



Licence to Prepare Site Initial Application: MMR Nuclear Plant at Chalk River

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Revision
1



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ABBREVIATIONS

This list contains the abbreviations frequently used in this document.

Abbreviation or Acronym	Definition
AECL	Atomic Energy of Canada Ltd.
CANDU	CANada Deuterium Uranium (reactor)
CEO	Chief Executive Officer
CNSC	Canadian Nuclear Safety Commission
COO	Chief Operating Officer
CRL	Chalk River Laboratories
EA	Environmental Assessment
FCM™	Fully-Ceramic Micro-encapsulated™ (fuel)
GFP	Global First Power Ltd.
IT	Information Technology
LTC	Licence to Construct
LTO	Licence to Operate
LTPS	Licence to Prepare Site
MMR™	Micro Modular Reactor™
MWt	Megawatt thermal
OPG	Ontario Power Generation Inc.
SMR	Small Modular Reactor
SPOC	Single Point of Contact
USNC	Ultra Safe Nuclear Corporation

1. Introduction

This document provides information in support of Global First Power's (GFP) partial (initial) application for a Licence to Prepare Site (LTPS) for one Micro Modular Reactor (MMR^{TM1}) Nuclear Plant on the Chalk River Laboratories (CRL) property.

The CRL property, which is Federal land owned by Atomic Energy of Canada Limited (AECL), is located in Renfrew County, Ontario, on the shore of the Ottawa River, approximately 200 kilometres northwest of Ottawa. The CRL site has a total area of approximately 4,000 hectares and is situated within the boundaries of the Corporation of the Town of Deep River, Ontario.

GFP is proposing a Small Modular Reactor (SMR) project using the MMR technology developed and supplied by Ultra Safe Nuclear Corporation (USNC), and having it sited on the CRL property. GFP has partnered with Ultra Safe Nuclear Corporation (USNC), the MMR technology supplier, who is based in Seattle, United States, and with Ontario Power Generation Inc. (OPG). OPG, or a subsidiary of OPG, will provide licensing and operations capability for the MMR facility during the construction, operation, and decommissioning phases of the project.

GFP is a company incorporated in Canada, specializing in small nuclear project development and project financing. GFP has been developing capabilities to function as a smart buyer of nuclear technology and specifically for the use of the MMR technology.

USNC is a nuclear technology developer based in Seattle, Washington, USA. USNC owns the design intellectual property for the for the MMR reactors and for the Fully-Ceramic Micro-encapsulated (FCM^{TM2}) fuel. USNC is the reactor technology supplier for the MMR Project at Chalk River.

OPG is a corporation wholly owned by the Government of Ontario. OPG is the owner and operator of CANDU nuclear power plants within Ontario.

The MMR Nuclear Plant, which is the subject of this licence application, is a part of the MMR Project at Chalk River, Ontario. The MMR Nuclear Plant includes an MMR High Temperature Gas-cooled Reactor, which is an SMR that will provide approximately 15 MWt of process heat via molten salt to a (non-nuclear) Adjacent

¹ The Micro Modular Reactor (MMR) is a Trademark of Ultra Safe Nuclear Corporation. Everywhere the terms "Micro Modular Reactor" or "MMR" are used in this document, it should be noted that a Trademark is associated with them.

² The term Fully Ceramic Micro-encapsulated (FCM) is a Trademark of Ultra Safe Nuclear Corporation. Everywhere the terms "Fully Ceramic Micro-encapsulated" or FCM" are used in this document, it should be noted that a Trademark is associated with them.

Plant, over an anticipated lifespan of 20 years. The Nuclear Plant also includes all the equipment required to transport the heat from the reactor, support the operation of the Nuclear Plant and ensure its safety.

The MMR Nuclear Plant is independent of the Adjacent Plant, requiring no supporting services from the Adjacent Plant for its safe operation. The Adjacent Plant is not subject to this or any subsequent licence application under the *Nuclear Safety and Control Act* [1].

