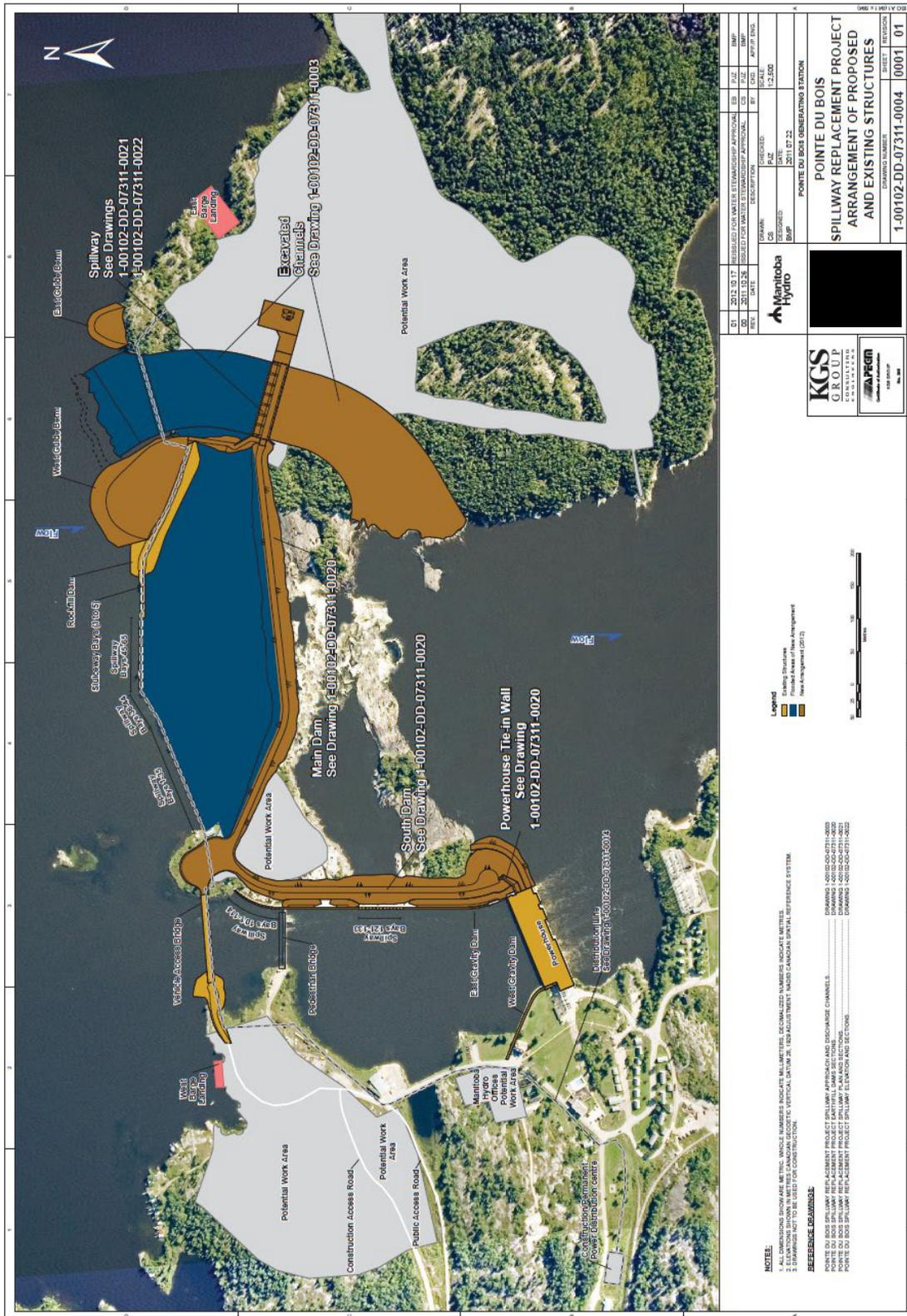


Figure 9: Spillway Replacement Project - Spillway Plan & Sections

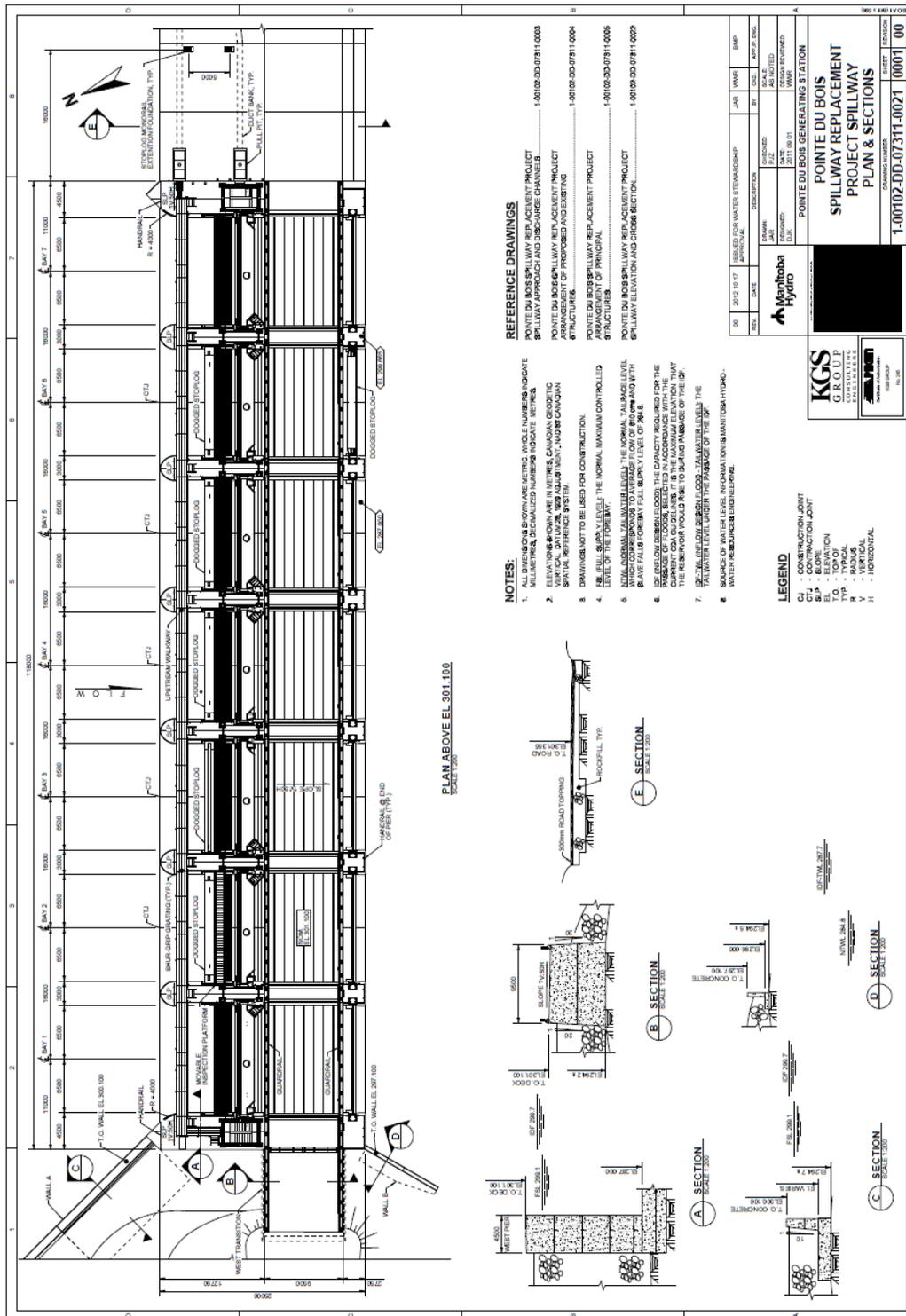


Figure 10: Spillway Replacement Project - Spillway Elevation & Cross Section

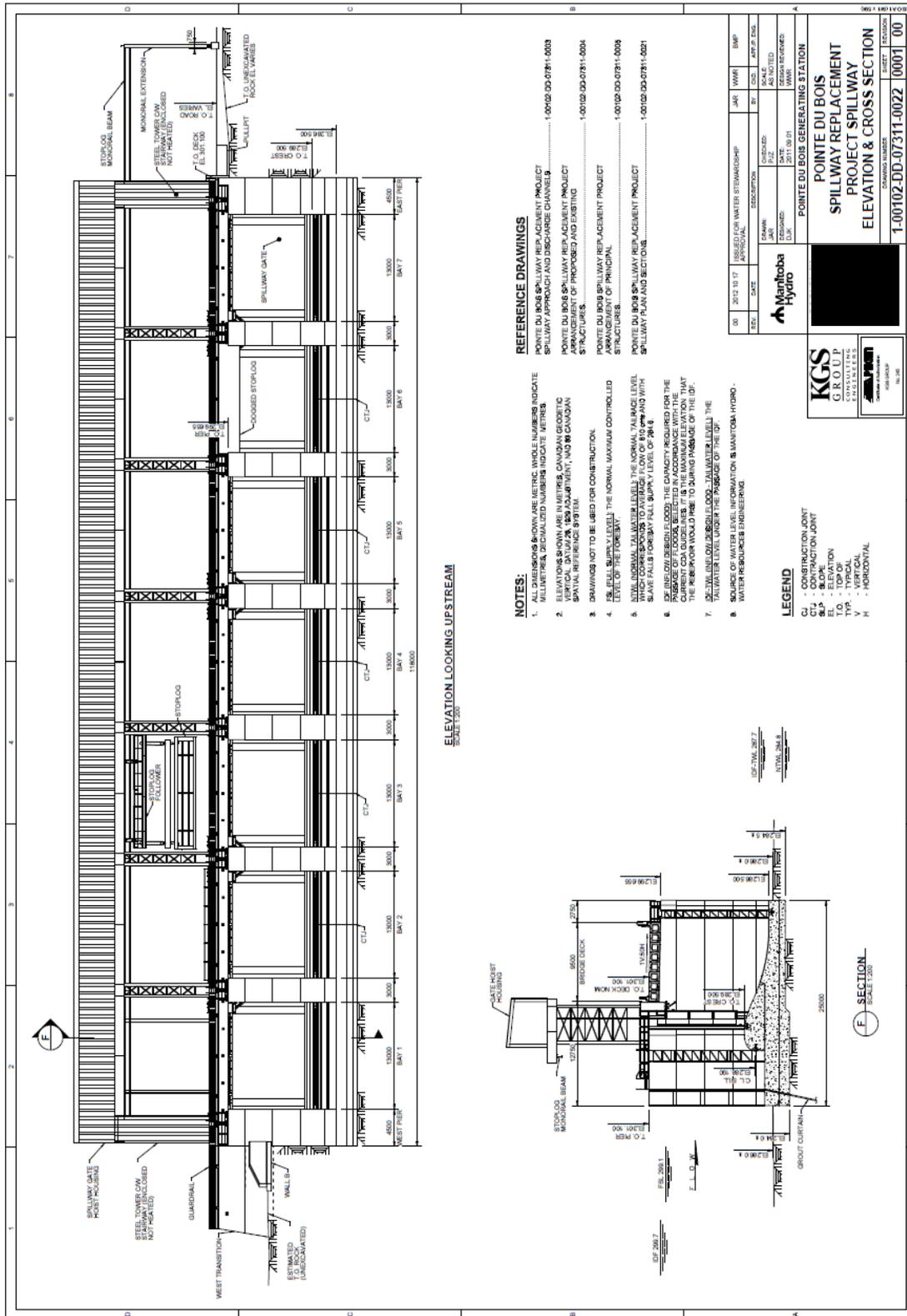


Figure 11: Spillway Replacement Project - Earthfill Dams Sections

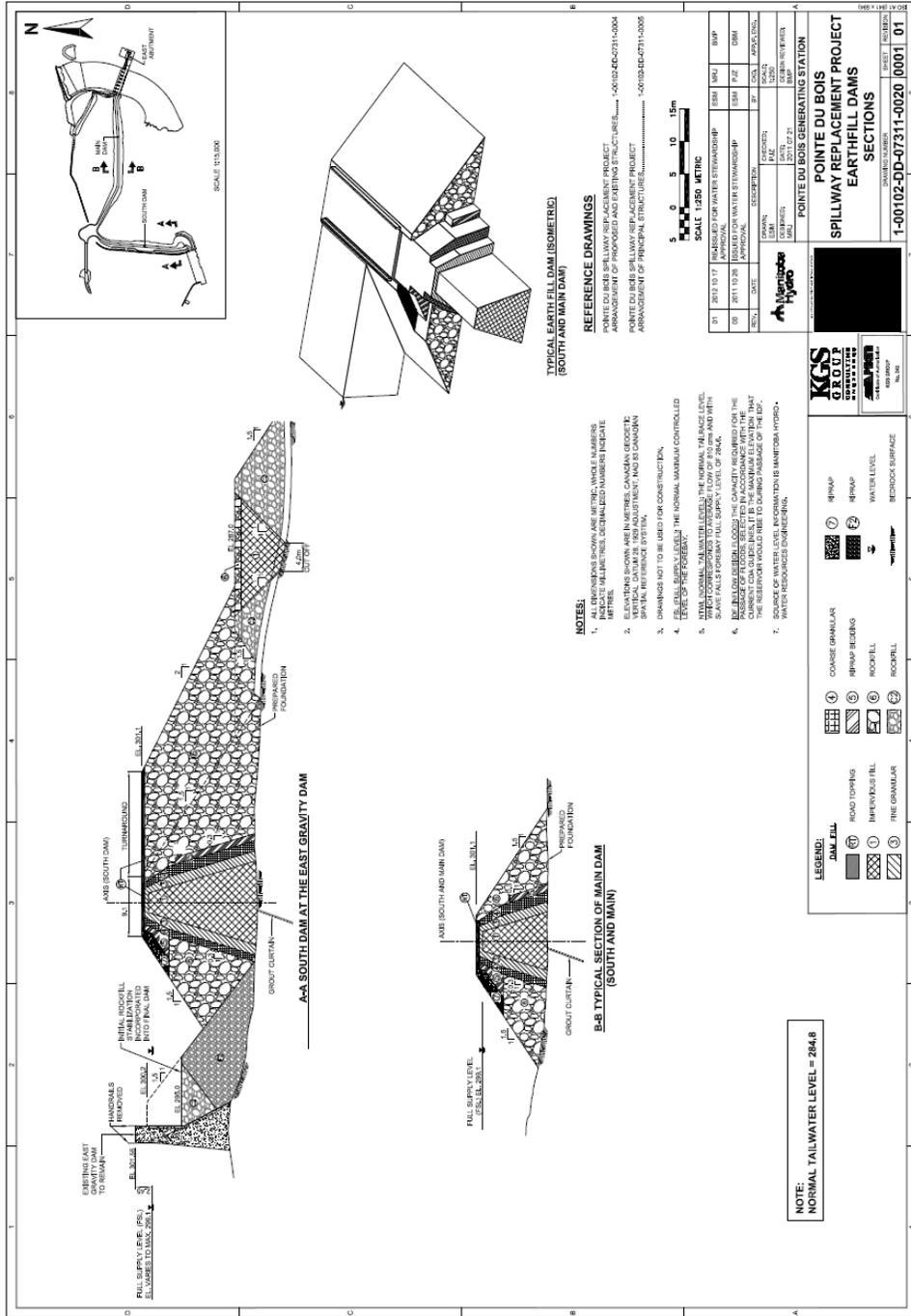


Figure 12: Pointe du Bois GS Historic Water Level Compliance

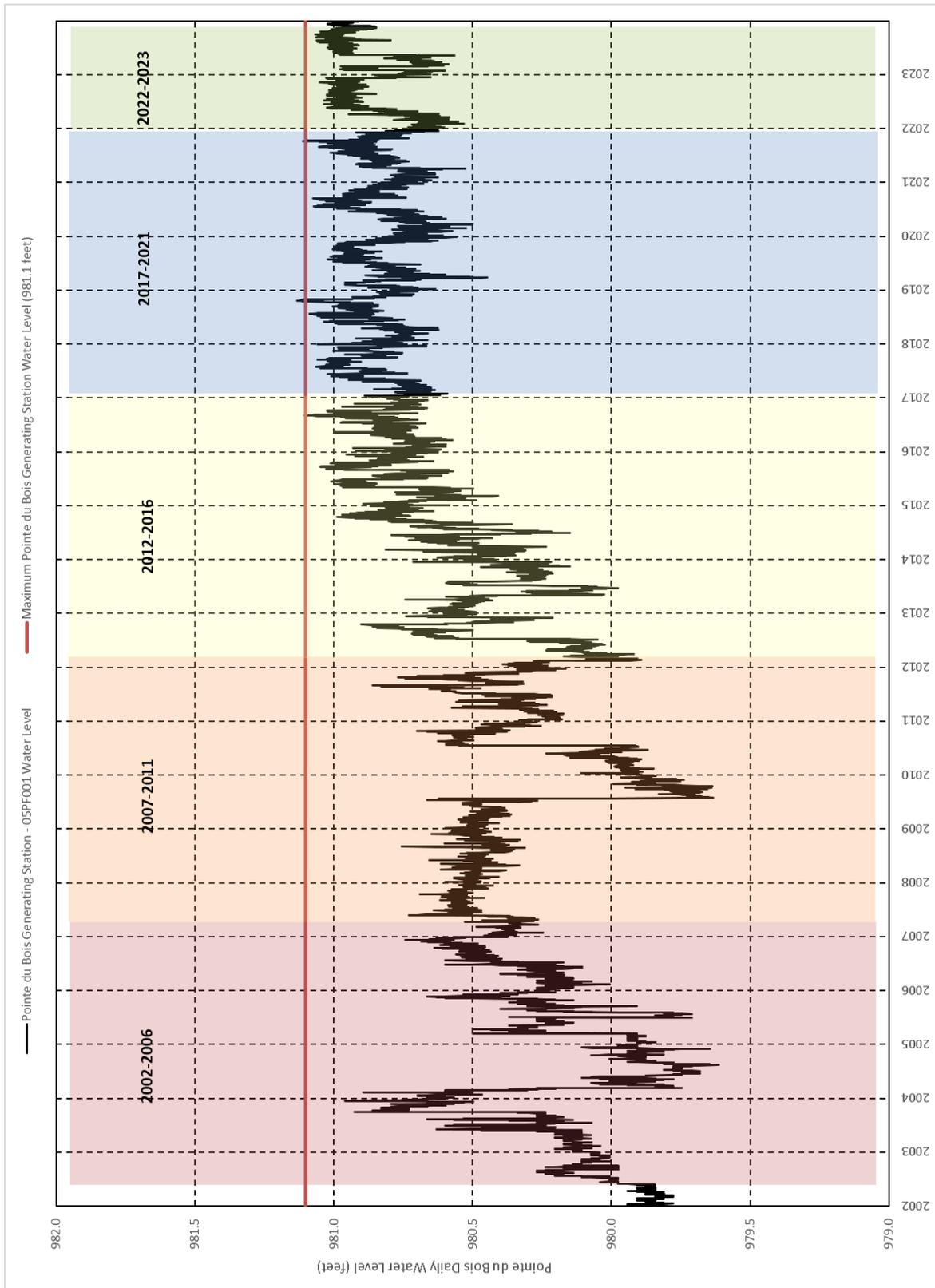


Figure 13: Pointe du Bois GS Historic Power Generation (horsepower)

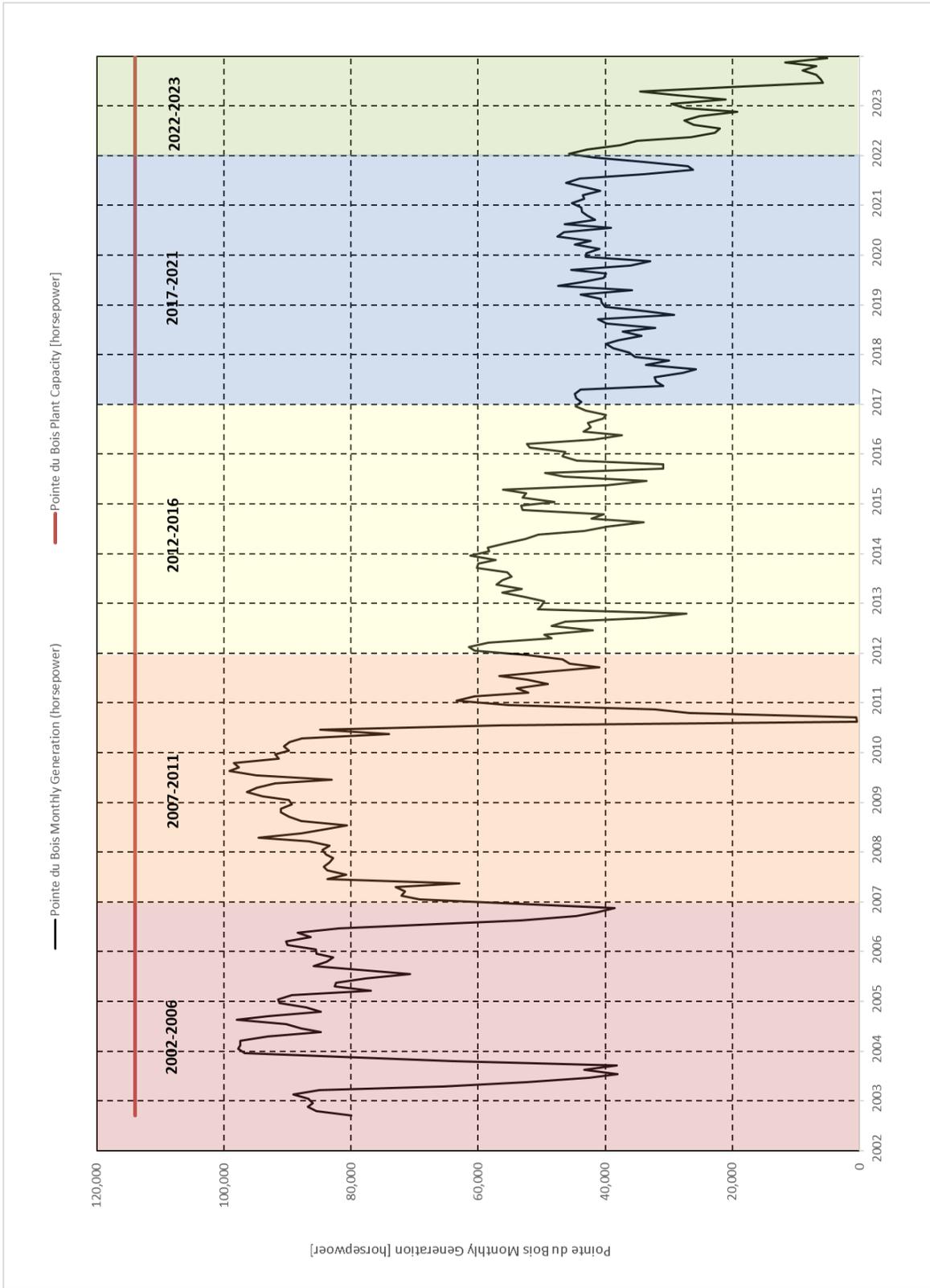


Figure 14: Pointe du Bois Unit No.1 Straflo Nameplate



Figure 15: Pointe du Bois Unit No.2 Nameplate



Figure 16: Pointe du Bois Unit No.3 Nameplate



Figure 17: Pointe du Bois Unit No.4 Nameplate

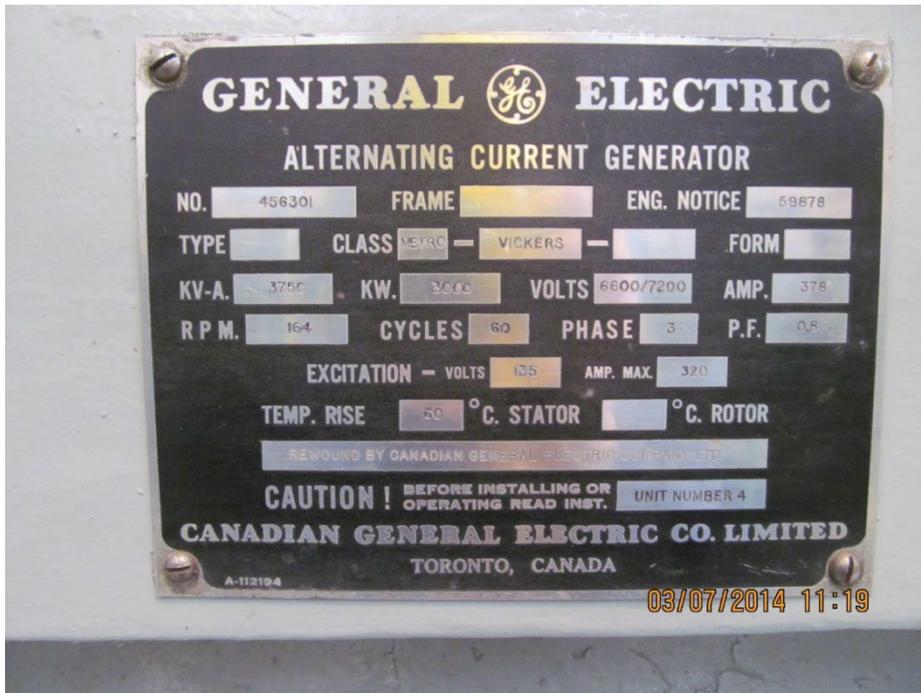


Figure 18: Pointe du Bois Unit No.5 Nameplate



Figure 19: Pointe du Bois Unit No.6 Nameplate



Figure 20: Pointe du Bois Unit No.7 Nameplate



Figure 21: Pointe du Bois Unit No.8 Nameplate

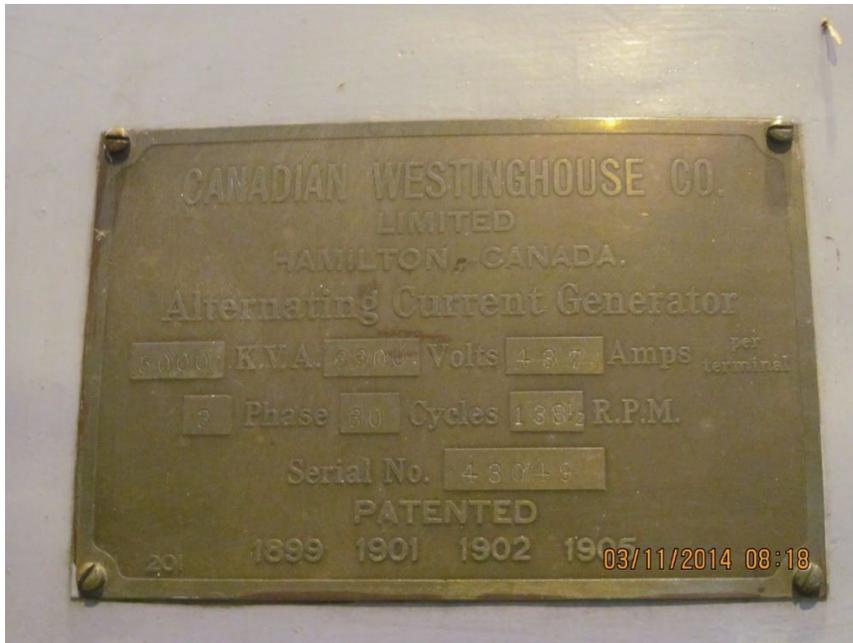


Figure 22: Pointe du Bois Unit No.9 Nameplate



Figure 23: Pointe du Bois Unit No.10 Nameplate



Figure 24: Pointe du Bois Unit No.11 Nameplate



Figure 25: Pointe du Bois Unit No.12 Nameplate



Figure 26: Pointe du Bois Unit No.13 Nameplate

