



Natural Resources
Canada

Ressources naturelles
Canada

ATIP Secretariat
580 Booth Street, 11th Floor
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Secrétariat de l'AIPRP
580, rue Booth, 11^e étage
Ottawa ON K1A 0E4
Télécopieur: (613) 995-0693

Our file: A-2024-00053 /TR

March 31, 2025

Dear Susan O'Donnell:

RE: Access to Information Act request

This is in response to your above-referenced request under the *Access to Information Act*, received on April 19, 2024, which reads as follows:

“Provide all communications, including attachments, received by the Minister, Deputy Minister, Assistant Deputy Minister, Director Generals or Directors with respect to the "recycling" or "reprocessing" or re-use of nuclear fuel waste (irradiated nuclear fuel, used fuel, spent fuel, CANDU fuel) for any purpose received between January 1, 2023, and April 19, 2024. Include communications within the department and those received from other federal departments, Crown agencies, regulatory bodies and contracted entities, and any private sector entity or agent including but not limited to the Canadian Nuclear Society, Canadian Nuclear Association, CANDU Owners Group or others, and any non-governmental organization or educational institution or individual.”

Please find enclosed the information you requested that is accessible under the *Access to Information Act*. You will notice that certain information has been withheld from disclosure in accordance with the exemptions and exclusions described in sections 13(1)(a)(b)(c), 15(1) I.A., 16(2), 19(1), 20(1)(b)(c), 21(1)(a)(b)(d) and 69(1)(g) re (a)(c) of the *Act*. We have enclosed the texts of these sections of the *Act* for your information.

.../2

Please be advised that you are entitled to complain to the Information Commissioner concerning the processing of your request within 60 days after the day you become aware that grounds for a complaint exist. In the event you decide to avail yourself of this right, your notice of complaint should be addressed to:

The Information Commissioner of Canada
30 Victoria Street
Gatineau, Quebec K1A 1H3
Telephone: (613) 995-2410 (National Capital Region)
1-800-267-0441 (Toll-free)

Should you have any questions regarding this response, please do not hesitate to contact Tara Rapley at 343-543-4096 or by e-mail at tara.rapley@nrcan-rncan.gc.ca.

Sincerely yours,

for *Nikolina Vaskovic*

Ami Najm
Director
Access to Information and Privacy

Enclosures: Pages 1 to 1201

Access to Information Act

Exemptions and Exclusions

13(1)(a) GOVERNMENT OF A FOREIGN STATE

(a) the government of a foreign state or an institution thereof;

13(1)(b) AN INTERNATIONAL ORGANIZATION

(b) an international organization of states or an institution thereof;

13(1)(c) GOVERNMENT OF A PROVINCE

(c) the government of a province or an institution thereof; or

15(1) I.A. INTERNATIONAL AFFAIRS

The head of a government institution may refuse to disclose any record requested under this Act that contains information the disclosure of which could reasonably be expected to be injurious to the conduct of international affairs.

16(2) SECURITY

16. (2) The head of a government institution may refuse to disclose any record requested under this Act that contains information that could reasonably be expected to facilitate the commission of an offence, including, without restricting the generality of the foregoing, any such information

19(1) PERSONAL INFORMATION

19. (1) Subject to subsection (2), the head of a government institution shall refuse to disclose any record requested under this Act that contains personal information as defined in section 3 of the Privacy Act.

20(1)(b) FINANCIAL, COMMERCIAL, SCIENTIFIC OR TECHNICAL INFORMATION GIVEN IN CONFIDENCE TO THE GOVERNMENT AND TREATED IN A CONSISTENTLY IN A CONFIDENTIAL MANNER BY THE THIRD PARTY

(b) financial, commercial, scientific or technical information that is confidential information supplied to a government institution by a third party and is treated consistently in a confidential manner by the third party;

20(1)(c) INFORMATION THAT COULD RESULT IN A FINANCIAL LOSS OR GAIN

(c) information the disclosure of which could reasonably be expected to result in material financial loss or gain to, or could reasonably be expected to prejudice the competitive position of, a third party; or

21(1)(a) ADVICE OR RECOMMENDATIONS

(a) advice or recommendations developed by or for a government institution or a minister of the Crown;

21(1)(b) CONSULTATIONS OR DELIBERATIONS

(b) an account of consultations or deliberations involving officers or employees of a government institution, a minister of the Crown or the staff of a minister of the Crown,

21(1)(d) PLANS RELATING TO THE MANAGEMENT OF PERSONNEL OR THE ADMINISTRATION OF A GOVERNMENT INSTITUTION THAT HAVE NOT YET BEEN PUT INTO OPERATION

(d) plans relating to the management of personnel or the administration of a government institution that have not yet been put into operation,

69(1)(g) re (a) ANY RECORDS MAKING A REFERENCE TO (A)



Records that contain information about the contents of any record within a class of records referred to in paragraphs (a).

69(1)(g) re (c) ANY RECORDS MAKING A REFERENCE TO (C)

Records that contain information about the contents of any record within a class of records referred to in paragraphs (c).

FW: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts

April 29, 2024 10:17 AM

Subject	FW: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts
From	Wilkinson, David
To	Ottaway, Chelsea
Cc	Yuen, Pui Wai
Sent	November 28, 2023 1:28 PM
Attachments	 FW A06255-2...  {D2023-11-27T14-15...

Hello,

Following up on your chat with PW. The two Min responses in question are highlighted below (very similar numbers). If they can simply be resent, that is best, and then confirmation to us so we know and can follow-up accordingly with [REDACTED]

Thanks,

David Wilkinson

Senior Advisor – Radioactive Waste Policy / Conseiller principal – Politique sur les déchets radioactifs
 Uranium and Radioactive Waste Division / Division de l'uranium et des déchets radioactifs
 Natural Resources Canada / Ressources naturelles Canada

From: Wilkinson, David

Sent: Tuesday, November 28, 2023 12:32 PM

To: Hilborn, Jade (she, her | elle, elle) <jade.hilborn@nrcan-rncan.gc.ca>

Cc: Wittmann, Tess (she, her | elle, elle) <tess.wittmann@nrcan-rncan.gc.ca>; Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>

Subject: RE: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts

Hello,

So it looks like we have 1) Signed response from Min O'Regan on August 13, 2021, attached (192468), provided by Chantal yesterday; 2) Signed response from Min Wilkinson on January 5, 2022, attached (194268); and 3) the most recent response from our ADM dated November 2, 2023 (203954). We have an actual email trail for the recent ADM reply, because the outgoing email with attached PDF response is copied to the docket folder.

Is there any way to obtain the actual outgoing email for the two Min-level responses, so we know in

fact that the Min signed letters were emailed to [REDACTED] and co-signatories say they've never received the two previous Min replies.

Thanks,

David Wilkinson

Senior Advisor – Radioactive Waste Policy / Conseiller principal – Politique sur les déchets radioactifs
Uranium and Radioactive Waste Division / Division de l'uranium et des déchets radioactifs
Natural Resources Canada / Ressources naturelles Canada

From: Hilborn, Jade (she, her | elle, elle) <jade.hilborn@nrcan-rncan.gc.ca>

Sent: Monday, November 27, 2023 2:30 PM

To: Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>

Cc: Wittmann, Tess (she, her | elle, elle) <tess.wittmann@nrcan-rncan.gc.ca>; Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>

Subject: RE: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts

UNCLASSIFIED - NON CLASSIFIÉ

Chantal says looks like it was sent. Signed letter attached.

From: Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>

Sent: Monday, November 27, 2023 1:31 PM

To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>

Cc: Hilborn, Jade (she, her | elle, elle) <jade.hilborn@nrcan-rncan.gc.ca>; Wittmann, Tess (she, her | elle, elle) <tess.wittmann@nrcan-rncan.gc.ca>; Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>

Subject: RE: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts

UNCLASSIFIED - NON CLASSIFIÉ

Hi Pui Wai,

The response must have been resent on Nov 20, after Tess updated it to add the co-signatories. Hence why [REDACTED] has received it. Either way, it looks like they've received it, which is great.

In my last email I requested that Jade look into the system to confirm if the 2021 response was ever sent out, but I also indicated that it looks like it was not based on the folder not having a min signed version. Assuming Jade confirms it was never sent, please see draft response below.

Dave

Good afternoon [REDACTED] Susan and [REDACTED]

Thank you for confirming receipt of the response from our Assistant Deputy Minister's Office. Regretfully, it seems that no earlier response on the topic was provided in regards to the letter from 2021. The response you received on November 20 should be considered applicable to both instances. Please accept my apologies.

Sincerely,

A0072490_2-001100

[pw signature]

From: [REDACTED]

Sent: 27 novembre 2023 12:23

To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Tanya.Hinton@international.gc.ca

Cc: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>; [REDACTED]

[REDACTED] Susan O'Donnell <susanodo.ca@gmail.com>

Subject: Re: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts

*****Caution** - email originated from outside of NRCan. **Read the warning below / Attention-** Ce courriel provient de l'extérieur des RNCan. **Voir la mise en garde ci-dessous*****

Good morning Pui Wai and Tanya Hinton et al. -

This is to inform you that the letter from NRCan dated November 20 2023 was indeed received by [REDACTED] and cosignatories, in response to the letter sent to the Prime Minister earlier this year on September 22, 2023.

There is as yet no record of the earlier letter from NRCan responding to the three 2021 letters from [REDACTED] and a smaller number of cosignatories. It is quite possible that that letter ended up being filtered out by their email software as "suspicious".

Cheers,

[REDACTED]

On Nov 27, 2023, at 5:01 AM, Susan O'Donnell <susanodo.ca@gmail.com> wrote:

Good morning Pui Wai and colleagues,

I'm following up on a point raised during our zoom meeting on November 17. [REDACTED] will be sending out notes and official follow-up in due course.

I appreciate your engagement, Pui Wai, Kathleen and Tanya on the reprocessing topic. As I mentioned at the meeting, what most concerns me is the lack of transparency by the government / public service about the risks of reprocessing. Canadians need to understand both the risks and the perceived benefits to be able to make informed opinions about it.

Pui Wai, at the meeting [REDACTED] asked about the open letters to the PM from [REDACTED] and colleagues in the U.S. raising concerns about the Moltex project and reprocessing. You stated that NRCan had responded twice to those letters. I mentioned that I had communicated with [REDACTED] who had not received a response. Last week I checked again and he confirmed that he had not received a response.

We invited [REDACTED] to our Nov. 17 meeting but he was unable to attend. I'm cc'ing him here along with [REDACTED] who signed the last open letter and who were able to attend the meeting. I've also cc'd [REDACTED] who was also at the meeting and is communicating with me about this.