The Canadian Nuclear Safety Commission (CNSC) regulatory document REGDOC-1.1.1 [2], section A.1, states that “the applicant may submit a complete application or a partial application”. This document includes two of the three elements required for the partial (initial) application, specifically:

- GFP’s general information and general project information, as required in sections A.3 through A.5 of REGDOC-1.1.1 [2], and
- GFP’s intended approach for the conduct of the Environmental Assessment and licensing process (that is, parallel or sequential approach).

The third element, i.e. a proposed schedule for submission of the remaining material, is provided in a separate document [3].



2. Global First Power General Information

2.1. GFP Name and Business Address

Applicant Name: Global First Power Ltd.

Business Address (head office): Suite 1537, 4 Robert Speck Parkway, Mississauga, Ontario, L4Z 1S1

2.2. GFP Mailing Address

GFP's mailing address is the same as the head office address that is provided in section 2.1 above.

2.3. GFP Authority Persons to Interact with the CNSC

Mr. Joe Howieson, GFP's Chief Executive Officer (CEO), is the responsible authority to interact with the Commission. In the remote possibility that Mr. Howieson is not available at any point in time, his back-up for communication with the Commission is Dr. Robert Ion, GFP's Licensing Director.

Dr. Robert Ion, GFP's Licensing Director, is the responsible authority to interact with the CNSC. In the remote possibility that Dr. Ion is not available at any point in time, his back-up for communication with the CNSC is Mr. Joe Howieson, GFP's Chief Executive Officer (CEO).

2.3.1. Authority Persons Contact Information

The contact information for GFP's CEO and Licensing Director is as follows:

Mr. Joe Howieson

- Title: Chief Executive Officer
- Contact information: joe.howieson@globalfirstpower.com; phone number: 1-905-366-7303
- Mailing Address: same as business address

Dr. Robert Ion

- Title: Licensing Director



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- Contact information: robert.ion@globalfirstpower.com; phone number: 1-905-366-7303
- Mailing Address: same as business address

2.4. Proof of GFP Legal Status

A copy of GFP's Articles of Incorporation is provided in Appendix A of this document.

2.5. Site Authority

Atomic Energy of Canada (AECL) owns the Chalk River Laboratories property where GFP proposes to site the MMR Project. GFP has started discussions with AECL that are part of the negotiation of land arrangements for the site. A copy of the letter from AECL stating their intention to enter into discussions with GFP on potential land arrangements is provided in Appendix B of this document. The discussions will lead to GFP and AECL entering into a formal agreement for the site authority. GFP expects to receive the formal agreement for the site authority from AECL in support of the Commission licence hearing.

2.6. Management and Control of Licensed Activity

GFP's organizational management structure, including the internal allocation of functions, responsibilities and authority is provided in Appendix C of this document.

The contact information of the Chief Executive Officer (CEO) is provided in section 2.7 below.

2.7. GFP Legal Signing Authority and Billing Contact Person

Information regarding GFP's legal signing authority and billing contact person is as follows:

Mr. Joe Howieson

- Title: Chief Executive Officer
- Contact information: joe.howieson@globalfirstpower.com; phone number: 1-905-366-7303
- Address: 1537 – 4 Robert Speck Parkway, Mississauga, Ontario, L4Z 1S1



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2.8. Nuclear and Hazardous Substances

Currently, there is no plan to use nuclear or hazardous substances during site preparation activities that are not exempt from a licence by the Nuclear Substance and Radiation Devices Regulations [4]. In the remote chance that during the site preparation activities (e.g., during excavation activities) some nuclear or hazardous substances that are not exempt from a licence by the Nuclear Substance and Radiation Devices Regulations may be uncovered, this will be addressed as required.

3. General Description of the Project

3.1. Activity to be Licensed

The activity to be licensed is site preparation; that is preparing a site for the future construction, operation and followed by eventual decommissioning of the MMR Nuclear Plant that includes one Micro Modular Reactor and all the equipment required to transport the heat from the reactor, support the operation of the Nuclear Plant and ensure its safety, at a site located on the Chalk River Laboratories property.