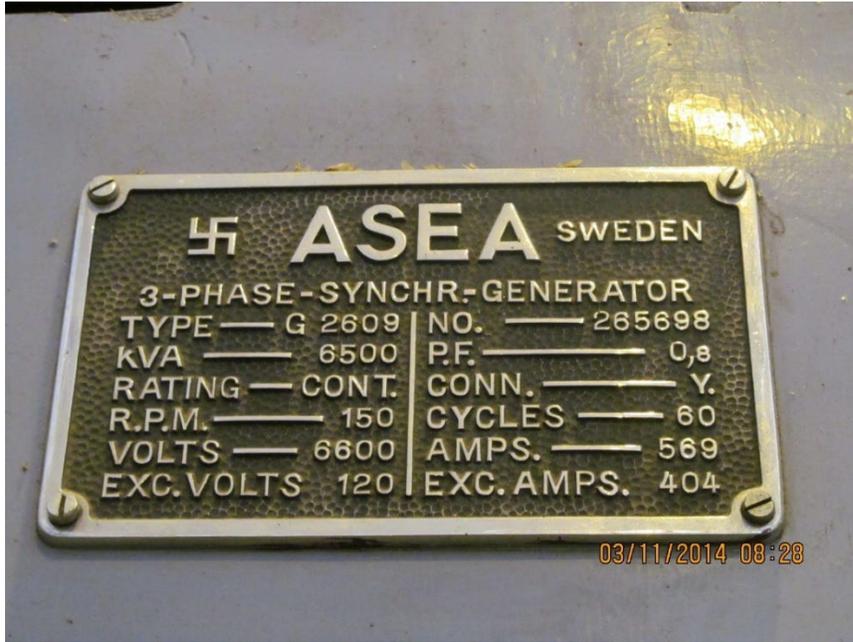


Figure 27: Pointe du Bois Unit No.14 Nameplate

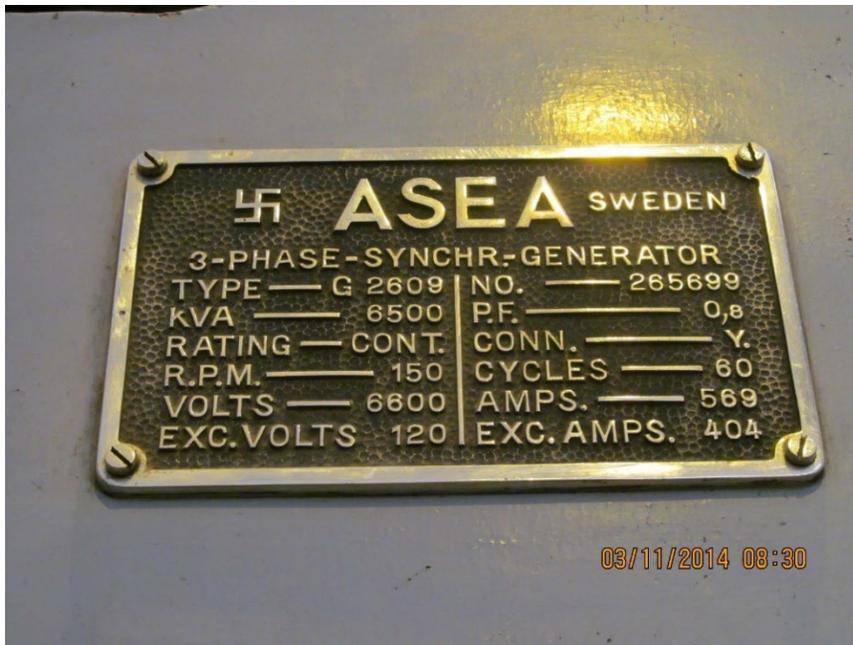


Figure 28: Pointe du Bois Unit No.15 Nameplate



Figure 29: Pointe du Bois Unit No.16 Nameplate



Appendix A: Renewal Licence Request

## Appendix A: Renewal Licence Request (August 1, 2007)



Box 815 • Winnipeg Manitoba Canada • R3C 2P4  
Telephone / N° de téléphone : (204) 474-3018 • Fax / N° de télécopieur : (204) 452-5639  
tmiles@hydro.mb.ca

2007 08 01

Our file: 00102-07311-0001\_00

Mr. S.D. Topping, P. Eng.  
Executive Director  
Regulatory & Operational Services  
Manitoba Water Stewardship  
Box 11 - 200 Saulteaux Crescent  
Winnipeg, MB R3J 3W3

Dear Mr Topping:

**RE: POINTE DU BOIS LICENCE RENEWAL APPLICATION**

Manitoba Hydro hereby applies for the renewal of the Pointe du Bois Final Licence under the provisions set out in subsection 46(1) of *The Water Power Act* and Regulation. This renewal application falls within the specified two year period of "not less than four nor more than six years prior to the termination" of the licence on 2012 01 01. These works are presently authorized under a fourth renewal licence issued to Winnipeg Hydro. Manitoba Hydro acquired this facility from Winnipeg Hydro and transfer of the licence was approved by the Minister on 2002 08 08.