Pui Wai you seemed certain that NRCan did respond to those open letters; by sending this email I'm not trying to put you on the spot but rather to clear up what's obviously a miscommunication. The letters that NRCan sent did not reach the intended recipient so something went awry somewhere.

If the NRCan responses were open letters could you please send them to us by reply email. If they were sent personally to [REDACTED] could you please resend to him and he can forward them to us if he so wishes.

Thanks everyone for your engagement on this important topic.

Susan

Coalition for Responsible Energy Development in New Brunswick (CRED-NB)

Susan O'Donnell, PhD
Adjunct Research Professor
Lead investigator, the [CEDAR](#) project
Environment and Society Program
St. Thomas University
Fredericton, New Brunswick, Canada
susanodo.ca@gmail.com

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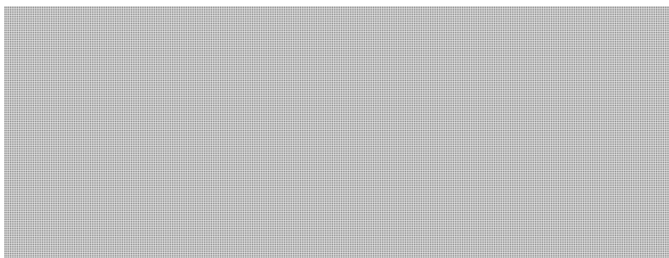
Minister
of Natural Resources



Ministre
des Ressources naturelles

Ottawa, Canada K1A 0E4

August 13, 2021



Dear [REDACTED] and Co-signatories:

The Prime Minister's Office has forwarded to me a copy of your correspondence of May 25, 2021, regarding Canadian support for extracting plutonium from spent nuclear fuel.

We cannot lose focus nor lose ground on the growing threat that climate change presents to the planet and to the health and livelihoods of all Canadians. For this reason, on December 11, 2020, the Government released A Healthy Environment and a Healthy Economy, the federal plan to build a better future. This plan builds on the work done to date and efforts that are underway and continues down the path that Canadians, governments, and businesses have been setting. It is a key pillar in our commitment to creating over one million jobs, restoring employment to pre-pandemic levels, and climate action and clean growth are a cornerstone of this commitment.

The climate plan includes a wide array of measures and investments in renewable and next-generation technologies. This includes technologies that will bring more clean and non-emitting power onto our grids, encourage cleaner modes of transportation such as zero-emission vehicles and transit, and make our homes and businesses more energy efficient.

Budget 2021, released in April 2021, is a plan for a green recovery. It is a plan that fights climate change, helps more than 200,000 Canadians make their homes greener, and builds a net-zero economy by investing in world-leading technologies that make industry cleaner and reduce pollution. It also helps Canada reach its goal of conserving 25% of our lands and oceans by 2025 and creates good middle-class jobs in the green economy along the way.

Canada

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The Government of Canada is also working closely with partners to advance the safe development of small modular reactor (SMR) technology. Canada has a long history of safe and responsible development of nuclear energy, which plays an important role in Canada's current energy mix. Nuclear energy accounts for 15% of our current supply of electricity, including approximately 60% of our supply in Ontario and approximately 40% in New Brunswick. The sector also contributes approximately \$17 billion per year to Canada's gross domestic product and accounts for 76,000 jobs across the country, including over 200 small- and medium-sized enterprises.

SMRs represent a new field of innovation and a potential tool to reduce emissions and create jobs and economic growth. Several provincial governments, including New Brunswick, Ontario, Alberta, and Saskatchewan, as well as Indigenous communities and organizations, have expressed a clear interest in using SMR technologies to reduce their greenhouse gas emissions, decarbonize heavy industry, and spur economic development. The Government of Canada is working closely with these partners and like-minded countries such as the United States and the United Kingdom to capitalize on this important opportunity. In fact, in December 2020, the Government launched Canada's SMR Action Plan, which outlines a series of concrete actions that over 100 partners are taking to advance the development of SMR technologies.

I remain encouraged by the strong interest and collaboration that I have seen among governments and stakeholders in advancing new nuclear technologies, and I believe that the Government of Canada's efforts are helping to position Canada as a global leader in the safe and responsible development of nuclear energy.

Thank you for sharing your views on one of these new technologies. The pathway to net-zero emissions by 2050 is the challenge of our time. To be successful, we must consider all potential options and solutions emerging from across the different energy sectors, and we appreciate hearing your perspectives on this important issue.

The Government of Canada is receptive to exploring the science, benefits, and risks associated with potential technologies that could recycle used nuclear fuel in a safe, secure and environmentally sustainable way while meeting Canada's non-proliferation obligations. Reprocessing used CANDU fuel, as proposed by Moltex Energy, has the potential to power existing and future nuclear reactors while reducing the volume and long-term radioactivity of waste that would need to be disposed of in a deep geological repository. If this technology proves viable, it would allow Canada to extract energy further from a used resource, potentially providing Canadians with emissions-free energy for years to come while reducing long-lived radioactive waste.

Canada's investment in Moltex at this early stage in the development of the technology is meant to enable research that will allow for a better understanding of both the benefits and risks of its new proposed reprocessing technology. The investment at this stage anticipates whether such technology will receive regulatory approval.

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Canada remains committed to the Treaty on the Non-Proliferation of Nuclear Weapons, including the full implementation of safeguards set by the International Atomic Energy Agency to provide assurances that nuclear materials are used solely for peaceful purposes in Canada.

Canada acknowledges that nuclear reprocessing is a sensitive technology and remains attentive to the need to ensure that reprocessing technologies do not negatively affect our shared nuclear non-proliferation priorities. Any potential reprocessing of used nuclear fuel in Canada would be subject to the Canadian regulatory framework under the *Nuclear Safety and Control Act* as well as safeguards verification by the International Atomic Energy Agency.

Thank you for writing.

Yours sincerely,



The Honourable Seamus O'Regan Jr., P.C., M.P.

Minister
of Natural Resources



Ministre
des Ressources naturelles

Ottawa, Canada K1A 0E4

January 5, 2022



Dear 

The Prime Minister's Office has forwarded to me a copy of your correspondence of December 3, 2021, regarding plutonium separation from CANDU spent fuel. Thank you for taking the time to write.

As the former Minister of Natural Resources indicated in his response of August 13, 2021, to your previous correspondence, our climate plan includes an array of measures and investments in renewable and next-generation technologies, including technologies that will bring more clean, non-emitting power onto our grids, encourage cleaner modes of transportation such as zero-emission vehicles and transit, and make our homes, businesses, and industries more energy-efficient.

As part of this plan, the Government of Canada is working closely with partners to ensure that any future development of Small Modular Reactor technology can be done safely. Canada has a long history of safe and responsible development of nuclear energy, which plays an important role in Canada's current energy mix. Small Modular Reactors represent a new field of innovation and a potential tool to reduce emissions while creating jobs and stimulating economic growth. Several provincial governments, including New Brunswick, Ontario, Alberta and Saskatchewan, as well as Indigenous communities and organizations, have expressed a clear interest in using Small Modular Reactor technologies to reduce their greenhouse gas emissions, decarbonize heavy industry and spur economic development.

The Government of Canada is also working closely with like-minded countries such as the United States and the United Kingdom to realize this important opportunity for Canada. The strong interest and collaboration among governments and stakeholders in advancing new nuclear technologies, while ensuring international non-proliferation norms are respected, is encouraging. The Government of Canada's efforts position Canada as a global leader in the safe and responsible development of nuclear energy, with nuclear safety, security and non-proliferation as our guiding principles.

Canada 

The Government of Canada is receptive to exploring the science, benefits, and risks associated with potential technologies that could recycle used nuclear fuel in a safe, secure and environmentally sustainable way. Intergovernmental consultations on the implications of commercial reprocessing, including for non-proliferation, are ongoing.

The reprocessing of used CANDU fuel, as proposed by Moltex, has the potential to power existing and future nuclear reactors while potentially reducing the volume and long-term radioactivity of waste that would need to be disposed of in a deep geological repository. If this technology proves viable, it would allow Canada to extract additional energy from a used resource, potentially providing Canadians with emissions-free energy for years to come while reducing long-lived radioactive waste. Canada's investment in Moltex enables research that will allow a better understanding of the technology, including both benefits and risks that must be considered as part of any policy approval by the Government of Canada on reprocessing.

We recognize that nuclear reprocessing is a technology that raises sensitive non-proliferation concerns. The international community, including Canada, remains attentive to ensuring that reprocessing technologies do not negatively impact our shared nuclear non-proliferation priorities. Any potential reprocessing of used nuclear fuel in Canada would be subject to the Canadian regulatory framework under the *Nuclear Safety and Control Act*, in line with our multilateral engagements with the Nuclear Suppliers Group, as well as rigorous safeguards verification by the International Atomic Energy Agency.

Canada remains committed to the Treaty on the Non-Proliferation of Nuclear Weapons, including the full implementation of International Atomic Energy Agency safeguards to provide assurances that nuclear materials and technology are used solely for peaceful purposes.

The pathway to net zero by 2050 is the challenge of our time. To be successful, we must consider all potential options and solutions emerging from across the different energy sectors. We appreciate hearing your perspectives on these important issues.

Yours sincerely,



The Honourable Jonathan Wilkinson, P.C., M.P.

c.c.: **Distribution**

Canada

- 3 -

c.c.: **Distribution**



The Honourable Mélanie Joly, P.C., M.P.
Minister of Foreign Affairs
melanie.joly@international.gc.ca

The Honourable Steven Guilbeault, P.C., M.P.
Minister of Environment and Climate Change
ministre-minister@ec.gc.ca

Canada 

FW: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts

April 29, 2024 10:30 AM

Subject	FW: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts
From	Yuen, Pui Wai
To	Prosser, Kathleen; Wilkinson, David
Sent	December 1, 2023 5:39 PM
Attachments	 REPLY TO YOUR CO...  REPLY TO YOUR CO...

UNCLASSIFIED - NON CLASSIFIÉ

Fyi – I BCCed Tanya on this email.

From: Yuen, Pui Wai

Sent: 1 décembre 2023 17:36

To: [REDACTED]

Cc: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>

Subject: RE: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts

Dear [REDACTED]

Thank you for your follow-up. We are pleased to have received confirmation from [REDACTED] that the recent response from our Assistant Deputy Minister's Office on reprocessing was received in reply to your September 22, 2023, letter.

