

Archived: Thursday, December 22, 2022 11:41:38 AM

From: [Gauthier, Rick](#)

Sent: Tuesday, November 15, 2022 6:57:42 AM

To: [Vigder, Joseph \(IAAC/AEIC\)](#)

Cc: [Harris, Claire](#); [Hayward, Andy](#); [McGathey, Andrea](#); [Reactor-Reacteur \(IAAC/AEIC\)](#)

Subject: RE: EXT - SMR Demonstration Project Designation Request - A Few more Questions for NB Power

Sensitivity: Normal

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Response in red below.



**Rick Gauthier**

Licensing Manager

Advanced Reactor Development Team

<contact information removed>

[nbpower.com](http://nbpower.com) | [energienb.com](http://energienb.com)

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From: Vigder, Joseph (IAAC/AEIC) <joseph.vigder@iaac-aeic.gc.ca>

Sent: November 08, 2022 4:26 PM

To: Gauthier, Rick <R >

Cc: Harris, Claire <> ; Hayward, Andy <> ; McGathey, Andrea

<> ; Reactor-Reacteur (IAAC/AEIC) <Reactor-Reacteur@iaac-aeic.gc.ca>

Subject: EXT - SMR Demonstration Project Designation Request - A Few more Questions for NB Power

\*\*\* Attention: External Message / Message externe \*\*\*

Hi Rick,

We continue to progress through our analysis for the ARC SMR designation request. I have a few, and hopefully straightforward, questions I was hoping to get an answer to. These are not necessarily critical pieces, and we only expect you to provide what you can, but may add some useful context or background to our review.

1. Can NB Power confirm that the Project would involve “*the construction, operation, and decommissioning*” of an ARC SMR demonstration unit? I’m pretty sure that is indeed the case, but I want to ensure NB Power is comfortable with this wording as it is phrasing we frequently use in describing proposed physical activities, as applicable.

**NB Power confirms that the project would involve the construction, operation and decommissioning. The CNSC licensing process has the licensee evaluate the site for the entire lifecycle of the facility.**

2. What is the approximate expected operating life of the ARC SMR? Based on information provided, I understand NB Power is planning on 3 fuel loads, each lasting approximately 20 years. Accordingly, I estimated it would be in operation for approximately 60 years. Can you confirm this, or provide a better approximation? Would the SMR go “offline” for a period during re-fueling?

**NB Power confirms that the approximate expected life of the ARC SMR is 60 years. The “offline”(Outage) time is an estimation with the information we have today. Estimate of a 30 day maintenance outage every 5 years and a 60 day refueling outage every 20 years.**

3. Based on Google Earth, it looks like the footprint of the ARC SMR at Point Lepreau is already mostly cleared. Can you confirm if that is the case and if any additional clearing activity would be required?

**The footprint is a cleared piece of land, additional clearing may be required depending on the exact location that is not yet finalized.**

4. Approximately how large is the licensed area of the Point Lepreau Nuclear Facility? And, if known, what is the approximate footprint of the existing facilities at Point Lepreau?

The licensed area of the Point Lepreau Nuclear facility includes the Security Protected Areas for the power plant and the onsite waste facility protected area along with the Security Controlled Area in approximately 5 square kilometers. The PLNGS protected area is 122687 m<sup>2</sup> and the PLNGS plant footprint is 15955 m<sup>2</sup>, the Waste Facility is 30384 m<sup>2</sup>.

Hopefully the above is clear. I'm happy to chat if you have any questions.

Thanks in advance,

Joe

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