Manitoba Hydro intends to rebuild the facility without requiring additional lands for flooding or other purposes. Once the plans for this redevelopment are finalized an amendment to this application will be forwarded seeking authorization for the works under *The Water Power Act* and Regulation. Our intent is to continue operating the existing facility for as long as possible during the rebuild process.

To our knowledge since the time of acquisition, Manitoba Hydro has met all the requirements of the existing licence and complied with all laws, regulations and special requests from the Director or Minister.

Yours truly,

Original signed by: *Terry Miles*

T.M. Miles, P. Eng.  
Manager  
Hydraulic Operations Department

HJE/BWG/11/0001\_00.doc

Mr. S.D. Topping, P. Eng.  
2007 08 01  
Page 2



statutes, regulations and instructions under Section 87 of The Water Power Regulation and applicable federal statutes and regulations. MWS staff will explore further licensing activities with MH in due course.

MWS considers an interim licence to be the appropriate form of approval for the construction of the new facility. I request MH commence preparations to meet the requirements of The Water Power Regulation pertaining to the application for a licence for water power purposes. My Water Power Licensing staff are available to provide guidance.

Manitoba will undertake consultation with aboriginal communities located in the Pointe du Bois project area. Manitoba will develop an appropriate consultation process and will share this with MH in due course. MWS request MH to continue to keep our licensing staff abreast of MH's activities relating to the renewal of the water power development at the Pointe du Bois site.

Yours truly,



Steven D. Topping, P. Eng.  
Executive Director  
Regulatory and Operational Services

- c: A/ Deputy Minister  
Gord Hannon, Manitoba Justice  
Dave Hicks, Aboriginal and Northern Affairs  
Joe O'Connor, Director, Fisheries Branch  
Kelly-Anne Richmond, A/Manager, Parks and Natural Areas  
Harley Jonasson, Director, Lands Branch  
Tracey Braun, Director, Environmental Assessment and Licensing

Appendix B: Pointe du Bois GS Water Power Act Renewal and Short-term Extension Licences

## Appendix B: Fourth Renewal Licence (August 17, 1992)

PROVINCE OF MANITOBA  
DEPARTMENT OF NATURAL RESOURCES  
WATER RESOURCES BRANCH

---

FOURTH RENEWAL LICENCE FOR THE DEVELOPMENT OF WATER POWER

Pointe du Bois Site, Winnipeg River

Issued in accordance with the provisions of The Water Power Act, being Chapter W60 of the Continuing Consolidation of the Statutes of Manitoba, and of the Regulations in force thereunder to govern the mode of granting and administering provincial water power rights.

---

WHEREAS an Indenture dated the 29th day of January, 1918 was made between His Majesty the King represented therein by the Honourable the Minister of the Interior, of the first part, and the City of Winnipeg in the Province of Manitoba, of the second part (hereinafter called "the Licensee") under The Dominion Water Power Act for a term of twenty (20) years computed from the 1st day of November, 1911; and

WHEREAS by an Indenture dated the 28th day of August, 1933, the Licensee was issued a First Renewal Licence under The (Manitoba) Water Power Act for a further term of twenty (20) years computed from the 1st day of January, 1932; and

WHEREAS the Licensee was issued a Second Renewal Licence under The Water Power Act dated the 27th day of August, 1954 for a further term of twenty (20) years computed from the first day of January, 1952; and

WHEREAS the Licensee was issued a Third Renewal Licence under The Water Power Act dated the 21st day of June, 1972 for a further term of twenty (20) years computed from the first day of January, 1972; and

WHEREAS the term of the Third Renewal Licence expires on the 31st day of December, 1991 and the Licensee has made a written request to the Executive Director of the Water Resources Branch (hereinafter called "the Director") for a fourth renewal of its licence for a further term of twenty (20) years to be computed from the 1st day of January, 1992; and

WHEREAS the Licensee has done all things which in the opinion of the Director are

required to be done prior to the issuance of a Fourth Renewal Licence for the Pointe du Bois development, and

WHEREAS the Licensee has fully complied with the requirements of the Water Power Act and Regulations insofar as it is required for the issue to the said Licensee of this Fourth Renewal Licence; and

WHEREAS the Licensee has on July 7, 1992 duly executed an acceptance of the terms and conditions of this Fourth Renewal Licence and has undertaken to observe and fulfill all the terms and conditions which under this Fourth Renewal Licence and under the Manitoba Water Power Regulation, M.R. 25/88R (hereinafter called "the Regulation") and all amendments thereto as may be made from time to time, the said Licensee is required to observe or fulfill;

NOW THEREFORE, under authority of and subject to the provisions of The Water Power Act, Chapter W60 of the Continuing Consolidation of the Statutes of Manitoba (hereinafter called "the Act") and the Regulation, this Fourth Renewal Licence is issued, authorizing the Licensee:

- (a) to divert, use or store waters of the Winnipeg River at and near the site for the development of electric power and energy from the said waters;
- (b) to occupy or use lands of the Province described in Section 4 in order to generate, transmit, distribute, sell and deliver electric power and energy; and
- (c) to construct, operate and maintain the undertaking described in Section 2 of this Fourth Renewal Licence.

This Fourth Renewal Licence is subject to the provisions of the Act and Regulation and to any other acts or regulations now or hereinafter in force governing the administration of provincial water powers and lands required in connection with the development or use thereof. This Fourth Renewal Licence is also subject to the following terms and conditions:

1. The Licensee may divert and use continuously for the development of power at the site all the water of the Winnipeg River which may be flowing at the site from time to time during the term of this Fourth Renewal Licence. However, in accordance with Section 72 of the Regulation, this Fourth Renewal Licence is issued on the express condition that the Licensee shall:

- (a) divert, use or store the water authorized to be diverted, used, or stored by it in such a manner as not to interfere, in the opinion of the Minister of Natural Resources (hereinafter called "the Minister"), with the maximum advantageous development of the power and other resources of the river or stream upon which the works are located;
  - (b) conform to and comply with any orders in respect of the control or regulation of the flow of the waters of such river or stream as may be made from time to time by the Minister or any person authorized by the Minister in that regard; and
  - (c) at no time cause or permit the surface level of the waters of such river or stream or of any storage reservoir operated by the Licensee to be raised or lowered beyond the limits which shall be fixed from time to time by the Minister or by a person authorized by the Minister in that regard.
2. The undertaking authorized to be maintained and operated by the Licensee under this Fourth Renewal Licence shall consist of the following:

The works at present located at the site which include a reinforced concrete powerhouse with sixteen (16) horizontal shaft hydroelectric turbines, rated at a total capacity of one hundred and five thousand (105,000) horsepower measured at the turbine shaft; adjoining reinforced concrete forebay walls; four (4) concrete spillways; a sluiceway with five (5) vertical lift gates; a rockfill dam; a bridge across the forebay channel; and all plant machinery and equipment requisite for the complete development and utilization of the power economically available at the said Pointe du Bois site, together with such other approved works as have been constructed for purposes of the undertaking, all as shown by plans and descriptions thereof filed in the office of the Director at Winnipeg and as described in Section 3 of this Fourth Renewal Licence.

3. The approved plans set out below have been filed by the Licensee in the office of the Director at Winnipeg and constitute part of the undertaking. This Fourth Renewal Licence applies to each part of the undertaking as described in the plans.

Manitoba Water Resources Branch File Number	Licensee's Drawing Number	Description
21-12-1015	64-A-5	Pointe Du Bois Townsite
21-12-1016	33-E-1	Pointe Du Bois - General Plan of Works
21-12-1017	90-E-1	Map Showing Lands Required for Flooding and Other Purposes for Pointe Du Bois Power Plant
21-12-1018	90-E-2	Map Showing Severance Area Required for Hydro Electric Power Generation - Pointe Du Bois
21-12-1019 (sheet 1)	54-D-66	Pointe Du Bois - 1954 Stadia Survey of Camp - Sheet #1
21-12-1019 (sheet 2)	55-D-39	Pointe Du Bois - 1955 Stadia Survey of Camp - Sheet #2
21-12-3006	24-D-18	Repair to Rock Fill Dam - Pointe Du Bois
21-12-3011	90-E-3	Pointe Du Bois Power House East Wing Dam Detail - Sections
21-12-3012	90-E-4	Pointe Du Bois Power House West Wing Dam Detail - Sections
21-12-3013	90-C-28	Pointe Du Bois Development - Typical Cross Section of Power House
21-12-3014	EX20-D-66	Sectional Plan of Power House
21-12-3015	16-B-6	Sections of Main Spillway
21-12-3016	16-B-7	Sections Through Forebay Wall
21-12-3017	24-D-20	Improvement to Rock Fill Dam

4. Lands of the Province which may be entered upon, used or occupied for the maintenance and operation of the undertaking shall be the following:

- (a) Lands of the Province not covered by water required for main diverting works, powerhouses, etc.

All those portions of Township 15 in Range 14, East of the Principal Meridian, not covered by water, as shown shaded and described under (1a) of the notes on File No. 21-12-1017 (Licensee's No. 90-E-1) filed in the office of the Director at Winnipeg, such lands comprising a total of 144 acres.

- (b) Lands of the Province covered by water required for main diverting works, powerhouses, etc.

All those portions of Township 15 in Range 14, East of the Principal Meridian, covered by water as shown shaded and described under (1b) of the notes on File No. 21-12-1017 (Licensee's No. 90-E-1) filed in the office of the Director at Winnipeg, such lands comprising a total of 4 acres.

(c) **Lands of the Province required only to be flooded in connection with the storage or pondage of water**

All those portions of Townships 15 and 16 in Ranges 14 and 15, East of the Principal Meridian, required only to be flooded, as shown shaded and described under (1c) of the notes on File No. 21-12-1017 (Licensee's No. 90-E-1) filed in the office of the Director at Winnipeg, such area comprising 2600 acres.

(d) **Lands of the Province required only for rights-of-way for transmission lines, etc. and substations, distributing stations, terminal stations, etc.**

All those portions of Township 15 in Range 14, East of the Principal Meridian, required for rights-of-way as shown and described under (1d) of the notes on File No. 21-12-1017 (Licensee's No. 90-E-1) filed in the office of the Director at Winnipeg, such area comprising 15 acres.

The total area of Lands of the Province entered upon, used or occupied for the maintenance and operation of the undertaking under the preceding four categories comprises 2763 acres.

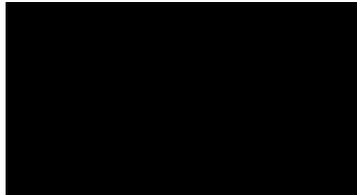
5. The Licensee shall not raise the headwater of the development, as measured at the powerhouse, to an elevation higher than 981.1 feet above mean sea level, Dominion Water Power Survey Datum (with wind effect eliminated). A higher elevation may be created only with written permission by the Director and in accordance with Section 72 of the Regulation.
6. The term of this Fourth Renewal Licence shall be twenty (20) years from and after the 1st day of January, 1992, and this Fourth Renewal Licence shall thereafter be subject to renewal or extension in accordance with the provisions of the laws and Regulations relating thereto and then in force.
7. The Licensee shall, during the portion of the term of this Fourth Renewal Licence following the date of issuance thereof, pay annually in advance on the second day of January in each year an annual land rental in the amount of \$9,670.50 or at a rate that may in the future be prescribed in the Regulation, for the use, occupation and flooding of lands of the Province described in Section 4 hereof. In 1996 and every fifth year thereafter, the Minister may, at his sole option, by notice in writing to the Licensee on or before the thirty first day of October in that year, establish a new annual land rental rate to be effective in respect of the following year.
8. The Licensee shall pay annually, in arrears, a rental during the term of this Fourth Renewal Licence for the use of water for the development of power, determined in accordance with the principles set out in Section 48 of the Regulation and at a rate as prescribed in Subsection 48(B)

of the Regulation in force or as may be amended in the future, and payable at the time and in the manner therein provided.

The Licensee shall, on or before the first day of March in each year following any calendar year for which water rental is payable, submit all data required by the Director for the determination of said water rental. The Director shall thereupon prepare and submit to the Licensee a statement of the water rental due. Payments shall be made within sixty (60) days of submission of the said statement; otherwise the penalties provided in Subsections (4) to (6) inclusive of Section 48 of the Regulation shall apply.

9. The Severance Line as defined in Section 1 of the Regulation shall be as shown on File No. 21-12-1018 (Licensee's No. 90-E-2) in the office of the Director.
  
10. The Licensee shall at the request of the Director cause additional surveys to be made and plans prepared by a Manitoba Land Surveyor showing in detail any revisions to; the lands required to be occupied for the purposes of the power development, the lands required for flooding purposes only, the lands required as rights-of-way for transmission lines, roads, railways, drains and other purposes, and the severance line. Such survey shall be limited to include only such areas for the said purposes as the Director may approve.
  
11. This Fourth Renewal Licence is issued upon the express condition that it shall be subject to the provisions of the Act and the Regulation and all amendments thereto as may be made from time to time.

Issued at Winnipeg this 17<sup>th</sup> day of August 1992 <sup>RS</sup> by the Honourable Minister of Natural Resources.



## Appendix B: Short Term Extension Licence (December 30, 2011)

### PROVINCE OF MANITOBA MANITOBA WATER STEWARDSHIP

#### SHORT-TERM EXTENSION LICENCE FOR THE DEVELOPMENT OF WATER POWER Pointe du Bois Site, Winnipeg River

Issued to Manitoba Hydro ("the Licensee"), being duly incorporated by an Act of the Legislature of the Province of Manitoba whose head office address is at 360 Portage Avenue, Winnipeg, Manitoba, R3C 2P4, issued in accordance with The Water Power Act (C.C.S.M. c. W60), and the Water Power Regulation (M.R. 25/88R).