We have also been able to confirm that two previous responses on the topic of reprocessing were sent to you from our Minister's Office on August 13, 2021, from Minister O'Regan, and on January 5, 2022, from Minister Wilkinson, both of which were sent to your incoming email address –

[REDACTED] We are resending these to you, as attached. Please kindly confirm receipt.

Since the responses were sent to you personally, we will leave it with you should you wish to forward them to other interested parties.

Thank you for your patience.

Sincerely,
Pui Wai

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s.19(1)

Pui Wai Yuen

Director | Directrice

Uranium and Radioactive Waste Division | Division de l'uranium et des déchets radioactifs
Nuclear Energy & Infrastructure Security Branch | Direction de l'énergie nucléaire et de la sécurité
des infrastructures

Natural Resources Canada | Ressources naturelles Canada

puiwai.yuen@nrcan-rncan.gc.ca

Tel: 613-218-5067

From: [REDACTED]

Sent: 27 novembre 2023 08:29

To: Susan O'Donnell <susanodo.ca@gmail.com>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>

Cc: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>; Tanya.Hinton@international.gc.ca;

Subject: Re: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts

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dessous***

Thanks, Susan!

I look forward to receiving copies of the letters to me from Natural Resources Canada and will share them with the other US signatories of the three letters from US nonproliferation experts to Prime Minister Trudeau.

With very best regards,

From: Susan O'Donnell <susanodo.ca@gmail.com>

Date: Monday, November 27, 2023 at 5:01 AM

To: "Yuen, Pui Wai" <puiwai.yuen@nrcan-rncan.gc.ca>

Cc: "Prosser, Kathleen" <Kathleen.Prosser@nrcan-rncan.gc.ca>,

"Tanya.Hinton@international.gc.ca" <Tanya.Hinton@international.gc.ca>, [REDACTED]

Subject: Q re response(s) from NRCan to open letter to PM Trudeau re reprocessing from U.S. experts

Good morning Pui Wai and colleagues,

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[REDACTED] will be sending out notes and official follow-up in due course.

I appreciate your engagement, Pui Wai, Kathleen and Tanya on the reprocessing topic. As I

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mentioned at the meeting, what most concerns me is the lack of transparency by the government / public service about the risks of reprocessing. Canadians need to understand both the risks and the perceived benefits to be able to make informed opinions about it.

Pui Wai, at the meeting [REDACTED] asked about the open letters to the PM from [REDACTED] and colleagues in the U.S. raising concerns about the Moltex project and reprocessing. You stated that NRCAN had responded twice to those letters. I mentioned that I had communicated with [REDACTED] who had not received a response. Last week I checked again and he confirmed that he had not received a response.

We invited [REDACTED] to our Nov. 17 meeting but he was unable to attend. I'm cc'ing him here along with [REDACTED] who signed the last open letter and who were able to attend the meeting. I've also cc'd [REDACTED] who was also at the meeting and is communicating with me about this.

Pui Wai you seemed certain that NRCAN did respond to those open letters; by sending this email I'm not trying to put you on the spot but rather to clear up what's obviously a miscommunication. The letters that NRCAN sent did not reach the intended recipient so something went awry somewhere.

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Thanks everyone for your engagement on this important topic.

Susan

Coalition for Responsible Energy Development in New Brunswick (CRED-NB)

Susan O'Donnell, PhD
Adjunct Research Professor
Lead investigator, the [CEDAR](#) project
Environment and Society Program
St. Thomas University
Fredericton, New Brunswick, Canada
susanodo.ca@gmail.com

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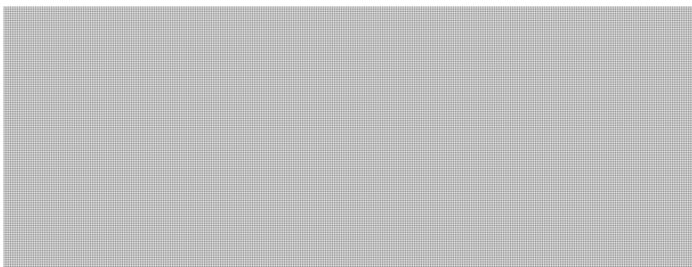
Minister
of Natural Resources



Ministre
des Ressources naturelles

Ottawa, Canada K1A 0E4

August 13, 2021



Dear [REDACTED] and Co-signatories:

The Prime Minister's Office has forwarded to me a copy of your correspondence of May 25, 2021, regarding Canadian support for extracting plutonium from spent nuclear fuel.

We cannot lose focus nor lose ground on the growing threat that climate change presents to the planet and to the health and livelihoods of all Canadians. For this reason, on December 11, 2020, the Government released A Healthy Environment and a Healthy Economy, the federal plan to build a better future. This plan builds on the work done to date and efforts that are underway and continues down the path that Canadians, governments, and businesses have been setting. It is a key pillar in our commitment to creating over one million jobs, restoring employment to pre-pandemic levels, and climate action and clean growth are a cornerstone of this commitment.

The climate plan includes a wide array of measures and investments in renewable and next-generation technologies. This includes technologies that will bring more clean and non-emitting power onto our grids, encourage cleaner modes of transportation such as zero-emission vehicles and transit, and make our homes and businesses more energy efficient.

Budget 2021, released in April 2021, is a plan for a green recovery. It is a plan that fights climate change, helps more than 200,000 Canadians make their homes greener, and builds a net-zero economy by investing in world-leading technologies that make industry cleaner and reduce pollution. It also helps Canada reach its goal of conserving 25% of our lands and oceans by 2025 and creates good middle-class jobs in the green economy along the way.

Canada

The Government of Canada is also working closely with partners to advance the safe development of small modular reactor (SMR) technology. Canada has a long history of safe and responsible development of nuclear energy, which plays an important role in Canada's current energy mix. Nuclear energy accounts for 15% of our current supply of electricity, including approximately 60% of our supply in Ontario and approximately 40% in New Brunswick. The sector also contributes approximately \$17 billion per year to Canada's gross domestic product and accounts for 76,000 jobs across the country, including over 200 small- and medium-sized enterprises.

SMRs represent a new field of innovation and a potential tool to reduce emissions and create jobs and economic growth. Several provincial governments, including New Brunswick, Ontario, Alberta, and Saskatchewan, as well as Indigenous communities and organizations, have expressed a clear interest in using SMR technologies to reduce their greenhouse gas emissions, decarbonize heavy industry, and spur economic development. The Government of Canada is working closely with these partners and like-minded countries such as the United States and the United Kingdom to capitalize on this important opportunity. In fact, in December 2020, the Government launched Canada's SMR Action Plan, which outlines a series of concrete actions that over 100 partners are taking to advance the development of SMR technologies.

I remain encouraged by the strong interest and collaboration that I have seen among governments and stakeholders in advancing new nuclear technologies, and I believe that the Government of Canada's efforts are helping to position Canada as a global leader in the safe and responsible development of nuclear energy.

Thank you for sharing your views on one of these new technologies. The pathway to net-zero emissions by 2050 is the challenge of our time. To be successful, we must consider all potential options and solutions emerging from across the different energy sectors, and we appreciate hearing your perspectives on this important issue.

The Government of Canada is receptive to exploring the science, benefits, and risks associated with potential technologies that could recycle used nuclear fuel in a safe, secure and environmentally sustainable way while meeting Canada's non-proliferation obligations. Reprocessing used CANDU fuel, as proposed by Moltex Energy, has the potential to power existing and future nuclear reactors while reducing the volume and long-term radioactivity of waste that would need to be disposed of in a deep geological repository. If this technology proves viable, it would allow Canada to extract energy further from a used resource, potentially providing Canadians with emissions-free energy for years to come while reducing long-lived radioactive waste.

Canada's investment in Moltex at this early stage in the development of the technology is meant to enable research that will allow for a better understanding of both the benefits and risks of its new proposed reprocessing technology. The investment at this stage anticipates whether such technology will receive regulatory approval.

- 3 -

Canada remains committed to the Treaty on the Non-Proliferation of Nuclear Weapons, including the full implementation of safeguards set by the International Atomic Energy Agency to provide assurances that nuclear materials are used solely for peaceful purposes in Canada.

Canada acknowledges that nuclear reprocessing is a sensitive technology and remains attentive to the need to ensure that reprocessing technologies do not negatively affect our shared nuclear non-proliferation priorities. Any potential reprocessing of used nuclear fuel in Canada would be subject to the Canadian regulatory framework under the *Nuclear Safety and Control Act* as well as safeguards verification by the International Atomic Energy Agency.

Thank you for writing.

Yours sincerely,



The Honourable Seamus O'Regan Jr., P.C., M.P.

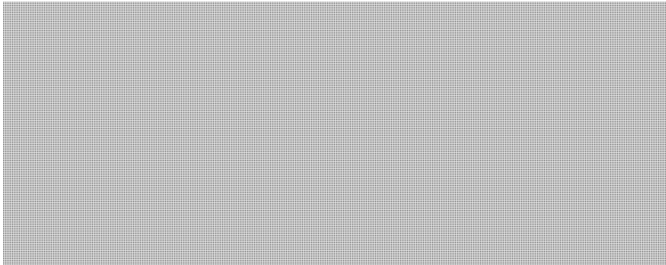
Minister
of Natural Resources



Ministre
des Ressources naturelles

Ottawa, Canada K1A 0E4

August 13, 2021



Dear [REDACTED] and Co-signatories:

The Prime Minister's Office has forwarded to me a copy of your correspondence of May 25, 2021, regarding Canadian support for extracting plutonium from spent nuclear fuel.

We cannot lose focus nor lose ground on the growing threat that climate change presents to the planet and to the health and livelihoods of all Canadians. For this reason, on December 11, 2020, the Government released A Healthy Environment and a Healthy Economy, the federal plan to build a better future. This plan builds on the work done to date and efforts that are underway and continues down the path that Canadians, governments, and businesses have been setting. It is a key pillar in our commitment to creating over one million jobs, restoring employment to pre-pandemic levels, and climate action and clean growth are a cornerstone of this commitment.

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Canada

- 2 -

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SMRs represent a new field of innovation and a potential tool to reduce emissions and create jobs and economic growth. Several provincial governments, including New Brunswick, Ontario, Alberta, and Saskatchewan, as well as Indigenous communities and organizations, have expressed a clear interest in using SMR technologies to reduce their greenhouse gas emissions, decarbonize heavy industry, and spur economic development. The Government of Canada is working closely with these partners and like-minded countries such as the United States and the United Kingdom to capitalize on this important opportunity. In fact, in December 2020, the Government launched Canada's SMR Action Plan, which outlines a series of concrete actions that over 100 partners are taking to advance the development of SMR technologies.