The following activities are expected to be performed during the site preparation work:

- Construction of site access control measures
- Clearing and grubbing of vegetation
- Excavation and grading of the site to a finished elevation
- Installation of services and utilities required to service the future project facilities (e.g., domestic water, fire water, sewage, electrical, communications, natural gas)
- Construction of support buildings inside the site, if any
- Construction of required environmental monitoring and mitigation systems
- Construction of required flood protection and erosion control measures
- Demolition and removal of existing structures (if required)
- Construction/paving of parking area(s), access ways and roads
- Drilling and installation of support pilings
- Excavation of the Citadel building foundation
- Erection of temporary storage and laydown areas as well as a construction yard including handling of commodities and tools

3.2. Project Descriptive Overview, Location and Site Layout

An overall project description that includes location and layout information of the MMR Nuclear Plant, addressing CNSC requirements in sections A.4 and A.5 of REGDOC-1.1.1, is provided separately in the “Project Description for the Micro Modular Reactor™ Project at Chalk River” document [5].



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4. Approach for the Conduct of Environmental Assessment and Licensing Process

GFP intends the conduct of the Environmental Assessment (EA) and licensing process for the MMR Nuclear Plant be performed in parallel.

GFP expects that the EA for entire Project (i.e., MMR Nuclear Plant and the Adjacent Plant) will need to be performed as a result of this application for licence to prepare site for the MMR Nuclear Plant.



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5. References

- [1] Nuclear Safety and Control Act, S.C. 1997, c. 9, last amended on January 1, 2017.
- [2] CNSC, REGDOC-1.1.1, "Site Evaluation and Site Preparation for New Reactor Facilities", July 2018.
- [3] GFP, "MMR Nuclear Plant: Proposed Schedule for Submission of Licence Application Information", CRP-LIC-01-003, June 2019.
- [4] CNSC, Nuclear Substances and Radiation Devices Regulations, SOR/2000-207.
- [5] GFP, "Project Description for the Micro Modular Reactor Project at Chalk River", CRP-LIC-01-001, June 2019.

6. Appendices

6.1. Appendix A: Global First Power Articles of Incorporation



Industry
Canada

2014-08-27

Corporations Canada
9th Floor, Jean Edmonds Towers South
365 Laurier Avenue West
Ottawa, Ontario K1A 0C8

Corporations Canada
9e étage, Tour Jean-Edmonds sud
365 avenue Laurier ouest
Ottawa (Ontario) K1A 0C8

Corporation Information Sheet

Canada Business Corporations Act (CBCA)

Fiche de renseignements concernant la société

Loi canadienne sur les sociétés par actions (LCSA)

Global First Power Ltd.

Corporation Number	894433-4	Numéro de société
Corporation Key Required for changes of address or directors online	12415497	Clé de société Requise pour mettre à jour en ligne l'adresse du siège social ou l'information concernant les administrateurs
Anniversary Date Required to file annual return	07-04 (mm-dd/mm-jj)	Date anniversaire Requise pour le dépôt du rapport annuel
Annual Return Filing Period Starting in 2015	07-04 to/au 09-02 (mm-dd/mm-jj)	Période pour déposer le rapport annuel Débutant en 2015

Reporting Obligations

A corporation can be dissolved if it defaults in filing a document required by the CBCA. To understand the corporation's reporting obligations, consult Keeping Your Corporation in Good Standing (enclosed or available on our website).

Corporate Name

Where a name has been approved, be aware that the corporation assumes full responsibility for any risk of confusion with existing business names and trademarks (including those set out in the NUANS® search report). The corporation may be required to change its name in the event that representations are made to Corporations Canada and it is established that confusion is likely to occur. Also note that any name granted is subject to the laws of the jurisdiction where the corporation carries on business. For additional information, consult **Protecting Your Corporate Name** (enclosed or available on our website).

Obligations de déclaration

Une société peut être dissoute si elle omet de déposer un document requis par la LCSA. Pour connaître les obligations de déclaration de la société veuillez consulter Maintenir votre société en conformité, ci-jointe ou disponible dans notre site Web.