#### WHEREAS:

- A. The Licensee is the holder of a Fourth Renewal Licence for the Pointe du Bois site, a licence under *The Water Power Act*, dated the 17<sup>th</sup> day of August, 1992, as a renewal of previous final licences, which applies for a term of twenty (20) years from the 1<sup>st</sup> day of January, 1992;
- B. The Licensee by letter dated August 1, 2007, signed by T.M. Miles, Manager, Hydraulic Operations Department, applied for a renewal of the Pointe du Bois Fourth Renewal Licence;
- C. The Fourth Renewal Licence has not yet been renewed, and the Licensee has applied by letter dated November 30, 2011 signed by W. V. Penner, Manager, Hydraulic Operations Department, to the Executive Director of Regulatory and Operational Services of Manitoba Water Stewardship for a Short-term Extension Licence for the Pointe du Bois development in accordance with section 92 of the Water Power Regulation and has done all things which, in the opinion of the Executive Director, are required to be done by the Licensee prior to the issuance of a Short-term Extension Licence;
- D. It is contemplated that decisions will be made about the application for a Fifth Renewal licence during the term of this Short-term Extension Licence;
- E. The Licensee has duly executed an acceptance of the terms and conditions of this Short-term Extension Licence and has undertaken to observe and fulfill all the terms and conditions which the Licensee is required to observe and fulfill under this Short-term Extension Licence:

This Short-term Extension Licence is issued, granting to the Licensee:

- (a) the right to impound divert and use water of the Winnipeg River at and near the Pointe du Bois Site;
- (b) the right to develop electric power and energy from the said waters;
- (c) the right to generate, transmit, distribute, sell and deliver the said electric power and energy and for that purpose to use and occupy the lands of the Province described in the Fourth Renewal Licence; and

- (d) the right to operate and maintain the undertaking, the location and description of which is shown upon the record plans numbered and filed in the office of the Executive Director at Winnipeg.

on the same terms and conditions as set out in the Fourth Renewal Licence dated the 17<sup>th</sup> day of August, 1992, subject to the following specific terms and conditions:

1. This Short-term Extension Licence shall apply from January 1, 2012 to and including January 1, 2017.
2. On the second day of January in each year the Licensee shall pay an annual rental in advance for the use and occupation of lands of the Province described in paragraph 4 (a), (b), (c) and (d) of the Fourth Renewal Licence at the rates set from time to time by Regulation under *The Water Power Act*.<sup>1</sup>
3. The Licensee shall pay an annual rental for the use of water for the development of power at the rates set from time to time by Regulation under *The Water Power Act* and payable at the times and in the manner provided for by Regulation under *The Water Power Act*.<sup>2</sup>
4. The terms and conditions set out in the Fourth Renewal Licence apply as if set out specifically in this Short-term Extension Licences, except:
  - (a) in paragraph 2 "one hundred and five thousand (105,000) horsepower<sup>3</sup>" shall be "one hundred twelve thousand (112,000) horsepower<sup>4</sup>"; and
  - (b) where the terms and conditions of the Fourth Renewal Licence are inconsistent with the terms and conditions set out specifically in this document, the terms and conditions set out in this document will apply.
5. The Licensee shall comply with *The Water Power Act* and the Water Power Regulation.

ISSUED at Winnipeg this 30<sup>th</sup> day of December, 2011.



Minister of Water Stewardship

<sup>1</sup> Rental rates for land use are currently set out in s. 48(3.1) of the Water Power Regulation.

<sup>2</sup> Rental rates for the use of water for the development of power are currently set out in s. 48(3.2) of the Water Power Regulation.

<sup>3</sup> 105,000 horsepower equals approximately 78.3 megawatts

<sup>4</sup> 112,000 horsepower equals approximately 83.5 megawatts

## Appendix B: Second Short Term Extension Licence (March 8, 2017)

### PROVINCE OF MANITOBA MANITOBA SUSTAINABLE DEVELOPMENT

#### SECOND SHORT-TERM EXTENSION LICENCE FOR THE DEVELOPMENT OF WATER POWER Pointe du Bois Site, Winnipeg River

Issued to Manitoba Hydro ("the Licensee"), being duly incorporated by an Act of the Legislature of the Province of Manitoba whose head office address is at 360 Portage Avenue, Winnipeg, Manitoba, R3C 2P4, issued in accordance with The Water Power Act (C.C.S.M. c. W60), and the Water Power Regulation (M.R. 25/88R).

#### WHEREAS:

- A. The Licensee is the holder of a Short-term Extension Licence for the Pointe du Bois site, a licence under *The Water Power Act*, dated the 30<sup>th</sup> day of December, 2011 for a term of five (5) years from the 1<sup>st</sup> day of January, 2012, as the extension of the previously issued Fourth Renewal Licence (a copy of the Fourth Renewal Licence is attached as Schedule "A" of this Second Short-term Extension Licence);
- B. The Licensee by letter dated August 1, 2007, signed by T.M. Miles, Manager, Hydraulic Operations Department, applied for a renewal of the Pointe du Bois Fourth Renewal Licence;
- C. The Fourth Renewal Licence has not yet been renewed, and the Licensee has applied by letter dated July 19, 2016 signed by W. V. Penner, Manager, Hydraulic Operations Department, to the Manager of Water Use Licensing Section of Manitoba Sustainable Development for a Short-term Extension Licence Renewal for the Pointe du Bois development in accordance with section 92(6) of the Water Power Regulation and has done all things which, in the opinion of the Director, are required to be done by the Licensee prior to the issuance of this Second Short-term Extension Licence;
- D. It is contemplated that decisions will be made about the application for a Fifth Renewal licence during the term of this Second Short-term Extension Licence;
- E. The Licensee has duly executed an acceptance of the terms and conditions of this Renewal Short-term Extension Licence and has undertaken to observe and fulfill all the terms and conditions which the Licensee is required to observe and fulfill under this Second Short-term Extension Licence:

This Second Short-term Extension Licence is issued, granting to the Licensee:

- (a) the right to impound divert and use water of the Winnipeg River at and near the Pointe du Bois Site;
- (b) the right to develop electric power and energy from the said waters;
- (c) the right to generate, transmit, distribute, sell and deliver the said electric power and energy and for that purpose to use and occupy the lands of the Province

described in the Fourth Renewal Licence; and

- (d) the right to operate and maintain the undertaking, the location and description of which is shown upon the record plans numbered and filed in the office of the Director at Winnipeg.

on the same terms and conditions as set out in the Fourth Renewal Licence dated the 17<sup>th</sup> day of August, 1992, subject to the following specific terms and conditions:

1. This Second Short-term Extension Licence Renewal shall apply from January 1, 2017 to and including January 1, 2022.
2. On the second day of January in each year the Licensee shall pay an annual rental in advance for the use and occupation of lands of the Province described in paragraph 4 (a), (b), (c) and (d) of the Fourth Renewal Licence at the rates set from time to time by Regulation under *The Water Power Act*.<sup>1</sup>
3. The Licensee shall pay an annual rental for the use of water for the development of power at the rates set from time to time by Regulation under *The Water Power Act* and payable at the times and in the manner provided for by Regulation under *The Water Power Act*.<sup>2</sup>
4. The terms and conditions set out in the Fourth Renewal Licence apply as if set out specifically in this Second Short-term Extension Licences, except:
  - (a) in paragraph 2 "one hundred and five thousand (105,000) horsepower<sup>3</sup>" shall be "one hundred fourteen thousand (114,000) horsepower<sup>4</sup>"; and
  - (b) where the terms and conditions of the Fourth Renewal Licence are inconsistent with the terms and conditions set out specifically in this document, the terms and conditions set out in this document will apply.
5. The Licensee shall comply with *The Water Power Act* and the Water Power Regulation.

ISSUED at Winnipeg this

8<sup>th</sup> day of March 2017.

\_\_\_\_\_  
 Minister of Sustainable Development

<sup>1</sup> Rental rates for land use are currently set out in s. 48(3.1) of the Water Power Regulation.

<sup>2</sup> Rental rates for the use of water for the development of power are currently set out in s. 48(3.2) of the Water Power Regulation.

<sup>3</sup> 105,000 horsepower equals approximately 78.3 megawatts

<sup>4</sup> 114,000 horsepower equals approximately 85.0 megawatts

## Appendix B: Third Short Term Extension Licence (December 31, 2021)



W. V. Penner, P.Eng.  
Manager  
Waterway Approvals and Monitoring Department  
Manitoba Hydro  
360 Portage Avenue  
P.O. Box 815, Stn. Main  
Winnipeg, Manitoba R3C 2P4  
[wvpenner@hydro.mb.ca](mailto:wvpenner@hydro.mb.ca)

December 31, 2021

Dear Wes Penner:

Thank you for your request dated June 11, 2021, for a Third Short-term Extension Licence for the Pointe du Bois Generating Station under the provisions of The Water Power Act and Regulation.

Enclosed is the Third Short-term Extension Licence for the Pointe du Bois Generating Station (the "Undertaking").

The Third Short-term Extension Licence applies for a three-year period. Within this period Manitoba Hydro will submit the licence supporting documentation for the completion of the application for the Fifth Renewal Licence for the Undertaking. Indigenous consultation with respect of the Fifth Renewal Licence for the Undertaking will also be undertaken with affected Indigenous communities during this period.

Manitoba Conservation and Climate is in the process of preparing Water Power Act renewal licence guidelines and the Fifth Renewal Licence for the Undertaking will be subject to these guidelines.

In addition to the enclosed Licence requirements, and in accordance with Section 87 of The Water Power Regulation, the Licensee is instructed to:

- Participate in any future large area planning initiative that may include studies in areas impacted by hydroelectric development, along with affected communities and with other stakeholders.
- Participate in the future licence modernization processes directed by the Province of Manitoba. The Province intends to evaluate the Water Power Act and Regulation to determine what amendments may be required for modernization.

The request to reduce the installed capacity, as indicated in Section 2 of the Fourth Renewal Licence, to 89,200 horsepower with the removal of Units 3, 5, 7, and 11, will be considered following application of the Fifth Renewal Licence.

If you have any questions regarding this matter, please contact Laura Pyles, Acting Director, Environmental Approvals Branch, at [Laura.Pyles@gov.mb.ca](mailto:Laura.Pyles@gov.mb.ca) or 204-227-3124.

Sincerely,



Jan Forster  
Deputy Minister

Enclosures

- c. Honourable Sarah Guillemard  
Laura Pyles

**SHORT TERM EXTENSION LICENCE**

Issue Date / Date de délivrance : December 31, 2021

In accordance with The Water Power Act (C.C.S.M. c. W60) /  
Conformément à la LOI sur l'énergie hydraulique (c. W60 de la C.P.L.M.)

Pursuant to Section 92 of the Water Power Regulation (M.R. 25/88R) of The Water Power Act (C.C.S.M. c. W60) /  
Conformément à l'article 92 du Règlement sur l'énergie hydraulique (R.M. 25/88R) de la Loi sur l'énergie hydraulique (c. W60 de la C.P.L.M.)

**THIS THIRD SHORT TERM EXTENSION LICENCE IS ISSUED TO:**

**MANITOBA HYDRO, ("the Licensee")**

being duly incorporated by an Act of the Legislature of the Province of Manitoba  
whose head office address is at 360 Portage Avenue,  
Winnipeg, Manitoba, R3C 2P4,

for the development of water power at Pointe du Bois site on Winnipeg River.

WHEREAS:

- A. The Licensee is the holder of a Second Short-term Extension Licence for the Pointe du Bois site, a licence issued under The Water Power Act, dated the 8<sup>th</sup> day of March, 2017 for a term of five (5) years from the 1<sup>st</sup> day of January, 2017, as the extension of the previously issued Fourth Renewal Licence (a copy of the Fourth Renewal Licence is attached as Schedule "A" of this Third Short-term Extension Licence);
- B. The Licensee by letter dated August 1, 2007, signed by T.M. Miles, Manager, Hydraulic Operations Department, applied for a renewal of the Pointe du Bois Fourth Renewal Licence;
- C. The Fifth Renewal Licence has not yet been renewed, and the Licensee has applied by letter dated June 11, 2021 signed by W. V. Penner, Manager, Waterway Approvals and Monitoring Department, to the Director of Environmental Approvals Branch of Manitoba, Conservation and Climate for a Short-term Extension Licence Renewal for the Pointe du Bois development in accordance with section 92(6) of the Water Power Regulation and has done all things which, in the opinion of the Director, are required to be done by the Licensee prior to the issuance of this Third Short-term Extension Licence;

- D. It is contemplated that decisions will be made about the application for a Fifth Renewal Licence during the term of this Third Short-term Extension Licence;
- E. The Licensee has duly executed an acceptance of the terms and conditions of this Renewal Short-term Extension Licence and has undertaken to observe and fulfill all the terms and conditions which the Licensee is required to observe and fulfill under this Third Short-term Extension Licence:

This Third Short-term Extension Licence is issued, granting to the Licensee:

- (a) the right to impound, divert, and use water of the Winnipeg River at and near the Pointe du Bois Site;
- (b) the right to develop electric power and energy from the said waters;
- (c) the right to generate, transmit, distribute, sell, and deliver the said electric power and energy and for that purpose to use and occupy the lands of the Province described in the Fourth Renewal Licence; and
- (d) the right to operate and maintain the undertaking, the location and description of which is shown upon the record plans numbered and filed in the office of the Director at Winnipeg (the "Undertaking").

on the same terms and conditions as set out in the Fourth Renewal Licence dated the 17<sup>th</sup> day of August, 1992, subject to the following specific terms and conditions:

1. This Third Short-term Extension Licence shall apply from January 1, 2022 to and including January 1, 2025.
2. On the second day of January in each year the Licensee shall pay an annual rental in advance for the use and occupation of lands of the Province described in paragraph 4 (a), (b), (c) and (d) of the Fourth Renewal Licence at the rates set from time to time by Regulation under The Water Power Act.<sup>1</sup>
3. The Licensee shall pay an annual rental for the use of water for the development of power at the rates set from time to time by Regulation under The Water Power Act and payable at the times and in the manner provided for by Regulation under The Water Power Act.<sup>2</sup>
4. The terms and conditions set out in the Fourth Renewal Licence apply as if set out specifically in this Third Short-term Extension Licence, except:
  - (a) in Section 2 "one hundred and five thousand (105,000) horsepower<sup>3</sup>" shall be "one hundred fourteen thousand (114,000) horsepower<sup>4</sup>"; and
  - (b) where the terms and conditions of the Fourth Renewal Licence are inconsistent with the terms and conditions set out specifically in this document, the terms and conditions set out in this document will apply.

---

<sup>1</sup> Rental rates for land use are currently set out in s. 48(3.1) of the Water Power Regulation.

<sup>2</sup> Rental rates for the use of water for the development of power are currently set out in s. 48(3.2) of the Water Power Regulation.

<sup>3</sup> 105,000 horsepower equals approximately 78.3 megawatts

<sup>4</sup> 114,000 horsepower equals approximately 85.0 megawatts

5. The Licensee shall participate in future planning, studies, and other initiatives as instructed by the Minister, in areas impacted by the Undertaking along with affected communities and other stakeholders.
6. The Licensee shall within 6 months of the issuance of this Third Short-term Extension Licence, and annually thereafter submit a report to the Director documenting the Licensee's engagement with Indigenous communities on the continued operation of the Undertaking.
7. The Licensee shall comply with The Water Power Act and the Water Power Regulation.