I remain encouraged by the strong interest and collaboration that I have seen among governments and stakeholders in advancing new nuclear technologies, and I believe that the Government of Canada's efforts are helping to position Canada as a global leader in the safe and responsible development of nuclear energy.

Thank you for sharing your views on one of these new technologies. The pathway to net-zero emissions by 2050 is the challenge of our time. To be successful, we must consider all potential options and solutions emerging from across the different energy sectors, and we appreciate hearing your perspectives on this important issue.

The Government of Canada is receptive to exploring the science, benefits, and risks associated with potential technologies that could recycle used nuclear fuel in a safe, secure and environmentally sustainable way while meeting Canada's non-proliferation obligations. Reprocessing used CANDU fuel, as proposed by Moltex Energy, has the potential to power existing and future nuclear reactors while reducing the volume and long-term radioactivity of waste that would need to be disposed of in a deep geological repository. If this technology proves viable, it would allow Canada to extract energy further from a used resource, potentially providing Canadians with emissions-free energy for years to come while reducing long-lived radioactive waste.

Canada's investment in Moltex at this early stage in the development of the technology is meant to enable research that will allow for a better understanding of both the benefits and risks of its new proposed reprocessing technology. The investment at this stage anticipates whether such technology will receive regulatory approval.

- 3 -

Canada remains committed to the Treaty on the Non-Proliferation of Nuclear Weapons, including the full implementation of safeguards set by the International Atomic Energy Agency to provide assurances that nuclear materials are used solely for peaceful purposes in Canada.

Canada acknowledges that nuclear reprocessing is a sensitive technology and remains attentive to the need to ensure that reprocessing technologies do not negatively affect our shared nuclear non-proliferation priorities. Any potential reprocessing of used nuclear fuel in Canada would be subject to the Canadian regulatory framework under the *Nuclear Safety and Control Act* as well as safeguards verification by the International Atomic Energy Agency.

Thank you for writing.

Yours sincerely,



The Honourable Seamus O'Regan Jr., P.C., M.P.

Minister
of Natural Resources



Ministre
des Ressources naturelles

Ottawa, Canada K1A 0E4

January 5, 2022



Dear [REDACTED]

The Prime Minister's Office has forwarded to me a copy of your correspondence of December 3, 2021, regarding plutonium separation from CANDU spent fuel. Thank you for taking the time to write.

As the former Minister of Natural Resources indicated in his response of August 13, 2021, to your previous correspondence, our climate plan includes an array of measures and investments in renewable and next-generation technologies, including technologies that will bring more clean, non-emitting power onto our grids, encourage cleaner modes of transportation such as zero-emission vehicles and transit, and make our homes, businesses, and industries more energy-efficient.

As part of this plan, the Government of Canada is working closely with partners to ensure that any future development of Small Modular Reactor technology can be done safely. Canada has a long history of safe and responsible development of nuclear energy, which plays an important role in Canada's current energy mix. Small Modular Reactors represent a new field of innovation and a potential tool to reduce emissions while creating jobs and stimulating economic growth. Several provincial governments, including New Brunswick, Ontario, Alberta and Saskatchewan, as well as Indigenous communities and organizations, have expressed a clear interest in using Small Modular Reactor technologies to reduce their greenhouse gas emissions, decarbonize heavy industry and spur economic development.

The Government of Canada is also working closely with like-minded countries such as the United States and the United Kingdom to realize this important opportunity for Canada. The strong interest and collaboration among governments and stakeholders in advancing new nuclear technologies, while ensuring international non-proliferation norms are respected, is encouraging. The Government of Canada's efforts position Canada as a global leader in the safe and responsible development of nuclear energy, with nuclear safety, security and non-proliferation as our guiding principles.

Canada

The Government of Canada is receptive to exploring the science, benefits, and risks associated with potential technologies that could recycle used nuclear fuel in a safe, secure and environmentally sustainable way. Intergovernmental consultations on the implications of commercial reprocessing, including for non-proliferation, are ongoing.

The reprocessing of used CANDU fuel, as proposed by Moltex, has the potential to power existing and future nuclear reactors while potentially reducing the volume and long-term radioactivity of waste that would need to be disposed of in a deep geological repository. If this technology proves viable, it would allow Canada to extract additional energy from a used resource, potentially providing Canadians with emissions-free energy for years to come while reducing long-lived radioactive waste. Canada's investment in Moltex enables research that will allow a better understanding of the technology, including both benefits and risks that must be considered as part of any policy approval by the Government of Canada on reprocessing.

We recognize that nuclear reprocessing is a technology that raises sensitive non-proliferation concerns. The international community, including Canada, remains attentive to ensuring that reprocessing technologies do not negatively impact our shared nuclear non-proliferation priorities. Any potential reprocessing of used nuclear fuel in Canada would be subject to the Canadian regulatory framework under the *Nuclear Safety and Control Act*, in line with our multilateral engagements with the Nuclear Suppliers Group, as well as rigorous safeguards verification by the International Atomic Energy Agency.

Canada remains committed to the Treaty on the Non-Proliferation of Nuclear Weapons, including the full implementation of International Atomic Energy Agency safeguards to provide assurances that nuclear materials and technology are used solely for peaceful purposes.

The pathway to net zero by 2050 is the challenge of our time. To be successful, we must consider all potential options and solutions emerging from across the different energy sectors. We appreciate hearing your perspectives on these important issues.

Yours sincerely,



The Honourable Jonathan Wilkinson, P.C., M.P.

c.c.: **Distribution**

Canada

- 3 -

c.c.: **Distribution**

The Honourable Mélanie Joly, P.C., M.P.
Minister of Foreign Affairs
melanie.joly@international.gc.ca

The Honourable Steven Guilbeault, P.C., M.P.
Minister of Environment and Climate Change
ministre-minister@ec.gc.ca

Canada

PM Trudeau: Ban the Reprocessing of Nuclear Fuel Waste

April 29, 2024 12:14 PM

Subject	PM Trudeau: Ban the Reprocessing of Nuclear Fuel Waste
From	
To	Hannaford, John
Sent	April 30, 2023 4:52 PM

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Dear Deputy Minister John Hannaford,
Dear Prime Minister Trudeau,

Canada is in the process of finalizing a new national policy on radioactive waste. The 2022 draft policy issued by Natural Resources Canada stated that the deployment of reprocessing technology in Canada, in order to extract plutonium from used nuclear fuel, would be "subject to policy approval" – but did not set out what that policy might be.

This is a policy vacuum that must be addressed.

Reprocessing nuclear waste results in the separation of plutonium. Since plutonium is one of the most widely used primary nuclear explosive material in the world's nuclear arsenals, non-proliferation experts are agreed that ready access to plutonium must be discouraged, and prevented where possible.

We call on the government of Canada to explicitly ban plutonium reprocessing in Canada.
Sincerely,

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FW: [External/Externe]: Reprocessing Working Group Kick-Off Meeting

April 29, 2024 1:00 PM

Subject	FW: [External/Externe]: Reprocessing Working Group Kick-Off Meeting
From	Yuen, Pui Wai
To	Wittmann, Tess (she, her elle, elle)
Cc	Fairchild, Jamie; Hilborn, Jade (she, her elle, elle)
Sent	April 9, 2024 11:12 AM

UNCLASSIFIED - NON CLASSIFIÉ

Let's discuss when you get back Tess.

I can't recall if I forwarded you the email below from February – I may have missed it. Sorry about that.

Thanks,
PW

From: Daigle, Daniel (TC/TC) <Daniel.Daigle@tc.gc.ca>
Sent: Tuesday, April 9, 2024 11:00 AM
To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Subject: RE: [External/Externe]: Reprocessing Working Group Kick-Off Meeting

Good morning,

I did not hear from you following my email below, and I noticed the work plan discussion table (item 4) of the kick-off meeting summary does not show TC anywhere. Could you confirm whether this is because transport is out of the scope for each of these topics? Do you think my participation could be valuable for any of the topics, such as "Domestic Regulatory Environment"?

Thank you

Daniel Daigle, B.Sc.A.

Analyst - Approvals and Special Regulatory Projects, Transportation of Dangerous Goods Directorate
 Transport Canada / Government of Canada
daniel.daigle@tc.gc.ca

Analyste - Approbations et projets réglementaires spéciaux, Direction générale du transport des marchandises dangereuses
 Transports Canada / Gouvernement du Canada
daniel.daigle@tc.gc.ca



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A0072948_1-001122

From: Daigle, Daniel (TC/TC)
Sent: Friday, February 23, 2024 2:38 PM
To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Subject: RE: [External/Externe]: Reprocessing Working Group Kick-Off Meeting

Good afternoon Pui Wai,

I is very unclear to me if any of the suggested topics for discussion encompass transport... this is why I refrained from suggesting TC participation in any of them this morning.
 However, you may keep me in the loop for any topic you believe I can contribute to, such as “supply/demand” or “regulatory environment”.

Thank you and have a nice weekend!

Daniel Daigle, B.Sc.A.

Analyst - Approvals and Special Regulatory Projects, Transportation of Dangerous Goods Directorate
 Transport Canada / Government of Canada
daniel.daigle@tc.gc.ca

Analyste - Approbations et projets réglementaires spéciaux, Direction générale du transport des marchandises dangereuses
 Transports Canada / Gouvernement du Canada
daniel.daigle@tc.gc.ca



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-----Original Appointment-----

From: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Sent: Monday, January 8, 2024 2:05 PM
To: Yuen, Pui Wai; tanya.hinton@international.gc.ca; naina.thoppil@international.gc.ca; duck.kim@ec.gc.ca; Elizabeth.White-Senack@ised-isde.gc.ca; laura.nourallah@ised-isde.gc.ca; david.reinholz@cnsc-ccsn.gc.ca; michael.kent@cnsc-ccsn.gc.ca; tessa.henley@cnsc-ccsn.gc.ca; julian.amalraj@cnsc-ccsn.gc.ca; marc.desrosiers@hc-sc.gc.ca; Daigle, Daniel (TC/TC); Rector, Brianna (she, her | elle, la); Poupore, Jessica; Wittmann, Tess (she, her | elle, elle); Prosser, Kathleen; Beauregard-Tellier, Frédéric; Brady, Daniel; Hoult, Colin; Wilkinson, David; Fairchild, Jamie
Cc: Edwards, Geoff; Obreja, Catalin (ECCC)
Subject: [External/Externe]: Reprocessing Working Group Kick-Off Meeting
When: vendredi, février 23, 2024 10:00-11:30 (UTC-05:00) Est (É.-U. et Canada).
Where: Microsoft Teams Meeting

Dear colleagues,

Thank you for your timely response on availability to determine the date for the kick-off meeting for the working level working group on used fuel reprocessing.