Dénomination sociale

En dépit du fait que Corporations Canada ait approuvé la dénomination sociale, il faut savoir que la société assume toute responsabilité de risque de confusion avec toutes dénominations commerciales, marques de commerce existantes (y compris celles qui sont citées dans le rapport de recherche NUANS®). La société devra peut-être changer sa dénomination advenant le cas où des représentations soient faites auprès de Corporations Canada établissant qu'il existe une probabilité de confusion. Il faut aussi noter que toute dénomination octroyée est assujettie aux lois de l'autorité législative où la société mène ses activités. Pour obtenir de l'information supplémentaire, veuillez consulter le document **Protection de la dénomination sociale** ci-joint ou disponible dans notre site Web.



Certificate of Incorporation

Canada Business Corporations Act

Certificat de constitution

Loi canadienne sur les sociétés par actions

Global First Power Ltd.

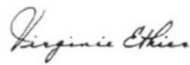
Corporate name / Dénomination sociale

894433-4

Corporation number / Numéro de société

I HEREBY CERTIFY that the above-named corporation, the articles of incorporation of which are attached, is incorporated under the *Canada Business Corporations Act*.

JE CERTIFIE que la société susmentionnée, dont les statuts constitutifs sont joints, est constituée en vertu de la *Loi canadienne sur les sociétés par actions*.



Virginie Ethier

Director / Directeur

2014-07-04

Date of Incorporation (YYYY-MM-DD)

Date de constitution (AAAA-MM-JJ)



Industry Industrie
Canada Canada

Form 1
Articles of Incorporation
*Canada Business Corporations
Act (s. 6)*

Formulaire 1
Statuts constitutifs
*Loi canadienne sur les sociétés
par actions (art. 6)*

- 1 Corporate name
Dénomination sociale
Global First Power Ltd.
- 2 The province or territory in Canada where the registered office is situated
La province ou le territoire au Canada où est situé le siège social
ON
- 3 The classes and any maximum number of shares that the corporation is authorized to issue
Catégories et le nombre maximal d'actions que la société est autorisée à émettre
See attached schedule / Voir l'annexe ci-jointe
- 4 Restrictions on share transfers
Restrictions sur le transfert des actions
See attached schedule / Voir l'annexe ci-jointe
- 5 Minimum and maximum number of directors
Nombre minimal et maximal d'administrateurs
Min. 1 Max. 11
- 6 Restrictions on the business the corporation may carry on
Limites imposées à l'activité commerciale de la société
See attached schedule / Voir l'annexe ci-jointe
- 7 Other Provisions
Autres dispositions
See attached schedule / Voir l'annexe ci-jointe
- 8 **Incorporator's Declaration:** I hereby certify that I am authorized to sign and submit this form.
Déclaration des fondateurs : J'atteste que je suis autorisé à signer et à soumettre le présent formulaire.

Name(s) - Nom(s)

Tim Peterson

[Redacted Signature]

Tim Peterson

Misrepresentation constitutes an offence and, on summary conviction, a person is liable to a fine not exceeding \$5000 or to imprisonment for a term not exceeding six months or both (subsection 250(1) of the CBCA).

Faire une fausse déclaration constitue une infraction et son auteur, sur déclaration de culpabilité par procédure sommaire, est passible d'une amende maximale de 5 000 \$ et d'un emprisonnement maximal de six mois, ou l'une de ces peines (paragraphe 250(1) de la LCSA).

You are providing information required by the CBCA. Note that both the CBCA and the Privacy Act allow this information to be disclosed to the public. It will be stored in personal information bank number IC/PP1-049.

Vous fournissez des renseignements exigés par la LCSA. Il est à noter que la LCSA et la Loi sur les renseignements personnels permettent que de tels renseignements soient divulgués au public. Ils seront stockés dans la banque de renseignements personnels numéro IC/PP1-049.