---

Jan Forster  
Deputy Minister of Conservation and Climate

Appendix B: Fourth Short Term Extension Licence (December 23, 2024)

**Manitoba**   
Environment and Climate Change  
Deputy Minister  
Room 350 Legislative Building  
Winnipeg Manitoba R3C 0V8  
T 204-945-3785  
[dmecc@manitoba.ca](mailto:dmecc@manitoba.ca)

W V Penner P Eng.  
Manager Manitoba Hydro  
360 Portage Ave (16)  
Box 815 Stn. Main  
Winnipeg MB R3C 0G8  
[wvpenner@hydro.mb.ca](mailto:wvpenner@hydro.mb.ca)

December 23, 2024

Dear Wes Penner:

Thank you for your request dated December 21, 2023, for the renewal of the Third Short-Term Extension Licence (STEL) for the Pointe du Bois Generating Station under the provisions of The Water Power Act and the Water Power Regulation.

Enclosed is the Fourth STEL for the Pointe du Bois Generating Station. This STEL applies for a twelve month period, and expires on December 31, 2025. Crown-Indigenous consultation with respect of the Fifth Renewal Licence for this generating station will also be undertaken with affected Indigenous communities during this period.

In addition to the enclosed Licence requirements, and in accordance with Section 87 of the Water Power Regulation, the Licensee is instructed to:

- Participate in the future licence modernization processes as directed by Manitoba.

If you have any questions regarding this matter, please contact Agnes Wittmann, Director, Environmental Approvals Branch, at [EABdirector@gov.mb.ca](mailto:EABdirector@gov.mb.ca) or 204-945-8321.

Sincerely,

  
Jocelyn Baker  
Deputy Minister

Enclosures

- c. Honourable Tracy Schmidt  
Agnes Wittmann

## SHORT-TERM EXTENSION LICENCE

Issue Date / Date de délivrance: December 23, 2024

In accordance with The Water Power Act (C.C.S.M. c. W60) /  
Conformément à la LOI sur l'énergie hydraulique (c. W60 de la C.P.L.M.)

Pursuant to Section 92 of the Water Power Regulation (M.R. 25/88R) of The Water Power Act (C.C.S.M. c. W60) /  
Conformément à l'article 92 du Règlement sur l'énergie hydraulique (R.M. 25/88R) de la Loi sur l'énergie hydraulique (c. W60 de la C.P.L.M.)

**THIS FOURTH SHORT-TERM EXTENSION LICENCE IS ISSUED TO:**

**MANITOBA HYDRO, "the licensee"**

being duly incorporated by an Act of the Legislature of the Province of Manitoba  
whose head office address is at 360 Portage Avenue,  
Winnipeg, Manitoba, R3C 0G8,

for the development of water power at Pointe du Bois Site on Winnipeg River.

WHEREAS:

- A. The licensee is the holder of a Third Short-Term Extension Licence for the Pointe du Bois Site, a licence issued under The Water Power Act, dated December 31, 2021, for a term of three (3) years effective from January 1, 2022, as the extension of the previously issued Fourth Renewal Licence. A copy of the Fourth Renewal Licence is attached as Schedule A to this Fourth Short-Term Extension Licence;
- B. The licensee by letter dated August 1, 2007, signed by T.M. Miles, Manager, Manitoba Hydro, applied for a renewal of the Pointe du Bois Fourth Renewal Licence;
- C. The Fifth Renewal Licence has not yet been renewed, and the licensee has applied by letter dated December 21, 2023, signed by W. V. Penner, Manager, Manitoba Hydro, to the Director of Environmental Approvals Branch, Manitoba, Environment and Climate Change for a Fourth Short-Term Extension Licence for the Pointe du Bois development in accordance with Section 92(8) of the Water Power Regulation and has done all things which, in the opinion of the Director, are required to be done by the licensee prior to the issuance of this Fourth Short-Term Extension Licence;
- D. It is contemplated that Crown-Indigenous consultations will be continued to inform decisions associated with the application for a Fifth Renewal Licence during the term of this Fourth Short-Term Extension Licence;
- E. The licensee has duly executed an acceptance of the terms and conditions of this Fourth Short-Term Extension Licence and has undertaken to observe and fulfill all the terms and conditions which the licensee is required to observe and fulfill under this Fourth Short-Term Extension Licence;

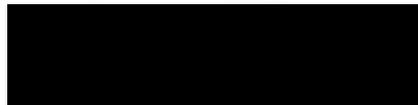
This Fourth Short-Term Extension Licence is granting to the licensee:

- (a) the right to impound, divert, and use water of the Winnipeg River at and near the Pointe du Bois Site;
- (b) the right to develop electric power and energy from the said waters;
- (c) the right to generate, transmit, distribute, sell, and deliver the said electric power and energy and for that purpose to use and occupy the lands of the Province described in the Fourth Renewal Licence; and
- (d) the right to operate and maintain the undertaking, the location and description

of which is shown upon the record plans numbered and filed in the office of the Director at Winnipeg (the "Undertaking").

This Fourth Short-Term Extension Licence is issued on the same terms and conditions as set out in the Fourth Renewal Licence dated August 17, 1992, subject to the following specific terms and conditions:

1. This Fourth Short-Term Extension Licence shall apply from January 1, 2025, to and including December 31, 2025.
2. On or before April 30, 2025, the licensee shall pay an annual rental in advance for the use and occupation of lands of the Province described in article 4 (a), (b), (c) and (d) of the Fourth Renewal Licence at the rates set from time to time by the Water Power Regulation under The Water Power Act.<sup>1</sup>
3. The licensee shall pay a monthly rental for the use of water for the development of power at the rates set from time to time by the Water Power Regulation under The Water Power Act and payable at the times and in the manner provided for by the Water Power Regulation under The Water Power Act.<sup>2</sup>
4. The terms and conditions set out in the Fourth Renewal Licence dated August 17, 1992, apply, as if set out specifically in this Fourth Short-Term Extension Licence, except:
  - (a) in article 2 "one hundred and five thousand (105,000) horsepower<sup>3</sup>" shall be "one hundred fourteen thousand (114,000) horsepower<sup>4</sup>"; and
  - (b) where the terms and conditions of the Fourth Renewal Licence are inconsistent with the terms and conditions set out specifically in this document, the terms and conditions set out in this document will apply.
5. The licensee shall participate in future planning, studies, and other initiatives as instructed by the Minister, in areas impacted by the Undertaking along with affected communities and other stakeholders.
6. The licensee shall continue submitting an annual report to the Director documenting the licensee's engagement with Indigenous communities on the continued operation of the Undertaking.
7. The licensee shall comply with The Water Power Act and the Water Power Regulation.



Jocelyn Baker  
Deputy Minister

<sup>1</sup> Rental rates for land use are currently set out in s. 48(3.1) of the Water Power Regulation.

<sup>2</sup> Rental rates for the use of water for the development of power are currently set out in s. 48(3.2) of the Water Power Regulation.

<sup>3</sup> 105,000 horsepower equals approximately 78.3 megawatts

<sup>4</sup> 114,000 horsepower equals approximately 85.0 megawatts

Appendix C: Maintenance and Construction Record

---

---

## Appendix C: Maintenance and Construction Record

The major maintenance and construction activities that occurred between 2008-2023 calendar years are summarized for the Pointe du Bois Water Power Act licence area:

### 2008

- Unit #4 - Turbine shaft and runner were replaced. The annunciator was replaced with a new Unit Control and Monitoring System.
- Unit #6 - Stator was rewound and the rotor upgraded.
- Unit #8 - Governor unloader was replaced.
- Unit #10 - Head cover was replaced.
- Unit #11 - Field poles were rehabilitated.
- Transformer Bank 1 - Five 6.9kV breakers were replaced.
- Transformer Banks 2 and 5 were replaced with salvaged units from Kelsey Generating Station.

### 2009

- Unit #2 - Turbine bearing was repaired and the generator was realigned with the turbine.
- A new spillway steam boiler and upgraded steam piping was installed to ensure river flow control and to reduce labour.
- New 100 PSI station service air compressors were installed.
- Roof repairs were made at the powerhouse gate room.

### 2010

- An oil containment system was installed.
- Powerhouse fall protection equipment was installed for staff safety.
- Two mid-span piers were installed as part of the construction of a new vehicle access bridge.
- Roof repairs were made on the powerhouse.
- The Bank 7C transformer was replaced.

### 2011

- Vehicle access bridge across the intake channel to the spillway structures, as well as associated fencing, gate, and signage were installed.
- Weld repair and replacement of components to the upstream runner, bottom ring, and discharge ring on Unit #13 were made.

- Weld repairs to cracked runners on Unit #10 were made and placement of unit on a 6 month inspection frequency to monitor the condition as a temporary fix until unit can be replaced.
- An upgrade to the Pointe du Bois sewer line lift station was made.

## 2012

- The Pointe-Slave access road extension was completed from the security gate into the Pointe du Bois townsite.
- Seven houses were demolished as part of the decommissioning of the townsite.
- A new powerhouse fire alarm was installed.
- Cavitation repairs were completed on Units #13, #14, #15 and #16.
- Mechanical repairs were completed on Units #15 and #16.

## 2013

- Roof membrane on entire powerhouse was replaced.
- Crane door for turbine room was replaced.
- Floorman's office construction was completed.
- Decommissioning of the Hydro townsite was continued in summer 2013. The curling rink, locomotive garage, two storage Quonsets and 17 houses were demolished.
- Unit #15 overhaul was completed and was returned to service.

## 2014

- New spillway completed and in-service.
- Unit 13 turbine rehabilitation was completed.
- Sewer treatment plant upgrade was completed.
- UV system water treatment plant upgrade was completed.
- Access road to powerhouse was completed.
- Installation of railings/guards around energized equipment was completed.
- Relocation of oil room from basement to the main level was completed.
- Pointe du Bois Operations Centre roof was replaced.
- Decommissioning of the Hydro townsite continued in summer 2014.

## 2015

- Completed construction of new main and south earthfill dams.
- Completed Unit 12 and 14 turbine rehabilitation.
- Unit 10 bearing replacement and unit alignment was completed.

- Completed demolition of Manitoba Hydro townsite and hydro-seeding.

## 2016

- Spillway Replacement Project Site Rehabilitation and Re-vegetation work (ongoing).
- Completed the Moose Creek tramway embankment excavation work to compensate for the loss of fish habitat (Part of Spillway Replacement Project).
- Completed majority of the deficiencies for the gates guides and hoists on the new spillway including installation of the spillway horn system.

## 2017

- Spillway replacement project site rehabilitation and re-vegetation work (ongoing).
- Rehabilitation of house unit #1 was completed.
- Rehabilitation of motor genset #2 gate hoist power supply completed.
- Purchased additional set of intake bulkhead gates.
- Units 3, 5, 7, and 11 decommissioned and removed (completed in 2016).

## 2018

- Unit 12 & 15 governor accumulator tank (vessel) fitness for service assessments.
- Unit 13 concrete repairs completed.
- Spillway Bay Gate 7 operating restriction assessment and removal.

## 2019

- Unit 10 concrete wall grouted to stop leakage.

## 2020

- Overhauled local service Unit 2.
- Sprayed herbicide to clear vegetation on embankment dams.

## 2021

- Overhauled local service Unit 2.

## 2022

- Pre-work was done for Pointe Renewable Energy Project.
- AC Headgate hoist refurbishment was completed.
- Record river flow event.

## 2023

- Pointe Renewable Energy Project – Demolition Mode.
- Switchyard Rehabilitation & Expansion Pre-Work.

## Appendix D: Reference Documents

## Appendix D

This appendix contains copies of key documents referenced previously in this report related to the licence renewal process. The following is a list of all relevant documents included:

- October 30, 1991 letter from the Minister of Natural Resources to the Executive Vice President of Manitoba Hydro notifying of change in land rental billing to calendar year
- February 29, 1996 letter from the Deputy Minister of Natural Resources to the Executive Vice President of Manitoba Hydro notifying of change in water rentals from annual to monthly
- November 4, 1996 letter from the Deputy Minister of Natural Resources to the Energy, Security & Sales Manager of Manitoba Hydro notifying of change in billing of land rentals from calendar year to fiscal year beginning April 1
- August 17, 2009 letter from Head of Water Power Licensing Manitoba Water Stewardship to Hydraulic Licensing and Support Section Head of Manitoba Hydro acknowledging the construction of Vehicle Access Bridge
- January 21, 2010 letter from Hydraulic Operations Department Manager of Manitoba Hydro to Executive Director Manitoba Stewardship notifying of change in scope of intent of plans to modernize facility
- February 9, 2010 letter from Executive Director Manitoba Stewardship to Hydraulic Operations Department Manager of Manitoba Hydro acknowledging MH's change of plans to modernize facility
- December 9, 2011 letter from Hydraulic Operations Department Manager of Manitoba Hydro to Executive Director Manitoba Stewardship of Manitoba Hydro's Request for Authorization for the Spillway Replacement Project (included Pointe du Bois Spillway Replacement project WPA Licensing Support Document dated November 2011)
- October 19, 2012 letter from Hydraulic Operations Department Manager of Manitoba Hydro to Executive Director Manitoba Stewardship of Manitoba Hydro's Request for Authorization for the Spillway Replacement Project with Revised Arrangement (included Alteration Report and engineering drawings, on August 17, 2012)
- December 6, 2012 letter from Assistant Deputy Minister Manitoba Conservation and Water Stewardship to Hydraulic Operations Department Manager of Manitoba Hydro authorizing the revised arrangement for the Pointe du Bois Spillway Replacement Project

- November 10, 2023 letter from Director Manitoba Environment and Climate Change to Waterway Approvals & Monitoring Department Manager of Manitoba Hydro confirming the Pointe du Bois Renewable Energy Project does not require authorization under Section 64 of the Water Power Regulation

Appendix D: October 30, 1991 letter



Minister of  
Natural Resources

Legislative Building  
Winnipeg, Manitoba, CANADA  
R3C 0V8

October 30, 1991

RECEIVED

NOV 4 1991

EXECUTIVE VICE-PRESIDENT

Mr. R.O. Lambert, P. Eng.  
Executive Vice-President  
Manitoba Hydro  
P.O. Box 815  
Winnipeg, Manitoba  
R3C 2P4

Dear Mr. Lambert:

Pursuant to Section 85 of the Water Power Regulation, you are hereby notified that the time of payment of rentals on Crown land required for water power purposes will be changed starting with the rentals due for 1992.

Currently, the annual land rentals (payable in advance) and the water power rentals (payable in arrears) for all the hydro-electric generating stations are invoiced for payment by the end of the fiscal year. Land rentals for Churchill River Diversion and Lake Winnipeg Regulation are invoiced individually.

Effective immediately, all land rentals associated with water power developments, due to this department by Manitoba Hydro, will be invoiced during November for payment by the first normal working day of the following January.

Your cooperation in providing payment of the account by the due date would be appreciated.



Harry J. Enns  
Minister

cc. L.J. Whitney  
V.M. Austford

199

**Manitoba**



**RECEIVED**

Deputy Minister of  
Natural Resources

Legislative Building  
Winnipeg, Manitoba, CANADA  
R3C 0V8

FEB 29 1996

EXECUTIVE VICE-PRESIDENT  
ENGINEERING AND ENVIRONMENT

FEB 29 1996

Mr. Ralph O. Lambert  
Executive Vice President  
Manitoba Hydro  
P.O. Box 815  
Winnipeg, Manitoba  
R3C 2P4

Dear Mr. Lambert:

The purpose of this letter is to notify Manitoba Hydro of a change in billing practice for water use rental as provided in The Water Power Act and Regulations.