Based on the feedback we received, the first meeting will take place Friday, February 23, 2024, from 10:00am – 11:30am on Microsoft Teams. You are welcome to pass this meeting invite along to anyone we may have missed. Tentative agenda is as follows:

A0072948_2-001123

Welcome
 Introductions
 Recap of Planned Work and Proposed Outcomes
 Work Plan Discussion
 Action Items and Next Meeting Date

Additional details to follow in the coming weeks as materials are further developed.

Thank you again for your support and expertise on the matter. For any questions, please contact the Advisor leading this work, Kate Prosser at kathleen.prosser@nrcan-rncan.gc.ca.

Kind regards,
 Pui Wai Yuen
 Director, Uranium and Radioactive Waste Division

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FW: [External/Externe]: Reprocessing Working Group Kick-Off Meeting

April 29, 2024 12:59 PM

Subject	FW: [External/Externe]: Reprocessing Working Group Kick-Off Meeting
From	Yuen, Pui Wai
To	Prosser, Kathleen
Cc	Wittmann, Tess (she, her elle, elle); Fairchild, Jamie; Temnikov, Dimitri
Sent	February 23, 2024 7:23 PM

UNCLASSIFIED - NON CLASSIFIÉ

Fyi – we can get back to him next week.

Do you foresee TC having a role in any of the discussion topics? [REDACTED]
[REDACTED] So yeah, regulatory environment I guess and perhaps supply/demand too?

From: Daigle, Daniel (TC/TC) <Daniel.Daigle@tc.gc.ca>
Sent: Friday, February 23, 2024 2:38 PM
To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Subject: RE: [External/Externe]: Reprocessing Working Group Kick-Off Meeting

Good afternoon Pui Wai,

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Thank you and have a nice weekend!

Daniel Daigle, B.Sc.A.

Analyst - Approvals and Special Regulatory Projects, Transportation of Dangerous Goods Directorate
Transport Canada / Government of Canada
daniel.daigle@tc.gc.ca

Analyste - Approbations et projets réglementaires spéciaux, Direction générale du transport des marchandises dangereuses
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-----Original Appointment-----

From: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>

Sent: Monday, January 8, 2024 2:05 PM

To: Yuen, Pui Wai; tanya.hinton@international.gc.ca; naina.thoppil@international.gc.ca; duck.kim@ec.gc.ca; Elizabeth.White-Senack@ised-isde.gc.ca; laura.nourallah@ised-isde.gc.ca; david.reinholz@cnscccsn.gc.ca; michael.kent@cnscccsn.gc.ca; tessa.henley@cnscccsn.gc.ca; julian.amalraj@cnscccsn.gc.ca; marc.desrosiers@hc-sc.gc.ca; Daigle, Daniel (TC/TC); Rector, Brianna (she, her | elle, la); Poupore, Jessica; Wittmann, Tess (she, her | elle, elle); Prosser, Kathleen; Beauregard-Tellier, Frédéric; Brady, Daniel; Hoult, Colin; Wilkinson, David; Fairchild, Jamie
Cc: Edwards, Geoff; Obreja, Catalin (ECCC)

Subject: [External/Externe]: Reprocessing Working Group Kick-Off Meeting

When: vendredi, février 23, 2024 10:00-11:30 (UTC-05:00) Est (É.-U. et Canada).

Where: Microsoft Teams Meeting

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- Introductions
- Recap of Planned Work and Proposed Outcomes
- Work Plan Discussion
- Action Items and Next Meeting Date

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Kind regards,

Pui Wai Yuen

Director, Uranium and Radioactive Waste Division

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No de vidéoconférence : [REDACTED]

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No de conférence téléphonique : [REDACTED]

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FW: A06255-2023 MCMS Notification - REQUEST TO DRAFT Ministerial or DM correspondence _ Notification SGCM - DEMANDE DE RÉDACTION d'une correspondance du ministre ou du sous-ministre.txt

April 29, 2024 12:19 PM

Subject	FW: A06255-2023 MCMS Notification - REQUEST TO DRAFT Ministerial or DM correspondence _ Notification SGCM - DEMANDE DE RÉDACTION d'une correspondance du ministre ou du sous-ministre.txt
From	Prosser, Kathleen
To	Yuen, Pui Wai
Cc	Wilkinson, David
Sent	October 5, 2023 11:06 AM

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FYSA on GACs position wrt the language in the docket, you can see my exchange with Tanya on the issue below. [REDACTED] I'll be looping back to Tanya once you've reviewed Pui Wai, and possibly also post-Fred if there are substantial changes from him.

-Kate

Kathleen Prosser, PhD.
(she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada
Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada

-----Original Message-----

From: Tanya.Hinton@international.gc.ca
Sent: Wednesday, October 4, 2023 3:07 PM
To: Prosser, Kathleen

Hi Kate

Thanks for checking on that. Our view was that [REDACTED]

[REDACTED]

Thanks

A0072950_1-001128

s.21(1)(b)

Tanya

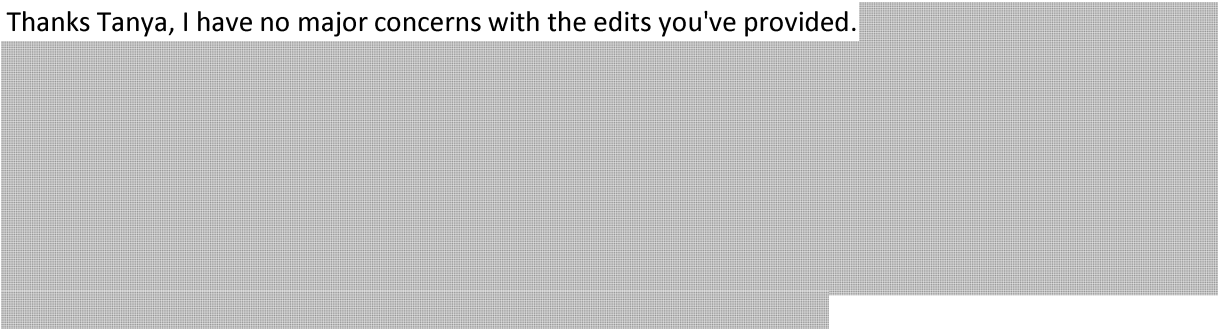
-----Original Message-----

From: Prosser, Kathleen

Sent: Wednesday, October 4, 2023 12:45 PM

To: Hinton, Tanya -IGN

Thanks Tanya, I have no major concerns with the edits you've provided.



Your thoughts welcome and I'll certainly share the final copy of the text, and potentially another draft if we develop language that might benefit from your consideration.

-Kate

Kathleen Prosser, PhD.
(she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada _____

-----Original Message-----

From: Tanya.Hinton@international.gc.ca

Sent: Tuesday, October 3, 2023 5:43 PM

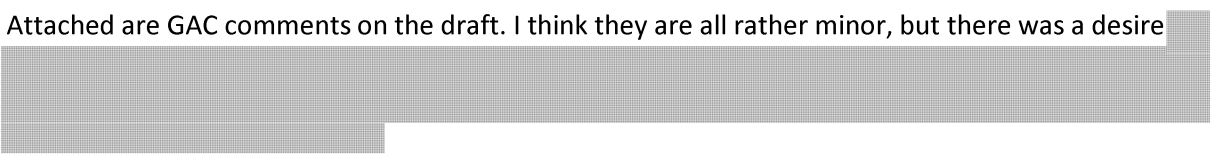
To: Prosser, Kathleen

Subject: RE: A06255-2023 MCMS Notification - REQUEST TO DRAFT Ministerial or DM correspondence _ Notification SGCM - DEMANDE DE RÉDACTION d'une correspondance du ministre ou du sous-ministre.txt

Declassified by ATIP /
OTI classifié par PROTEGÉ B

Hi Kate,

Attached are GAC comments on the draft. I think they are all rather minor, but there was a desire



Let me know if you have any questions or concerns. And grateful if you could share the final letter once it goes out.

Thanks,
Tanya

-----Original Message-----

From: Prosser, Kathleen

A0072950_2-001129

Sent: September 29, 2023 3:14 PM
To: Hinton, Tanya -IGN
Subject: RE: A06255-2023 MCMS Notification - REQUEST TO DRAFT Ministerial or DM
correspondence _ Notification SGCM - DEMANDE DE RÉDACTION d'une correspondance du ministre
ou du sous-ministre.txt

PROTECTED B - PROTÉGÉ B

Hi Tanya,

Attached is an early draft for your review, this hasn't gone through any of the approval chains yet
but welcome your thoughts.

Thanks!
-Kate

Kathleen Prosser, PhD.
(she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada Division de l'uranium et des
déchets radioactifs | Ressources naturelles Canada _____

-----Original Message-----

From: Tanya.Hinton@international.gc.ca
Sent: Friday, September 29, 2023 2:10 PM
To: Fairchild, Jamie ; Daniel.Barbarie@international.gc.ca; Gauthier, Tim
Cc: Brady, Daniel ; Prosser, Kathleen ; Yuen, Pui Wai ; Wilkinson, David ; Robibero, Erica
Subject: RE: A06255-2023 MCMS Notification - REQUEST TO DRAFT Ministerial or DM
correspondence _ Notification SGCM - DEMANDE DE RÉDACTION d'une correspondance du ministre
ou du sous-ministre.txt

Sorry to Daniel and Dan. I added the wrong person!

Grateful if GAC could be consulted on your reply, as our Minister was also forwarded the letter.

Thanks
Tanya

-----Original Message-----

From: Fairchild, Jamie
Sent: September 28, 2023 4:19 PM
To: Hinton, Tanya -IGN ; Barbarie, Daniel -IGN ; Gauthier, Tim
Cc: Brady, Daniel ; Prosser, Kathleen ; Yuen, Pui Wai ; Wilkinson, David ; Robibero, Erica
Subject: RE: A06255-2023 MCMS Notification - REQUEST TO DRAFT Ministerial or DM
correspondence _ Notification SGCM - DEMANDE DE RÉDACTION d'une correspondance du ministre
ou du sous-ministre.txt

PROTECTED B - PROTÉGÉ B

Hi Tanya,

Thanks for reaching out. I believe it's in Dave and Kate's capable hands as we speak. Looking for
them to confirm.