Industry
Canada

Industrie
Canada

Form 2

**Initial Registered Office Address
and First Board of Directors**

*Canada Business Corporations Act
(CBCA) (s. 19 and 106)*

Formulaire 2

**Siège social initial et premier
conseil d'administration**

*Loi canadienne sur les sociétés par
actions (LCSA) (art. 19 et 106)*

1 Corporate name
Dénomination sociale
Global First Power Ltd.

2 Address of registered office
Adresse du siège social



3 Additional address
Autre adresse

4 Members of the board of directors
Membres du conseil d'administration

Joe Howieson

Tim Peterson



Resident Canadian
Résident Canadien
Yes / Oui

Yes / Oui

5 Declaration: I certify that I have relevant knowledge and that I am authorized to sign this form.
Déclaration : J'atteste que je possède une connaissance suffisante et que je suis autorisé(e) à signer le présent formulaire.



Tim Peterson

Misrepresentation constitutes an offence and, on summary conviction, a person is liable to a fine not exceeding \$5000 or to imprisonment for a term not exceeding six months or both (subsection 256(1) of the CBCA).

Faire une fausse déclaration constitue une infraction et son auteur, sur déclaration de culpabilité par procédure sommaire, est passible d'une amende maximale de 5 000 \$ et d'un emprisonnement maximal de six mois, ou l'une de ces peines (paragraphe 256(1) de la LCSA).

You are providing information required by the CBCA. Note that both the CBCA and the Privacy Act allow this information to be disclosed to the public. It will be stored in personal information bank number IC/PPU-049.

Vous fournissez des renseignements exigés par la LCSA. Il est à noter que la LCSA et la Loi sur les renseignements personnels permettent que de tels renseignements soient divulgués au public. Ils seront stockés dans la banque de renseignements personnels numéro IC/PPU-049.



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Schedule / Annexe

Description of Classes of Shares / Description des catégories d'actions

The corporation is authorized to issue an unlimited number of Class A and Class B shares with the following rights, privileges, restrictions and conditions:

1. Class A shares, without nominal or par value, the holders of which are entitled:

- a. to vote at all meetings of shareholders except meetings at which only holders of a specified class of shares are entitled to vote; and
- b. to receive the remaining property of the corporation upon dissolution; and
- c. subject to the rights and privileges attaching to the Class B shares, to receive the dividends as and when declared by the board of directors of the corporation.

2. Class B shares, which shall carry the right:

- a. to a dividend as fixed by the board of directors and
- b. upon the liquidation or winding-up of the corporation, to repayment of the amount paid for such share (plus any declared and unpaid dividends) in priority to the Class A shares, but they shall not confer a right to any further participation in profits or assets.

The holders of Class B shares shall not be entitled to vote at meetings of shareholders except as otherwise specifically provided in the Canada Business Corporations Act.



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Schedule / Annexe

Restrictions on Share Transfers / Restriction sur le transfert d'actions

The right to transfer shares of the Corporation shall be restricted in that no shareholder shall be entitled to transfer any share or shares of the Corporation without the approval of:

1. the directors of the Corporation expressed by resolution passed by the votes cast by a majority of the directors of the Corporation at a meeting of the board of directors or signed by all of the directors of the Corporation; OR
2. the shareholders of the Corporation expressed by resolution passed by the votes cast by a majority of the shareholders who voted in respect of the resolution or signed by all shareholders entitled to vote on that resolution.



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Schedule / Annexe

Restrictions on Business / Restrictions imposes aux activités commerciale

None



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Schedule / Annexe Other Provisions / Autres dispositions

None

6.2. Appendix B: Letter AECL to GFP re “Potential SMR Demonstration Project at AECL’s Chalk River Site”



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2019 February 8

Record Number: STCO-12484474-1430

Joe Howieson
Chief Executive Officer
Global First Power Ltd.
1537 – 4 Robert Speck Parkway
Mississauga, ON L4Z1S1

Re: Potential SMR Demonstration Project at AECL’s Chalk River Site

Dear Mr. Howieson,

I am pleased to inform you that Atomic Energy of Canada Limited (“**AECL**”) has accepted CNL’s recommendation under the parameters of the Invitation for Small Modular Reactor (SMR) Demonstration Projects, issued by Canadian Nuclear Laboratories Ltd. (“**CNL**”), dated April 16, 2018 (the “**Invitation**”). Specifically, we have accepted CNL’s recommendation that Global First Power (“**GFP**”) enter into Stage 3: Negotiation of Land Arrangements and Other Contracts. Our acceptance of CNL’s recommendation and GFP’s entry into Stage 3 is subject to the terms of this letter. For ease of reference, we have used capitalized terms which have the meanings set forth in the Invitation, unless otherwise defined in this letter.