Heretofore charges for water power rental have been applied at the end of each calendar year based on the actual usage for that year. Beginning with the month of May 1996, water power rental charges will be applied monthly. The methodology of doing so will be decided after consultation with Manitoba Hydro staff.

Early in May, an invoice will be issued for the months of January, February, March, and April of 1996 to bring the water use rental charges up to date for the start of monthly billing.

The details of the monthly billing procedure will be communicated to you after the above noted consultations have taken place.

Staff look forward to working cooperatively with Manitoba Hydro in the implementation of this revised billing practice.

Yours truly,

David Tomasson  
Deputy Minister

CIRCULATE

ROL
EAZ
FEB-F
DGC
ADC
ETF
RGK
GRN
✓ RRR
EEH

**RECEIVED**  
FEB 29 1996  
DIVISION MANAGER  
SYSTEM CREATING DIVISION

**Manitoba**



Deputy Minister of  
Natural Resources

Legislative Building  
Winnipeg, Manitoba, CANADA  
R3C 0V8

NOV - 4 1996

35CH

Mr. A.D. Cormie, P. Eng.  
Manager  
Energy, Security & Sales  
Power Supply  
Manitoba Hydro  
820 Taylor Avenue  
Winnipeg, Manitoba  
R3M 3T1

Dear Mr. Cormie:

The purpose of this letter is to notify Manitoba Hydro of a change in billing practice for land use rentals as provided in The Water Power Act and Regulation.

Heretofore, land use rentals have been payable at the beginning of each calendar year, on January 2. Beginning with the 1997-1998 fiscal year, land use rentals will be payable at the beginning of the fiscal year, on April 1.

The purpose of this change is to eliminate the need to accrue the revenue received to the proper fiscal year as required under the accounting procedure recently adopted by the department.

Early in February of each year, an invoice will be issued for the annual land use rentals for the ensuing fiscal year. Payment of this amount will be required on April 1. Early in November, 1996, an invoice will be issued for January, February, and March of 1997. The payment of this amount, which is 90/365 of the annual rentals, will be required on January 2, 1997.



- 2 -

This payment will bring the land use rentals up-to-date for the start of the fiscal year billing interval.

My staff looks forward to working cooperatively with Manitoba Hydro in the implementation of this revised billing practice.

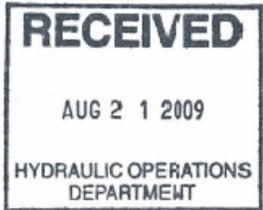
Yours truly,

David Tomasson  
Deputy Minister

Appendix D: August 17, 2009 letter



**Water Stewardship**  
 Head, Water Power Licensing  
 Water Use Licensing Section  
 Box 16, 200 Saulteaux Crescent  
 Winnipeg, Manitoba, Canada R3J 3W3  
 T 204-945-3613 F 204-945-7419  
 Purushottam.Singh@gov.mb.ca



	MJD	
✓	WVP	WVP
	KR	
✓	GEN	GEN
✓	SAH	SAH
✓	HJE	HJE
✓	File	

August 17, 2009

File: 21.12

Brian Giesbrecht  
 Hydraulic Licensing & Support Section Head  
 Hydraulic Operations Department  
 Manitoba Hydro  
 P.O. Box 815  
 WINNIPEG, MB R3C 2P4

Dear Mr. Giesbrecht:

**Re: Pointe du Bois – proposed vehicle access bridge**

This correspondence is in response to your email of July 21, 2009 in which you summarized Manitoba Hydro's proposal to construct a temporary vehicle access bridge at the Pointe du Bois Generating Station. I note that the proposed site of the bridge is located within the licensed area.

It is my understanding that the proposed access bridge will be instrumental in allowing Manitoba Hydro to continue safe operation and maintenance of the gravity dam and spillway areas located on the east side of the Winnipeg River. These facilities are important to ensure that the generating station can continue to be operated safely and in accordance with the terms of its water power license until such time as it is replaced or reconstructed under your modernization program.

I note that Manitoba Hydro is seeking appropriate approvals for the construction of the access bridge from various government agencies. I also note that Manitoba Hydro will decommission the structure and remove the various components once the bridge is no longer required. As a result, we have no concerns regarding this project at this time.

Thank you for keeping me informed and for providing this information regarding the proposed bridge construction. Should you have any questions regarding this letter, please contact me at 204-945-3613.

Yours truly,



Purushottam Singh, Ph.D., P. Eng.  
 Head, Water Power Licensing

cc: Steve Topping, P. Eng.  
 Rob Matthews, P. Geo.

Mr. D. Williamson  
2012 10 19  
Page 2

Please call me at 204-360-3018 if you need additional information on this request.

Yours truly,

Original signed by:

*Wesley Penner*

W.V. Penner, P. Eng.  
Manager  
Hydraulic Operations Department

KMM/ljm/00102-07311-0013\_00.docx  
Encl.

Appendix D: January 21, 2010 letter



PO Box 815 Stn Main · Winnipeg Manitoba Canada · R3C 2P4  
Telephone / N° de téléphone : (204) 360-3018 · Fax / N° de télécopieur : (204) 360-3136  
wvpenner@hydro.mb.ca

---

2010 01 21

Our file: 00102-07311-0005\_00

Mr. S.D. Topping, P.Eng.  
Executive Director  
Regulatory & Operational Services  
Manitoba Water Stewardship  
Box 11 - 200 Saulteaux Crescent  
Winnipeg, MB R3J 3W3

Dear Mr. Topping:

Re: POINTE DU BOIS INTERIM WATER POWER LICENCE CHANGE IN PLANS

Manitoba Hydro has changed the scope of its plans to modernize the Pointe du Bois facility from what was conveyed to you on 2007 08 01. The plan now is to build a new spillway, concrete and earth dam with upgrades to the existing powerhouse. The new spillway and earth dam will comply with modern dam safety guidelines. More details will be available at the meeting scheduled for 2010 01 27.

The existing powerhouse will continue to operate with upgrades to address safety and operational concerns.

Please provide us with the requirements for this licensing process.

Should you wish to discuss this further, please call me at 360-3018

Yours truly,

Original signed by: *Wesley Penner*

W.V. Penner, P.Eng.  
Manager  
Hydraulic Operations Department

HJE/ljm/00102-07311-0005\_00.doc





*Celebrating 60 years*

P.O. Box 815 Stn Main • Winnipeg Manitoba Canada • R3C 2P4  
Telephone / N° de téléphone : (204) 360-3018 • Fax / N° de télécopieur : (204) 360-6136  
wpenner@hydro.mb.ca

---

2011 12 09

Our file #00102-07311-0009\_00

Mr. S.D. Topping, P.Eng.  
Executive Director  
Regulatory & Operational Services  
Manitoba Water Stewardship  
Box 11, 200 Saulteaux Cresc.  
Winnipeg MB R3J 3W3

Dear Mr. Topping:

Re: **POINTE DU BOIS SPILLWAY REPLACEMENT PROJECT -  
REQUEST FOR AUTHORIZATION OF PROJECT**

We request your authorization to proceed with construction of the Pointe du Bois Spillway Replacement Project. The enclosed Licensing Support Document contains the statement and plans of this proposed change to the existing works and is submitted to meet the requirements of section 64 of the Water Power Regulation.

Preparatory work on the Pointe du Bois Spillway Replacement Project commenced in late 2011 and the project has an anticipated completion or in-service date of 2014. Manitoba Hydro anticipates receiving an Environment Act licence for this project prior to December 31, 2011.

Please call me at 360-3018 if you need additional information on this request.

Yours truly,

Original signed by:

*Wesley Penner*

W.V. Penner, P.Eng.  
Manager  
Hydraulic Operations Department

KMM/ljm/00102-07311-0009\_00.docx

Encl. See Report A156

## Appendix D: October 19, 2012



P.O. Box 815 Stn Main • Winnipeg Manitoba Canada • R3C 2P4  
Telephone / N° de téléphone : 360-3018 • Fax / N° de télécopieur : 360-6136  
wvpenner@hydro.mb.ca

---

2012 10 19

Our file: 00102-07311-0013\_00

Mr. D. Williamson  
Assistant Deputy Minister  
Water Stewardship Division  
Manitoba Conservation and Water Stewardship  
Box 11, 200 Saulteaux Crescent  
Winnipeg MB R3J 3W3

Dear Mr Williamson:

Re: POINTE DU BOIS SPILLWAY REPLACEMENT PROJECT –  
REQUEST FOR AUTHORIZATION OF PROJECT WITH REVISED ARRANGEMENT

We request your authorization to proceed with construction of the Pointe du Bois Spillway Replacement Project, with a revised arrangement from my initial request for authorization on December 9, 2011. During final design, it was determined that a revised arrangement to the spillway and dams would reduce cost, schedule and potential environmental effects.

Manitoba Hydro submitted an Alteration Report to the Province of Manitoba on August 17, 2012 that describes the physical changes to the development, raw materials or substances used or processed and environmental effects as compared with the original arrangement. Similar to the original arrangement, the revised arrangement will not alter existing water levels, upstream or downstream of the generating station, or river discharges. Subject to approval, we anticipate that construction activity associated with channel excavation will commence in November 2012.

The enclosed engineering drawings describe the proposed change to the existing works and replace the drawings in our previously submitted Licensing Support Document. Section 2.0 of the Alteration Report describes the changes to the project description from that included in the Licensing Support Document. We trust these submissions meet the requirements of section 64 of the Water Power Regulation.

Manitoba Hydro received Environment Act Licence No. 2988R on October 1, 2012 to implement the proposed alteration to the Pointe du Bois Spillway Replacement Project. Preparatory work on the project commenced in late 2011 and the project has an anticipated completion or in-service date of December 2014.

Mr. D. Williamson  
2012 10 19  
Page 2

Please call me at 204-360-3018 if you need additional information on this request.

Yours truly,

Original signed by:

*Wesley Penner*

W.V. Penner, P. Eng.  
Manager  
Hydraulic Operations Department

KMM/ljm/00102-07311-0013\_00.docx  
Encl.



Conservation and Water Stewardship

Water Stewardship Division  
Box 11, 200 Saulteaux Crescent  
Winnipeg MB R3J 3W3  
CANADA  
<http://www.gov.mb.ca/waterstewardship/>

December 6, 2012

File: 21.12

W. V. Penner, P. Eng.  
Manager  
Hydraulic Operations Department  
Manitoba Hydro  
P.O. Box 815  
Winnipeg MB R3C 2P4

Both references to  
October 22 should  
be October 19

Dear Mr. Penner:

**RE: Pointe du Bois Spillway Replacement Project with Revised Arrangement –  
Section 64 Authorization**

This is in regards to your October 22, 2012 letter and your request for authorization to change the description of the project described in the existing final water power licence in order to proceed with the Pointe du Bois Spillway Replacement Project. This information describes the works that will replace the existing spillway and associated structures at the Pointe du Bois Generating Station and was provided to satisfy Section 64 of the *Water Power Regulation*.

Staff of the Water Power Licensing Section have reviewed the information you have submitted and indicate the request for authorization filed with the Department provides a good understanding of the project and that it fulfills the requirements of Section 64 of the *Water Power Regulation*. I note that Manitoba Hydro will also implement effective environmental monitoring plans at each of the construction phases in consultation with the potentially affected stakeholders. As a result, as the Director under the *Water Power Regulation*, I hereby authorize the change in the works proposed for construction of the Pointe du Bois Spillway Replacement Project described in the Final Licence to those described in the engineering drawings submitted with your October 22, 2012 letter and I now confirm that the requirements of Section 64 of the *Water Power Regulation* have been satisfactorily met.

Please feel free to contact me at any time at the above address, at (204) 945-7030, or by email at [Dwight.Williamson@gov.mb.ca](mailto:Dwight.Williamson@gov.mb.ca).

Sincerely,

Dwight Williamson  
Assistant Deputy Minister

c: R. Matthews; P. Singh; B. Webb; G. Hannon



File No.: 21.12

November 10, 2023

W. V. Penner, P. Eng., Manager  
Waterway Approvals & Monitoring  
Manitoba Hydro  
16-360 Portage Avenue  
Winnipeg MB R3C 0G8  
[wvpenner@hydro.mb.ca](mailto:wvpenner@hydro.mb.ca)

Dear W. V. Penner:

**Re: Pointe du Bois Water Power Act Licence – Point du Bois Renewable Energy Project**

Thank you for your letter dated June 30, 2023, seeking advice on whether the replacement and the expansion works associated with the Pointe du Bois Renewable Energy Project require departmental authorization under Section 64 of the Water Power Regulation.

The project includes the replacement of eight generating units in the powerhouse of the Pointe du Bois generating station and the expansion of the existing switchyard station by over 50%. The Environmental Approvals Branch reviewed the June 30, 2023 letter, and additional follow-up information provided on September 13, 2023, and October 20, 2023. Manitoba Hydro operates the generating station under the authority of a third Short-term Extension Licence, which will expire on January 1, 2025.

The proposed replacement of the generating units for the generating station does not require authorization under Section 64 of the Water Power Regulation (the Regulation) for the following reasons:

- The replacement complies with Section 62(1) of the Regulation, for works, maintenance and operation.
- The generating station will continue to operate in full compliance with the existing licence conditions.
- The intakes and draft tubes will not require modification for replacement of the units, and the footprint of the powerhouse remains the same.
- The generating units will be replaced with the same type as the original.
- The replacement will not impact the forebay or tailrace water levels.

...2

The proposed expansion of the existing switchyard station does not require additional authorization under the Regulation for the following reasons:

- The expansion of the switchyard station is already being considered in Manitoba's Environment Act review of the Pointe du Bois to Whiteshell Transmission Project (File No. 6195.00).
- The expansion complies with Section 62(1) of the Regulation, for works, maintenance, and operation.
- The function of the switchyard station will not be changed, and will continue to operate in full compliance with the existing Water Power Act licence conditions.
- The expansion will remain within the existing severance line.

If you have any questions, please contact Asit Dey, Engineering Manager, Environmental Approvals Branch at [Asit.Dey@gov.mb.ca](mailto:Asit.Dey@gov.mb.ca) or 204-794-3389.

Sincerely,



Agnes Wittmann  
Director  
The Water Power Act

c. Asit Dey

## Appendix E: Pointe du Bois Licence Implementation Guide

Appendix E: Pointe du Bois GS Licence Implementation Guide (2022)



File No.: 21.12

January 25, 2023

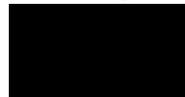
W. V. Penner, P. Eng.,  
Manager  
Waterway Approvals & Monitoring  
Manitoba Hydro  
16-360 Portage Avenue, Winnipeg MB R3C 0G8  
[wvpenner@hydro.mb.ca](mailto:wvpenner@hydro.mb.ca)

Dear W. V. Penner:

Thank you for your request dated December 8, 2022. I approve the revised Licence Implementation Guide for Pointe du Bois Generating Station.

If you have questions, please contact Asit Dey, Acting Engineering Manager, Environmental Approvals Branch at [Asit.Dey@gov.mb.ca](mailto:Asit.Dey@gov.mb.ca) or 204-794-3389.