Jamie

A0072950_3-001130

(he/him/il/lui)

Senior Advisor | Conseiller principale

Uranium and Radioactive Waste Division | Division de l'uranium et des déchets radioactifs

Telephone | Téléphone: 343.543.6983

NEW: Jamie.Fairchild@NRCan-RNCan.gc.ca

-----Original Message-----

From: Tanya.Hinton@international.gc.ca

Sent: Thursday, September 28, 2023 3:41 PM

To: Fairchild, Jamie ; Daniel.Barbarie@international.gc.ca; Gauthier, Tim

Subject: FW: A06255-2023 MCMS Notification - REQUEST TO DRAFT Ministerial or DM correspondence _ Notification SGCM - DEMANDE DE RÉDACTION d'une correspondance du ministre ou du sous-ministre.txt

Hello

Just wondering if NRCan will plan to take the lead on responding to this, as you did in the past?
I also note that the letter suggests they never received the previous reply, which is a bit curious.

Tanya

-----Original Message-----

From: Graham, Mark -IGD

Sent: September 28, 2023 1:46 PM

To: Bournillat, Frankie -DCC ; Thoppil, Naina -IGN ; Hinton, Tanya -IGN

Subject: RE: A06255-2023 MCMS Notification - REQUEST TO DRAFT Ministerial or DM correspondence _ Notification SGCM - DEMANDE DE RÉDACTION d'une correspondance du ministre ou du sous-ministre.txt

Thanks Frankie. I have looped in IGN colleagues, but the lead for a response would probably lie with NRCan who could reach out to us as appropriate.

Mark

-----Original Message-----



From: Bournillat, Frankie -DCC

Sent: September 28, 2023 1:35 PM

To: EXTOTT (IGD) ; *IGD

Subject: A06255-2023 MCMS Notification - REQUEST TO DRAFT Ministerial or DM correspondence _ Notification SGCM - DEMANDE DE RÉDACTION d'une correspondance du ministre ou du sous-ministre.txt

REQUEST / DEMANDE : Record A06255-2023 has been assigned to DRAFT a reply for MINA signature. Please advise us as soon as possible if this tasking has been misdirected. /
L'enregistrement A06255-2023 a été assigné à votre direction générale pour la rédaction d'une réponse pour la signature de MINA. Si cette demande a été adressée au mauvais endroit, veuillez nous en avvertir dès que possible.

CORRESPONDENT / CORRESPONDANT : 


SUBJECT / OBJET : Non-proliferation and disarmament / Non-prolifération et désarmement

A0072950_4-001131

DESCRIPTION : Request for a nuclear weapons proliferation risk assessment of the Canadian-government-funded proposal to separate plutonium from CANDU spent fuel (no record of September 22, 2023, email addressed to MINA at her parl.gc.ca addy)

LANGUAGE / LANGUE : Draft replies must be in the same official language as the incoming correspondence (in both official languages if received as such). / La réponse doit être dans la même langue officielle que la correspondance reçue (dans les deux langues officielles si elle est reçue comme telle).

DEADLINE / ÉCHÉANCIER : 2023-10-19.

DELIVERY / LIVRAISON : Attach approved draft (Word) to MCMS record. Close all bureau and divisional routings. Open new routing and assign to DCC/Editor with Task: "Edit." Save the record. If no access to MCMS, send by email to *DCC Editors - Réviseurs. / Joignez l'ébauche approuvée (Word) à l'enregistrement SGCM. Fermez tous les acheminements à la direction générale et à la direction. Ajoutez un nouvel acheminement à DCC/Editor, avec la tâche « Edit ». Sauvegardez l'enregistrement. Si vous n'avez pas accès au SGCM, veuillez transmettre par courriel à *DCC Editors - Réviseurs.

APPROVAL, TEMPLATE AND OTHER INSTRUCTIONS:

<http://modus/services/int-ser/comm/7097897-7097899.aspx?lang=eng>

APPROBATION, GABARIT ET AUTRES INSTRUCTIONS :

<http://modus/services/int-ser/comm/7097897-7097899.aspx?lang=fra>

FW: MIN APPROPRIATE ACTION | MESURE APPROPRIÉE MIN - DOCKET | DOSSIER 203954 - Enclosing a letter from 12 US non-proliferation experts requesting a nuclear weapons proliferation risk assessment of the Canadian- government-funded proposal to separate pluton

April 29, 2024 10:42 AM

Subject	FW: MIN APPROPRIATE ACTION MESURE APPROPRIÉE MIN - DOCKET DOSSIER 203954 - Enclosing a letter from 12 US non-proliferation experts requesting a nuclear weapons proliferation risk assessment of the Canadian-government-funded proposal to separate pluton
From	Prosser, Kathleen
To	Wilkinson, David
Sent	September 27, 2023 9:15 AM

UNCLASSIFIED - NON CLASSIFIÉ

Kathleen Prosser, PhD.
(she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada
Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada

From: Brady, Daniel <daniel.brady@NRCan-RNCan.gc.ca>
Sent: Tuesday, September 26, 2023 5:23 PM
To: Robibero, Erica <erica.robibero@NRCan-RNCan.gc.ca>; Gauthier, Tim <tim.gauthier@NRCan-RNCan.gc.ca>; Fairchild, Jamie <jamie.fairchild@NRCan-RNCan.gc.ca>
Cc: Cecchi, Abby <abby.cecchi@nrca-nrcan.gc.ca>; Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>; Fairchild, Jamie <jamie.fairchild@NRCan-RNCan.gc.ca>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Subject: RE: MIN APPROPRIATE ACTION | MESURE APPROPRIÉE MIN - DOCKET | DOSSIER 203954 - Enclosing a letter from 12 US non-proliferation experts requesting a nuclear weapons proliferation risk assessment of the Canadian-government-funded proposal to separate pluton

UNCLASSIFIED - NON CLASSIFIÉ

I am pulling in URWD as this is all linked to the reprocessing article that implies the GoC is developing a reprocessing policy. URWD is already dealing with several other requests on the same subject.

A0072954_1-001133

I guess we need to establish standard lines.

I recognize the first couple of letters it was NED that was the lead, but given Kate is leading on reprocessing now, URWD may wish to lead and NED feeds in as required.

From: Robibero, Erica <erica.robibero@NRCan-RNCan.gc.ca>
Sent: Tuesday, September 26, 2023 4:44 PM
To: Gauthier, Tim <tim.gauthier@NRCan-RNCan.gc.ca>; Fairchild, Jamie <jamie.fairchild@NRCan-RNCan.gc.ca>; Brady, Daniel <daniel.brady@NRCan-RNCan.gc.ca>
Cc: Cecchi, Abby <abby.cecchi@nrcan-rncan.gc.ca>
Subject: RE: MIN APPROPRIATE ACTION | MESURE APPROPRIÉE MIN - DOCKET | DOSSIER 203954 -
 Enclosing a letter from 12 US non-proliferation experts requesting a nuclear weapons proliferation risk assessment of the Canadian-government-funded proposal to separate pluton

UNCLASSIFIED - NON CLASSIFIÉ

Hello Gents,

See tasking below. I feel like this will require input from all the folks on this chain.

Please let me know how you would like to proceed.

Thanks,

Erica

From: Cecchi, Abby <abby.cecchi@nrcan-rncan.gc.ca>
Sent: septembre 26, 2023 16:36
To: Robibero, Erica <erica.robibero@NRCan-RNCan.gc.ca>
Subject: FW: MIN APPROPRIATE ACTION | MESURE APPROPRIÉE MIN - DOCKET | DOSSIER 203954 -
 Enclosing a letter from 12 US non-proliferation experts requesting a nuclear weapons proliferation risk assessment of the Canadian-government-funded proposal to separate pluton

UNCLASSIFIED - NON CLASSIFIÉ

I missed this and didn't task it out. Who should it go to

From: NEISB DGO Correspondence / Correspondance BDG DENSI (NRCan/RNCan)
 <neisbcorrespondence-correspondancedensi@nrcan-rncan.gc.ca>
Sent: Friday, September 22, 2023 11:44 AM
To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Hilborn, Jade (she, her | elle, elle)
 <jade.hilborn@nrcan-rncan.gc.ca>; Robibero, Erica <erica.robibero@NRCan-RNCan.gc.ca>; Cecchi, Abby <abby.cecchi@nrcan-rncan.gc.ca>; Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Cc: NEISB DGO Correspondence / Correspondance BDG DENSI (NRCan/RNCan)
 <neisbcorrespondence-correspondancedensi@nrcan-rncan.gc.ca>; Ottaway, Chelsea
 <chelsea.ottaway@NRCan-RNCan.gc.ca>
Subject: FW: MIN APPROPRIATE ACTION | MESURE APPROPRIÉE MIN - DOCKET | DOSSIER 203954 -
 Enclosing a letter from 12 US non-proliferation experts requesting a nuclear weapons proliferation risk assessment of the Canadian-government-funded proposal to separate pluton

A0072954_2-001134

UNCLASSIFIED - NON CLASSIFIÉ

For action (I am not sure which team should lead, but it seems like both are implicated)

Incoming attached for reference

[203954 \(gcdocs.gc.ca\)](#)

Due Oct 11

From: ESS Correspondence / SSE Correspondance (NRCan/RNCan) <esscorrespondence-ssecorrespondance@nrcan-rncan.gc.ca>

Sent: Friday, September 22, 2023 11:26 AM

To: NEISB DGO Correspondence / Correspondance BDG DENSI (NRCan/RNCan) <neisbcorrespondence-correspondancedensi@nrcan-rncan.gc.ca>

Cc: Ottaway, Chelsea <chelsea.ottaway@NRCan-RNCan.gc.ca>; Stirrett-Wood, Bruce <bruce.stirrettwood@nrcan-rncan.gc.ca>; ESS Correspondence / SSE Correspondance (NRCan/RNCan) <esscorrespondence-ssecorrespondance@nrcan-rncan.gc.ca>

Subject: MIN APPROPRIATE ACTION | MESURE APPROPRIÉE MIN - DOCKET | DOSSIER 203954 -

Enclosing a letter from 12 US non-proliferation experts requesting a nuclear weapons proliferation risk assessment of the Canadian-government-funded proposal to separate pluton

UNCLASSIFIED - NON CLASSIFIÉ

Lead: ESS-NEISB

ECIO due date: October 11, 2023

Routed to NEISB for appropriate action.

Please provide DG approved materials to ECIO via email with the completed [Routing Slip](#) attached.

Thank you,

Evan

From: EDU / UDHD (NRCan/RNCan) <edu-udhd@nrcan-rncan.gc.ca>

Sent: Friday, September 22, 2023 11:09 AM

To: ESS Correspondence / SSE Correspondance (NRCan/RNCan) <esscorrespondence-ssecorrespondance@nrcan-rncan.gc.ca>

Subject: MIN APPROPRIATE ACTION | MESURE APPROPRIÉE MIN - DOCKET | DOSSIER 203954 -

Enclosing a letter from 12 US non-proliferation experts requesting a nuclear weapons proliferation risk assessment of the Canadian-government-funded proposal to separate plutonium

UNCLASSIFIED - NON CLASSIFIÉ

(Le français suit.)