As you are aware, AECL is a federal crown corporation responsible for enabling nuclear science & technology and managing the Government of Canada’s decommissioning and radioactive waste responsibilities. AECL is also the owner of a number of sites, including the Chalk River Laboratories, located in Chalk River, Ontario, which are managed and operated under a Government-owned, Contractor-operated (“**GoCo**”) model, through a contractual arrangement with its contractor, CNL.

In furtherance of its mandate and via the GoCo model, AECL has been working with CNL to have CNL develop a process by which CNL could recommend the establishment of one or more SMR Projects on one or more SMR Sites. To that end, CNL issued the Invitation and GFP submitted a response as a Proponent. As contemplated by Stage 2: Due Diligence of the Invitation, CNL conducted an initial review of GFP’s response to the Initiation and recommended that AECL issue this letter to confirm that GFP is authorized to proceed into Stage 3.

AECL’s acceptance of CNL’s recommendation under the Invitation means that AECL is willing to enter into initial, non-exclusive, non-binding discussions with GFP regarding a potential SMR Project at an SMR Site, including potential land arrangements and other contracts. It is important to understand that AECL is not, by issuing this letter or otherwise, in any way committing to GFP to proceed with an SMR Project and AECL may, at any time and for any reason, cease discussions with GFP. Any decision

Atomic Energy of Canada Limited
286 Plant Rd
Chalk River, Ontario
Canada K0J 1J0
Telephone: 613-589-2085

Énergie atomique du Canada limitée
286 rue Plant
Chalk River (Ontario)
Canada K0J 1J0
Téléphone: 613-589-2085



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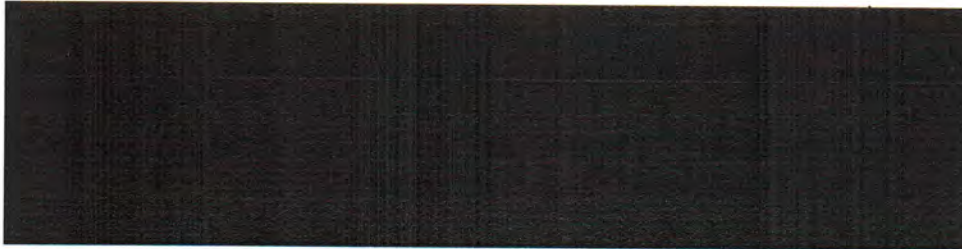
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Joe Howieson
Chief Executive Officer


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by GFP to proceed to Stage 3 as outlined herein and pursuant to the invitation is entirely at GFP's own risk.



While there remains considerable effort ahead to advance a potential SMR Project at an SMR Site, this does represent a meaningful milestone towards that end. You can expect to hear from CNL in the coming days regarding planning for public communications related to this letter. In the meantime, we expect that you keep all aspects of this letter, including that fact that AECL has received and accepted the aforementioned recommendation from CNL and that GFP has received this letter, confidential as per the Multi-Party Mutual non-Disclosure Agreement of April 2018, in place between GFP, AECL and CNL. CNL will also confirm your interest in proceeding to Stage 3, and make arrangements for a kick-off meeting. We thank you for the efforts that you have made to date and look forward to our initial discussions in Stage 3.

Yours truly,

 on behalf of Richard Sexton

Richard Sexton
President and Chief Executive Officer
ATOMIC ENERGY OF CANADA LIMITED

Cc:
Kathy McCarthy - CNL

STCO-12484474-1430

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6.3. Appendix C: GFP Organizational Chart

Global First Power Ltd. Organization Chart