Sincerely,



James Capotosto  
Director

c. Brian Giesbrecht  
Asit Dey

2022 12 08

Mr. James Capotosto  
Director, Environmental Approvals Branch  
Manitoba Environment, Climate and Parks  
[EABDirector@gov.mb.ca](mailto:EABDirector@gov.mb.ca)

Dear Mr. Capotosto:

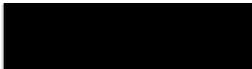
**POINTE DU BOIS GENERATING STATION – LICENCE IMPLEMENTATION GUIDE**

Enclosed for your approval is a revised Licence Implementation Guide for Pointe du Bois Generating Station. Manitoba Hydro prepared this revision to include terms and conditions found in the Pointe du Bois Water Power Act Third Short-term Extension Licence and its cover letter. The Water Power Act licence and cover letter specify operating limits and other requirements that must be met for compliance with the licence. As such, this document sets out the:

1. Methodology to be used for determining critical water levels;
2. Definition of licence compliance; and
3. Protocol for reporting.

Please contact me at 204-360-3018 if you have any questions or require additional information.

Yours truly,



W.V. Penner, P. Eng.  
Manager  
Waterway Approvals and Monitoring

BWG/00102-07311-0020\_00.docx  
Att.

c: D. Bjornson



# Manitoba Hydro Pointe du Bois Generating Station Licence Implementation Guide

*Prepared for:*

Environmental Approvals Branch  
Manitoba Environment, Climate and Parks  
1007 Century Street  
Winnipeg, Manitoba R3H 0W4

*Prepared by:*

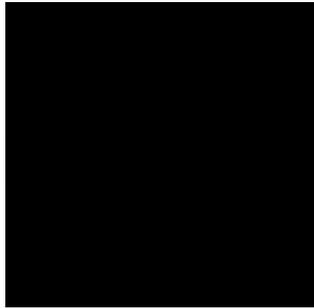
Waterway Approvals and Monitoring Department  
Manitoba Hydro  
360 Portage Avenue  
Winnipeg, Manitoba R3C 0G8

December 2022

## Version History

Version	Description	Date
Rev_0	Issued to Manitoba Sustainable Development for Approval	2017-10-31
Rev_1	Additional conditions from third STEL	2022-12-08

Manitoba Hydro  
Pointe du Bois Generating Station  
Licence Implementation Guide

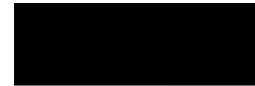


PREPARED BY:



B.W. GIESBRECHT

REVIEWED BY:



R.W. GIESBRECHT

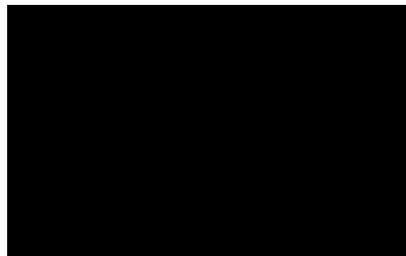
NOTED BY:



W.V. PENNER

DATE:

2022-12-08



# Executive Summary

## Introduction

Manitoba Hydro prepared this guide to document a common understanding of compliance with the water regime terms of the Pointe du Bois Water Power Act Licence. This document sets out the mutually understood and agreed to:

- 1) Methodology to be used for determining critical water levels;
- 2) Definition of licence compliance; and
- 3) Protocol for reporting.

## Pointe du Bois Inner Forebay Water Level

The Pointe du Bois Inner Forebay Water Level is directly measured at the beginning of each hour at the generating station.

## Compliance

Compliance with the Pointe du Bois Water Power Act Licence will be measured against the Pointe du Bois Inner Forebay Water Level.

## Reporting

In the event that the Pointe du Bois Inner Forebay Water Level is not in compliance with the licence limit, Manitoba Hydro will notify Manitoba Environment, Climate and Parks within one week of the incident. A follow-up report on causes contributing to the event and changes to operations, if any are needed to prevent such an event in the future, will be provided to Manitoba Environment, Climate and Parks. A record of water levels and licence compliance will also be provided in an annual report.

## Ongoing and Other Requirements

The Water Power Act Third Short-term Extension Licence and the associated cover letter from Manitoba specify a number of ongoing and other requirements that are not directly related to the day to day operation of the Pointe du Bois Generating Station. Manitoba Hydro will participate in and report on these additional requirements as directed.

## Change Management

Proposed revisions to this guide will be drafted by Manitoba Hydro as required or directed by Manitoba Environment, Climate and Parks. Following review and approval of revisions by Manitoba Environment, Climate and Parks, a revised copy of this guide will be produced and distributed by Manitoba Hydro.

## Table of Contents

Executive Summary .....	i
1. Introduction .....	1
1.1 Definitions .....	1
1.2 Datum .....	2
1.3 Quality Control.....	2
1.3.1 Benchmarks.....	2
1.3.2 Direct Water Level Measurements .....	2
1.3.3 Gauge Readings .....	3
1.4 Quality Assurance Procedure for Water Level Data .....	3
2. Pointe du Bois Forebay Water Level.....	4
3. Compliance .....	5
3.1 Pointe du Bois Water Power Act Licensing Requirement.....	5
3.2 Reporting.....	6
3.2.1 Compliance Reporting.....	6
3.2.2 Maintenance and Emergencies.....	6
3.2.3 Regular Annual Reporting.....	6
4. Ongoing and Other Requirements .....	7
4.1 Large Area Planning, Studies, and other Initiatives .....	7
4.2 Indigenous Engagement Report.....	7
4.3 Licence Modernization Processes .....	9
5. Change Management.....	9
5.1 Regular Updates.....	9
Appendix A Forebay Water Level Gauge Location.....	10

# 1. Introduction

Pointe du Bois Generating Station is located on the Winnipeg River approximately 160 km northeast of Winnipeg by road.

The Pointe du Bois Generating Station was built by City Hydro, later known as Winnipeg Hydro, and was acquired by Manitoba Hydro in 2002. The in-service date for the first unit of the generating station was 1911. All 16 units were commissioned by 1926. This is currently the oldest power plant still in operation on the Winnipeg River. In 2015, the Pointe du Bois Spillway Replacement Project was completed and involved the replacement of the east gravity dam, spillway bays and rockfill dam with a new 7-bay spillway as well as main and south earthfill dams.

Manitoba Hydro currently operates the Pointe du Bois Generating Station under a Third Short-Term Extension Licence (STEL) issued in accordance with the provisions of The Water Power Act on December 31, 2021. The STEL is in effect until January 1, 2025. The operating terms of the STEL are identical to those of the final licence. The STEL states that the station has a total nameplate capacity of 85 MW (114,000 horsepower).

The licence history of this generating includes a final licence and four renewal licences. The final licence was issued under the Dominion Water Power Act for a term of 20 years computed from November 1, 1911. Subsequently, four renewal licences were issued under The Water Power Act for a further term of 20 years each effective from January 1, 1932, January 1, 1952, January 1, 1972, and January 1, 1992 respectively.

## 1.1 Definitions

For the purposes of this guide, unless the context otherwise requires, the following terms shall have the respective meanings set out below and grammatical variations of such terms shall have corresponding meanings:

**ASL** means above sea level

**Controlling Benchmark** means Geological Survey of Canada (GS of C) benchmark 19K. Benchmark 19K is a brass cap in bedrock located on the right bank in the inner forebay about 750 feet upstream from the powerhouse.

Pointe du Bois Inner Forebay Gauge refers to a transducer in a stilling well located in the powerhouse.

Pointe du Bois Outer Forebay Gauge refers to a transducer in a stilling well located in a small shelter upstream of the spillway access bridge.

Pointe du Bois Inner Forebay Water Level means the hourly water level as measured by the Pointe du Bois Inner Forebay Gauge.

Pointe du Bois Outer Forebay Water Level means the hourly water level as measured by the Pointe du Bois Outer Forebay Gauge.

## **1.2 Datum**

Article 5 of the Pointe du Bois Water Power Act Licence limits the water level elevation at the powerhouse based on the Dominion Water Power Survey Datum. However, water level information for the operation of the Pointe du Bois Project is measured in terms of elevations ASL, GS of C, Canadian Government Vertical Datum (CGVD) 1928, 1929 Local Adjustment. To convert water levels measured on the Dominion Water Power Survey Datum to the GS of C CGVD 1928, 1929 Local Adjustment a 0.5 foot correction must be added.

## **1.3 Quality Control**

### **1.3.1 Benchmarks**

Vertical control surveys have been performed to establish appropriate local benchmarks at the Pointe du Bois Generating Station.

Pointe du Bois benchmarks were established by level transfer from Controlling Benchmarks using spirit levelling methods.

### **1.3.2 Direct Water Level Measurements**

Staff monitor the Pointe du Bois Inner Forebay Gauge and Pointe du Bois Outer Forebay Gauge equipment as required to maintain gauge performance. Direct water level measurements are taken during these checks and compared to the level indicated by the water level gauge. Direct water level measurements that differ by more than 0.1 feet are reported and repaired.

### 1.3.3 Gauge Readings

The inner and outer forebay gauges consist of transducers in stilling wells. The inner forebay gauge is located in the north-east section of the powerhouse upstream of the Unit 1 intake, while the outer forebay gauge is located in a shelter upstream of the spillway access bridge. Water levels at both gauges are measured and recorded using an ultrasonic transducer and a data logger.

## 1.4 Quality Assurance Procedure for Water Level Data

### Pointe du Bois Plant Data

Data is collected on site and signed off by the operating supervisor. Data is then sent to the Energy Operations Planning Department of Manitoba Hydro, uploaded into a database and checked for errors. Data errors are then corrected or verified by plant operating staff with technical assistance from Energy Operations Planning staff as needed. Once data has been verified, it may be used for operations planning, studies, model development and reporting.

## 2. Pointe du Bois Forebay Water Level

Article 4 of the Pointe du Bois Water Power Act Licence places a limit on the Pointe du Bois Inner Forebay Water Level. The forebay at Pointe du Bois consists of two parts: the inner forebay, located between the spillway access bridge and the powerhouse; and the outer forebay, extending upstream of the spillway access bridge to Lamprey Falls. The inner forebay elevation is subject to rapid changes due to flow changes and operations. The outer forebay encompasses a larger area and does not experience the same rapid changes as the inner forebay. Water levels are largely influenced by the operation of the Pointe du Bois Generating Station and local meteorological events. Due to the size of the forebay and the location of gauges, wind effects on the Pointe du Bois Inner Forebay Water Level and Pointe du Bois Outer Forebay Water Level are negligible. A map showing the locations of the Pointe du Bois Inner Forebay Gauge and Pointe du Bois Outer Forebay Gauge is provided in Appendix A.

Manitoba Hydro operates based on the Pointe du Bois Outer Forebay Water Level with sufficient buffer that the licence limit on the Pointe du Bois Inner Forebay Water Level is not exceeded. Pointe du Bois Inner Forebay Water Level and Pointe du Bois Outer Forebay Water Level measurements are taken continuously and recorded at the beginning of each hour and reported to Manitoba Hydro's System Control Centre.

## 3. Compliance

### 3.1 Pointe du Bois Water Power Act Licensing Requirement

#### Maximum Water Level

Article 5 of the licence stipulates that:

*"The Licensee shall not raise the headwater of the development, as measured at the powerhouse, to an elevation higher than 981.1 feet above mean sea level, Dominion Water Power Survey Datum (with wind effect eliminated). A higher elevation may be created only with written permission by the Director and in accordance with Section 72 of the Regulation."*

As described in Section 1.2, water levels at Pointe du Bois are measured in terms of elevations ASL, GS of C, CGVD 1928, 1929 Local Adjustment. To convert from the Dominion Water Power Survey Datum to the GS of C CGVD 1928, 1929 Local Adjustment a 0.5 foot correction is added. Therefore the maximum level allowed by licence is 981.6 feet, GS of C, CGVD 1928, 1929 Local Adjustment.

Manitoba Hydro, and previously Winnipeg Hydro, operates with a maximum Pointe du Bois Outer Forebay Water Level of 981.3 feet. This limit on the outer forebay provides sufficient buffer that water levels in the inner forebay remain in compliance with the licence. Local stakeholders are familiar with this forebay level.

The forebay water level shall be in compliance with the limit described above if the hourly Pointe du Bois Inner Forebay Water Level:

- a) does not exceed 981.6 feet by more than 0.1 feet; and
- b) does not exceed 981.6 feet more than two times or for more than two consecutive hours in any 24-hour period.

Based on the accuracy and location of the Pointe du Bois Inner Forebay Gauge, Manitoba Hydro defines instances where the licence limit is exceeded by 0.1 feet as reportable events.

To simplify compliance reporting at this location, Manitoba Hydro recommends that future Pointe du Bois Water Power Act Licences base elevations on the more commonly used GS of C, CGVD 1928, 1929 Local Adjustment Datum and that the measurement location be moved from the powerhouse to the outer forebay.

## 3.2 Reporting

### 3.2.1 Compliance Reporting

In the event that the Pointe du Bois Inner Forebay Water Level is not in compliance with the licence limit as described in Section 3.1, notification shall be made to Manitoba Environment, Climate and Parks within one week of the incident. A follow-up report on causes contributing to the event and changes to operations, if any are required to prevent such an event in the future, will be provided to Manitoba Environment, Climate and Parks.

### 3.2.2 Maintenance and Emergencies

During maintenance and emergencies there may be times when Manitoba Hydro is required to deviate from a licence condition for safety or other purposes. Manitoba Hydro will be considered compliant with the licence as long as:

1. Advanced notification is provided to Manitoba Environment, Climate and Parks of the upcoming licence deviation together with the reason. This will include a description of the operating plan, details of the expected licence deviation, a summary of anticipated impacts to stakeholders, and confirmation that stakeholders will also be notified; and
2. Advanced notification is provided to stakeholders of pertinent impacts to flow and water levels; and
3. Following the deviation, notification by letter is provided to Manitoba Environment, Climate and Parks on the details of the operation(s).

### 3.2.3 Regular Annual Reporting

Water levels and licence compliance will be reported annually to Manitoba Environment, Climate and Parks.

## 4. Ongoing and Other Requirements

### 4.1 Large Area Planning, Studies, and other Initiatives

The Water Power Act Third Short-term Extension Licence cover letter from the Province of Manitoba instructs Manitoba Hydro to:

“Participate in any future large area planning initiative that may include studies in areas impacted by hydroelectric development, along with affected communities with other stakeholders.”

Term 5 of the Water Power Act Third Short-term Extension Licence stipulates that:

“The Licensee shall participate in future planning, studies and other initiatives as instructed by the Minister, in areas impacted by the Undertaking along with affected communities and other stakeholders.”

Manitoba Hydro will participate in any future large area planning or other studies and initiatives as directed by the Minister. Progress updates will be provided as required in the Annual Water Levels and Flows Compliance Report.