Lead Sector: ESS

Appropriate Action: MINO has left it to the Sector to decide the appropriate response for this docket (Min Reply, ADM Direct Reply, Direct Reply, or Note to File) .

Action: Please use the appropriate template ([Ministerial Correspondence Template](#), [ADM Direct Reply](#)

A0072954_3-001135

or [DirectReply](#)) and save your draft response in the GCDOCS folder [203954](#).

Notes:

- The lead sector must advise EDU where a Standard Reply applies.
- For rerouting a docket, please use the instructions found here: [Reroutes of ministerial correspondence](#).
- Extensions must be requested at least 3 days in advance of the due date (send an email to EDU using the [Extension Request Form](#) (<https://gcdocs.gc.ca/nrcan-rncan/llisapi.dll/Overview/6020496>).
- If you wish to share additional information with the Minister's Office on this docket, please create a Note to File.

Due Date: To EDU by October 13, 2023

Thank you.

Secteur responsable : SE

Mesure appropriée : Le Cabinet du ministre s'en remet au secteur afin de décider la réponse à prendre avec ce dossier (Réponse Ministérielle, Réponse Directe SMA, Réponse Directe, ou Note au dossier).

Action : Veuillez utiliser le modèle approprié ([Modèle de correspondance ministérielle](#), [SMA réponse directe](#) ou [Réponse directe](#)) et sauvegarder votre ébauche de réponse dans le fichier GCDOCS [203954](#).

Nota :

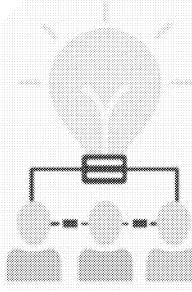
- Le secteur responsable doit informer l'UDHD lorsqu'il est nécessaire d'utiliser une réponse type.
- Pour réacheminer un dossier, veuillez utiliser les instructions qui se trouvent ici : [Réacheminement de la correspondance ministérielle](#).
- Les prolongations de délais doivent être demandées au moins 3 jours avant la date d'échéance (envoyez un courriel à l'UDHD en utilisant le Formulaire de demande de prolongation (<https://gcdocs.gc.ca/nrcan-rncan/llisapi.dll/Overview/6020496>)).
- Si vous souhaitez communiquer des renseignements complémentaires au sujet de ce dossier au Cabinet du ministre, veuillez rédiger une Note au dossier.

Date d'échéance : À l'UDHD d'ici le 13 octobre 2023

Merci.

The EDU Team | L'Équipe UDHD

edu-udhd@nrcan-rncan.gc.ca



Concerns or issues with processing executive documents? Suggestions for improving the current tools and/or procedures? Send an email to the EDMP Project Manager (Nathalie.Hurtubise@nrcan-rncan.gc.ca) today!

Préoccupations ou problèmes liés au traitement des documents de la haute direction? Suggestions pour améliorer les outils et/ou procédures? Envoyez un courriel au chef de projet (Nathalie.Hurtubise@nrcan-rncan.gc.ca) du PMDHD aujourd'hui!

RE: FOR URGENT ACTION: Media request (Rapid) // Nuke fuel reprocessing // Matt McClearn (Globe and Mail)

April 29, 2024 11:15 AM

Subject	RE: FOR URGENT ACTION: Media request (Rapid) // Nuke fuel reprocessing // Matt McClearn (Globe and Mail)
From	Tanya.Hinton@international.gc.ca
To	Prosser, Kathleen
Cc	Naina.Thoppil@international.gc.ca; Yuen, Pui Wai; Wilkinson, David; Fairchild, Jamie
Sent	September 13, 2023 10:09 AM

Thanks! [REDACTED]

From: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>
Sent: September 13, 2023 8:41 AM
To: Hinton, Tanya -IGN <Tanya.Hinton@international.gc.ca>
Cc: Thoppil, Naina -IGN <Naina.Thoppil@international.gc.ca>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>; Fairchild, Jamie <jamie.fairchild@NRCan-RNCan.gc.ca>
Subject: RE: FOR URGENT ACTION: Media request (Rapid) // Nuke fuel reprocessing // Matt McClearn (Globe and Mail)

Declassified by ATIP /
Déclassifié par AIPRP
PROTECTED A / PROTÉGÉ A

Thanks, Tania, for flagging that language as of concern. I believe that has been in our standard lines for quite a while and I will ensure that it gets removed going forward.

Have a good one,
Kate

Kathleen Prosser, PhD.
(she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada
Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada

From: Tanya.Hinton@international.gc.ca <Tanya.Hinton@international.gc.ca>
Sent: Wednesday, September 13, 2023 8:39 AM
To: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>
Cc: Naina.Thoppil@international.gc.ca; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>; Fairchild, Jamie <jamie.fairchild@NRCan-RNCan.gc.ca>
Subject: RE: FOR URGENT ACTION: Media request (Rapid) // Nuke fuel reprocessing // Matt McClearn (Globe and Mail)

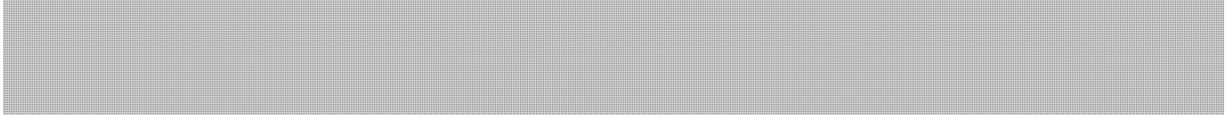
s.21(1)(a)

s.21(1)(b)

Hi Kathleen,

Thank you so much for bringing this to our attention and for sharing your lines below. I will flag this to our comms team and also to my management.

While I understand you are not soliciting input on the lines at the moment,



Tanya

From: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>
Sent: September 13, 2023 7:55 AM
To: Hinton, Tanya -IGN <Tanya.Hinton@international.gc.ca>
Cc: Thoppil, Naina -IGN <Naina.Thoppil@international.gc.ca>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>; Fairchild, Jamie <jamie.fairchild@NRCan-RNCan.gc.ca>
Subject: FW: FOR URGENT ACTION: Media request (Rapid) // Nuke fuel reprocessing // Matt McClearn (Globe and Mail)

Declassified by ATIP/
 Déclassifié par l'ATIP
 PROTECTED B - PROTÉGÉ B

Good Morning Tanya,

I'm reaching out to let you know that some documents related to reprocessing were released through an access to information request in August (I understand Jamie has already given you a heads up!).

Included in this release was the draft reprocessing framework developed by COG, which we had originally suggested be redacted but was approved for release by COG. This has gained a little traction already and we have received two requests related to this document, both identifying it as a federal government policy which we are correcting on record, per the language below (DG approved at this point, may evolve as it moves up the chain). For your awareness, the inquiries have come from Nuclear Waste Watch, and another through a media request from the Globe and Mail (below). I've attached for your awareness the latest we have on the ATIP package, in which you can see my suggested redactions, noting that for pages 43-52 ATIP consulted with CANDU Owners Group Inc. and they consented to the release of the draft document.

Happy to connect on this issue if that would be useful, otherwise would appreciate being kept in the loop if GAC sees any uptake on these documents.

All the best,
 Kate

Kathleen Prosser, PhD.
 (she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada
 Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada

- What is the status of NRCan's efforts to establish a policy on used

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nuclear fuel reprocessing?

- NRCAN is not undertaking efforts to establish a policy on used nuclear fuel reprocessing. The Government of Canada remains receptive to exploring the science, benefits, and risks associated with potential technologies that could recycle used nuclear fuel in a safe, secure, and environmentally sustainable way while meeting Canada's non proliferation obligations.
- There are currently no commercial facilities carrying out used fuel reprocessing activities in Canada as part of our nuclear fuel or waste management cycle, and it is not part of the existing CANDU fuel cycle. In the past, the nuclear industry has not deemed it necessary or cost-effective to reprocess and recycle used nuclear fuel from Canada's reactors given the domestic abundance of economical high-grade uranium. However, some technology developers are now considering reprocessing activities in Canada, as some small modular reactor (SMR) technologies are being researched to operate on reprocessed used nuclear fuel.
- Any potential reprocessing of used nuclear fuel in Canada would be subject to the Canadian regulatory framework under the *Nuclear Safety and Control Act*, as well as safeguards verification by the International Atomic Energy Agency (IAEA), and any proposal for commercial deployment would be subject to a regulatory review with opportunities for the public to provide input. Canada remains committed to the Treaty on the Non Proliferation of Nuclear Weapons (NPT), including the full implementation of safeguards set by the IAEA to provide assurances that nuclear materials are used solely for peaceful purposes in Canada. If ever brought forward, the radioactive waste from a reprocessing project would fall within the scope of Canada's Policy for Radioactive Waste Management and Decommissioning.
- NRCAN is aware of the draft document prepared by the CANDU Owners Group through subject matter expert participation in SMR related working groups. This document was generated by the CANDU Owners Group and is, in its entirety, an industry led and owned document. It does not in any way represent a policy of or by the federal government.

• Why has the policy not been released yet?

- The Government of Canada does not have a policy specifically in favor of, or banning, spent fuel reprocessing. The Government of Canada is monitoring the research and development of technologies related to the reprocessing of spent CANDU fuel, and is receptive to exploring the science, benefits, and risks associated with technologies to reprocess nuclear fuel. Reprocessing in Canada would require consideration of all relevant factors by the federal government—including safety, security, sustainability, and peaceful use—prior to its deployment. Canada remains committed to the Treaty on the Non-Proliferation of Nuclear Weapons, including the full implementation of safeguards set by the International Atomic Energy Agency to provide assurances that nuclear materials are used solely for peaceful purposes in Canada.

• When does NRCAN intend to release the policy?

- Please see above response.

- **When did NRCan ask the COG for input on this policy?**
 - This document was generated by the CANDU Owners Group and is, in its entirety, an industry led and owned document. NRCan therefore did not solicit input from COG, the document was shared with NRCan subject matter experts for discussion and consideration. It does not in any way represent a policy of or by the federal government.
- **Other than the COG, who else has NRCan consulted on establishing a policy on used nuclear fuel reprocessing?**
 - This document was generated by the CANDU Owners Group and is, in its entirety, an industry led and owned document. NRCan therefore did not consult anyone on a used nuclear fuel reprocessing policy. During the course of the engagement on the modernization of Canada's Policy on Radioactive Waste Management and Decommissioning, reprocessing was raised through a number of submissions and engagement sessions, in which other federal government departments participated.
- **What input did these other parties offer?**
 - NRCan is not aware of who COG has consulted on their draft spent fuel reprocessing document.