### 4.2 Indigenous Engagement Report

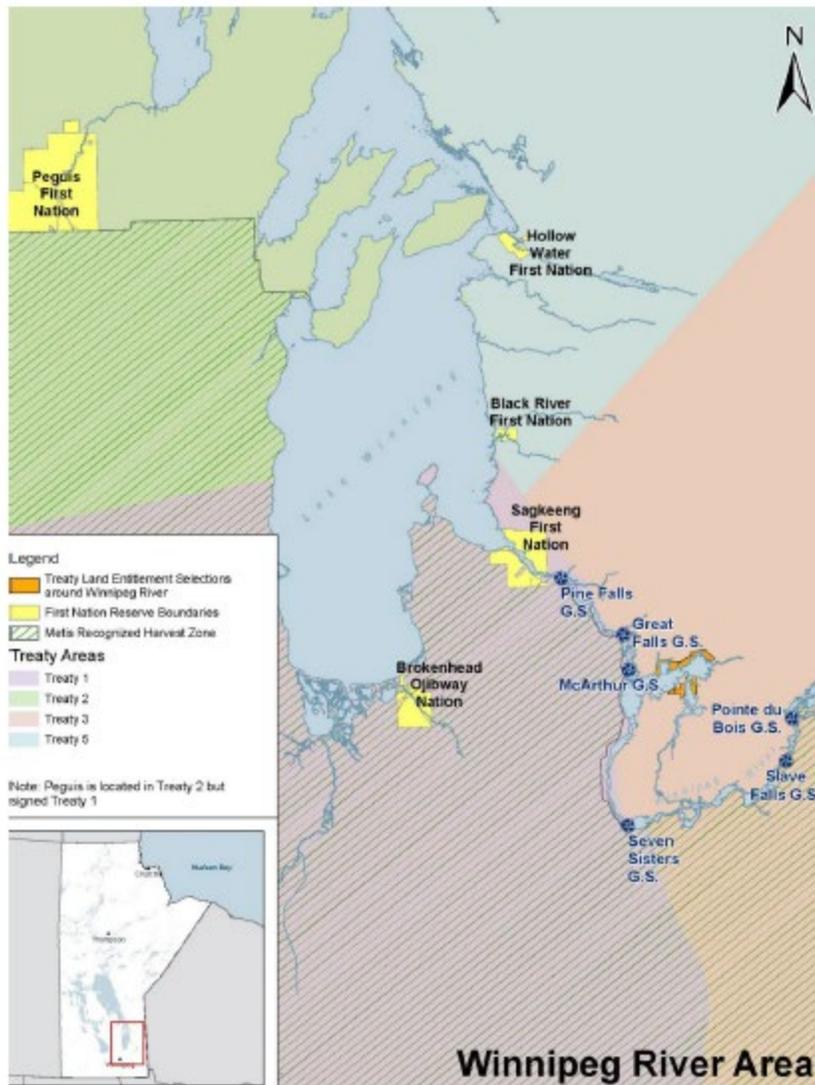
Term 6 of the Water Power Act Third Short-term Extension Licence stipulates that:

“The Licensee shall within 6 months of the issuance of this Third Short-term Extension Licence, and annually thereafter submit a report to the Director documenting the Licensee’s engagement with Indigenous communities on the continued operation of the Undertaking.”

Manitoba Hydro will submit an annual report by June 30 each year that provides an overview of the forums, programs, and activities through which it has engaged with Indigenous communities on the continued operation of generating stations on the Winnipeg River, including the Pointe du Bois Generating Station. Map 1 shows the location of First Nations, Treaty Land Entitlement selections and the Métis Recognized Harvest Zone in the Winnipeg River Region. The annual report will identify engagement activities with:

- Black River First Nation
- Brokenhead Ojibway Nation

- Hollow Water First Nation
- Peguis First Nation
- Sagkeeng First Nation
- The Manitoba Métis Federation



Map 1: Community Interests in the Winnipeg River Region

### **4.3 Licence Modernization Processes**

The Water Power Act Third Short-term Extension Licence cover letter from the Province of Manitoba instructs Manitoba Hydro to:

“Participate in the future licence modernization processes directed by the Province of Manitoba. The Province intends to evaluate the Water Power Act and Regulation to determine what amendments may be required for modernization”

Manitoba Hydro will participate in any future licence modernization processes as directed by Manitoba. Progress updates will be provided as required in the Annual Water Levels and Flows Compliance Report.

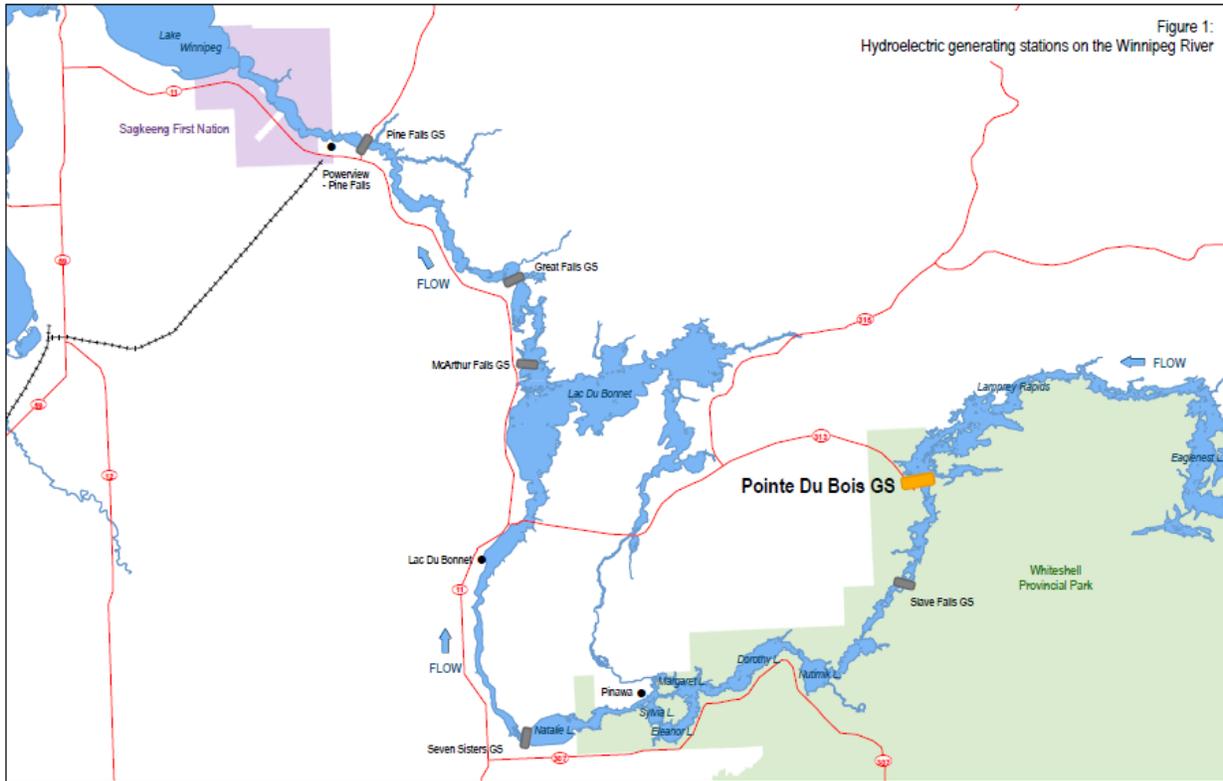
## **5. Change Management**

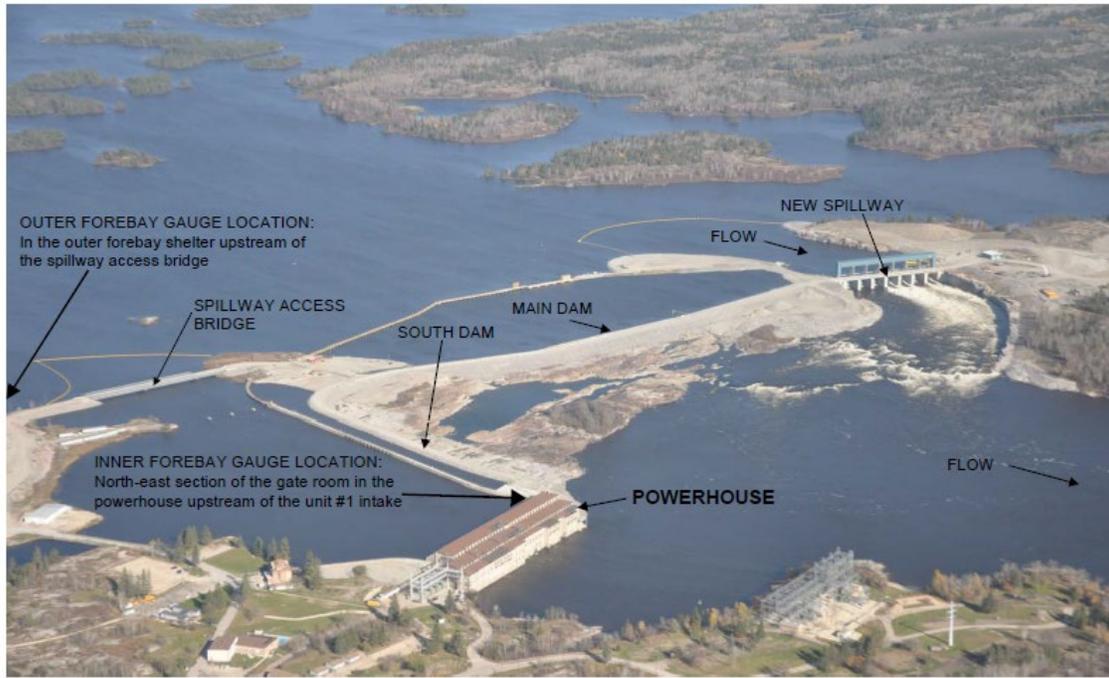
### **5.1 Regular Updates**

Proposed revisions to this Guide will be drafted by Manitoba Hydro as required or directed by Manitoba Environment, Climate and Parks. Following review and approval of revisions by Manitoba Environment, Climate and Parks, a revised copy of this Guide will be produced and distributed by Manitoba Hydro.

## Appendix A

### Forebay Water Level Gauge Location





	MANITOBA HYDRO	
	HYDRAULIC OPERATIONS DEPARTMENT	
	POINTE DU BOIS GENERATING STATION	
DRAWN BY PGC	FOREBAY WATER LEVEL GAUGE LOCATION	
YEAR 2017	PROJECT LICENCE IMPLEMENTATION GUIDE	FIGURE 2

## Appendix F: Glossary

## Glossary

**Canadian Dam Association Guidelines:** The guidelines were published in 2007 and revised in 2013. “The guidelines consist of principles that are applicable to all dams, and an outline of processes and criteria for management of dam safety in accordance with the principles.”

**Community:** In ecology, a community is an ecological unit composed of a group of organisms or a population of different species occupying a particular area, usually interacting with each other and their environment. For people, a community is a social group of any size, whose members reside in a specific locality.

**Control structure:** A type of structure designed to control the outflow from a waterbody.

**Cubic metres per second (cms or m<sup>3</sup>/s):** is a flow rate that quantifies the number of cubic metres of water flowing in one second.

**Dam:** A barrier built to hold back water.

**Dam Safety Emergency Plans:** The Canadian Dam Association (CDA) Guidelines specify that “all dams should have emergency response procedures and emergency preparedness plans in place if lives are at risk or if implementation of emergency procedures could reduce the potential consequences of failure”. The purpose of the emergency preparedness plan (EPP) is to provide contingency plans for a dam safety emergency, to ensure that all foreseeable eventualities have been thoroughly studied and to provide an appropriate, workable response plan to ensure safety of the public.

**Dam Safety Reviews (DSRs):** A Dam Safety Review is a systematic evaluation of the safety of a dam by means of comprehensive inspection of the structures, assessment of performance and review of the original design and construction records to ensure that they meet current criteria.

**Discharge:** Flow rate often measured in cubic metres per second or cubic feet per second.

**Drainage Basin:** A large area of land that collects water and then drains into a body of water. (used synonymously with Watershed).

**Dike:** An earth embankment constructed to contain the water in the reservoir and limit the extent of flooding.

**Ecosystem:** A dynamic complex of plant, animal and micro-organism communities and their non-living components of the environment interacting as a functional unit. (Canadian Environmental Assessment Agency)

**Environment:** The components of the Earth, including a) land, water and air, including all layers of the atmosphere, b) all organic and inorganic matter and living organisms, and c) the interacting natural systems that include components referred to in a) and b). (Canadian Environmental Assessment Agency)

**Environmental effect:** In respect of a project, any change that the project may cause in the environment, including any change it may cause to a listed wildlife species, its critical habitat or the residences of individuals of that species, as those terms are defined in subsection 2(1) of the Species At Risk Act.

**Farm Electrification Program:** Starting in 1942, Manitoba Power Commission started the Farm Electrification Program due to farmers petitioning the provincial government to provide electrical service. By 1954, the Farm Electrification program was virtually completed, with about 75 per cent of all farms in Manitoba having electrical service.

**Flooding:** The rising of a body of water so that it overflows its natural or artificial boundaries and covers adjoining land that is not usually underwater.

**Flow:** Motion characteristic of fluids (liquids or gases); any uninterrupted stream or discharge.

**Forebay:** Impoundment area immediately upstream from a dam or hydroelectric plant intake structure that forms the downstream portion of the reservoir.

**Full Supply Level:** The normal maximum water level of the forebay.

**Generating Station (GS):** A structure that produces electricity. Its motive force can be provided in a variety of ways, including burning of coal or natural gas, or by using water (hydro) power. Hydroelectric generating stations normally include a complex of powerhouse, spillway, dam(s) and transition structures; electrical energy is generated by using the flow of water to drive turbines.

**Hydroelectric:** Electricity produced by converting the energy of falling water into electrical energy.

**Impoundment:** The containment of a body of water by a dam, dike, powerhouse, spillway or other artificial barrier.

**Kilovolt (kV):** The unit of electromotive force or electrical pressure equivalent to 1,000 volts (V).

**Landscape:** The ecological landscape as consisting of a mosaic of natural communities; associations of plants and animals and their related processes and interactions.

**Licence Area:** All lands that are considered essential to a Water Power project.

**LiDAR:** LiDAR is a remote sensing technology that measures distance by illuminating a target with a laser and analyzing the reflected light. It is used to make high-resolution maps.

**Megawatt (MW):** The unit of electrical power equivalent to 1,000,000 watts.

**Mitigation:** A means of reducing adverse effects. Under the *Canadian Environmental Assessment Act*, and in relation to a project, mitigation is the elimination, reduction or control of the adverse environmental effects of a project, and includes restitution for any damage to the environment caused by such effects through replacement, restoration, compensation or any other means.

**Model:** A description or analogy used to help visualize something that cannot be directly observed. Model types range from a simple set of linkage statements or a conceptual diagram to complex mathematical and/or computer model.

**Monitoring:** Measurement or collection of data.

**Outflow:** The water flowing out of a water body (lake, reservoir, etc.).

**Parameter:** Characteristics or factor; aspect; element; a variable given a specific value.

**Power:** The instantaneous amount of electrical energy generated at a hydroelectric generating station, usually expressed in megawatts.

**Powerhouse:** Structure that houses turbines, generators, and associated control equipment, including the intake, scroll case and draft tube.

**Reservoir:** A body of water impounded by a dam and in which water can be stored for later use. The reservoir includes the forebay.

**Severance Line:** The severance line encompasses all lands that are considered essential to a Water Power project.

**Shoreline:** The narrow strip of land in immediate contact with a lake or river.

**Sluiceway:** A type of spillway equipped with gates to control the flow of water.

**Spillway:** A concrete structure that is used to pass excess flow so that the dam, dikes, and the powerhouse are protected from overtopping and failure when inflows exceed the discharge capacity of the powerhouse.

**Species:** A group of organisms that can interbreed to produce fertile offspring.

**Topography:** General configuration of a land surface, including its relief and the position of its natural and manmade features.

**Transmission Line:** A linear arrangement of towers and conductors which carries electricity from generating stations and transmission stations to load centres like communities and industries to meet electrical needs.

**Tributary(ies):** A river or stream flowing into a lake or a larger river or stream.

**Velocity:** A measurement of speed.

**Water quality:** Measures of substances in the water such as nitrogen, phosphorus, oxygen and carbon.

**Water regime:** A description of water body (i.e. lake or river) with respect to water levels, flow rate, velocity, daily fluctuations, seasonal variations, etc.

**Watershed:** A large area of land that collects water and then drains into a body of water. (used synonymously with Drainage Basin)

**Weir:** A low dam built across a river to raise the level of water upstream or regulate its flow.