Key Message:

Reprocessing in Canada would require consideration of all relevant factors by the federal government prior to its deployment, including ensuring the health, safety and security of people in Canada, and compliance with non-proliferation safeguards and international treaties. The government of Canada remains deeply committed to the 1970 Treaty on the Non-Proliferation of Nuclear Weapons (NPT), [REDACTED]

All radioactive material, and any potential future deployment of reprocessing technologies in Canada is and will be safely managed under our comprehensive legislative framework for nuclear energy and technologies. This framework focuses on protecting health, safety, security, and the environment, while following international best practices that are based on the best available science. Our independent regulator—the Canadian Nuclear Safety Commission—ensures that all licensed nuclear facilities that manage radioactive material do so safely according to the regulatory framework under the *Nuclear Safety and Control Act*.

Kathleen Prosser, PhD.
(she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada
Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada

From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Sent: Tuesday, September 12, 2023 2:11 PM
To: Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>
Cc: Ottawa, Chelsea <chelsea.ottaway@NRCan-RNCan.gc.ca>; NEISB DGO Correspondence / Correspondance BDG DENSI (NRCan/RNCan) <neisbcorrespondence-correspondancedensi@nrcan-rncan.gc.ca>; Adams, Emilie (she, her | elle, elle) <emilie.adams@NRCan-RNCan.gc.ca>; Roush,

Melanie <melanie.roush@nrcan-rncan.gc.ca>; Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

Subject: FOR URGENT ACTION: Media request (Rapid) // Nuke fuel reprocessing // Matt McClearn (Globe and Mail)

Importance: High

UNCLASSIFIED - NON CLASSIFIÉ

Hi Frédéric.

We've received an urgent media call from the Globe and Mail regarding nuclear fuel reprocessing.

Please let us know if you can speak to this call.

Thank you

bruce

Bruce Blackie

Media Relations / Relations avec les médias

Natural Resources Canada / Ressources naturelles Canada

media@nrcan-rncan.gc.ca

(343) 598-7019

REPORTER DEADLINE:

2023/09/13 03:00 PM

APPROVALS:

SECTOR: ESS

CALL TYPE: Written Response/ Réponse écrite

CODE: Rapid

OUTLET: Globe and Mail

REPORTER: Matt McClearn

CONTEXT/QUESTIONS:

Reporter has a number of questions for NRCan regarding nuclear fuel reprocessing.

[REDACTED] The documents reveal that NRCan has been studying nuclear fuel reprocessing, including the potential for increased proliferation risk. The documents also reveal that the CANDU Operators Group provided NRCan with a "strategy to establish a policy on used nuclear fuel reprocessing" in September 2022. The documents indicate that Moltex has made a submission on the draft policy. It is evident from the documents that certain members of Canada's nuclear industry are eager to see the government release such a policy promptly. The COG had wanted it to be issued this spring, but as far as the reporter is aware, no policy has been released yet.

QUESTIONS FOR NRCan:

- What is the status of NRCan's efforts to establish a policy on used nuclear fuel reprocessing?
- Why has the policy not been released yet?
- When does NRCan intend to release the policy?
- When did NRCan ask the COG for input on this policy?
- Other than the COG, who else has NRCan consulted on establishing a policy on used

A0072967_5-001141

nuclear fuel reprocessing?

- What input did these other parties offer?

RESPONSE

RE: Meet?

April 29, 2024 10:50 AM

Subject	RE: Meet?
From	Prosser, Kathleen
To	Wilkinson, David; Yuen, Pui Wai
Sent	October 12, 2023 2:32 PM

Hi -



-Kate

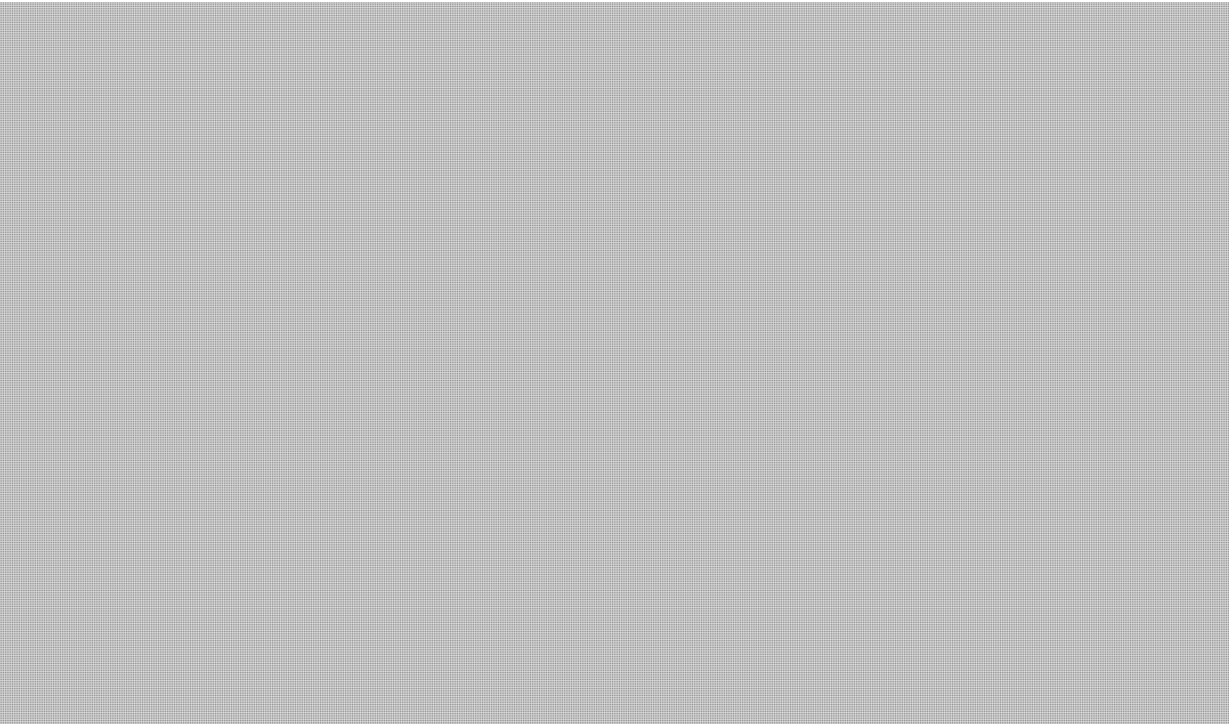
Sent from my Bell Samsung device over Canada's largest network.

----- Original message -----

From: "Wilkinson, David" <david.wilkinson@NRCan-RNCan.gc.ca>
Date: 2023-10-12 1:24 p.m. (GMT-05:00)
To: "Prosser, Kathleen" <Kathleen.Prosser@NRCan-RNCan.gc.ca>, "Yuen, Pui Wai" <puiwai.yuen@NRCan-RNCan.gc.ca>
Subject: RE: Meet?

Declassified by ATIP /
Déclassifié par l'ATIP
PROTÉGÉ B / PROTÉGÉ B

Hello,



David Wilkinson
Senior Advisor – Radioactive Waste Policy / Conseiller principal – Politique sur les déchets radioactifs

s.21(1)(a)

s.21(1)(b)

Uranium and Radioactive Waste Division / Division de l'uranium et des déchets radioactifs
Natural Resources Canada / Ressources naturelles Canada

From: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>

Sent: Thursday, October 12, 2023 12:55 PM

To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>

Subject: RE: Meet?

There was no statement

Sent from my Bell Samsung device over Canada's largest network.

----- Original message -----

From: "Yuen, Pui Wai" <puiwai.yuen@NRCan-RNCan.gc.ca>

Date: 2023-10-12 12:53 p.m. (GMT-05:00)

To: "Prosser, Kathleen" <Kathleen.Prosser@NRCan-RNCan.gc.ca>, "Wilkinson, David" <david.wilkinson@NRCan-RNCan.gc.ca>

Subject: RE: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

Thanks Kate!

Do you have Pierre Trudeau's statement readily?

Thanks,
PW

From: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>

Sent: 12 octobre 2023 12:49

To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>

Subject: RE: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

Couple notes (will be unavailable after 1pm on tour):

That's a long-winded way of saying that we are open to the possibility of reprocessing, but we will have to look at it through every angle, beginning with safety, security, and nonproliferation, and that work is not currently underway.

On the Pierre Elliot Trudeau thing, if he wants to answer that more directly, there was no statement against reprocessing by the Trudeau government. There were a number of discussion in parliament related to issues of the day, including uranium enrichment, but these discussions did not result in any anti-reprocessing policies on the part of the government.

A0072968_2-001144

s.19(1)

Kathleen Prosser, PhD.
 (she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada
 Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada

From: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Sent: Thursday, October 12, 2023 12:39 PM
To: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>
Subject: FW: Meet?
Importance: High

UNCLASSIFIED - NON CLASSIFIÉ

I'm going to take a look as well, but please let me know if there are any red flags on the reprocessing answers. Fred has an opportunity to add/correct by COB today.

Please let me know by 3pm.

Thanks!
 PW

From: Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>
Sent: 11 octobre 2023 17:41
To: Brady, Daniel <daniel.brady@NRCan-RNCan.gc.ca>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Cc: Ottaway, Chelsea <chelsea.ottaway@NRCan-RNCan.gc.ca>
Subject: FW: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

I did this interview (approved) while at the GC. Abridged transcript below fyi

From: Philip Chaffee <[REDACTED]>
Sent: Wednesday, October 11, 2023 5:34 PM
To: Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>
Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Fred,

Thanks again for meeting with me two weeks ago in Vienna. I've finally gotten around to transcribing the interview, and we're hoping to run it on Friday.

Please let me know tomorrow if you have any tweaks to make to your answers -- not my questions (though obviously if I'm getting something wrong in the intro or questions please let me know). If you do have tweaks, if you can highlight them or bold them it would be much appreciated.

Cheers,

A0072968_3-001145

Phil

Interview: Canada's Beauregard Tellier Talks Newbuilds and Reprocessing

When Frederic Beauregard-Tellier took over as the director general for nuclear energy at Natural Resources Canada (NRCan) in January, he became the government point person for one of the world's most ambitious—and most coordinated—new nuclear programs. While the momentum behind Canada's expansive nuclear plans is largely driven by provincial utilities, and in particular Ontario's Bruce Power and Ontario Power Generation (OPG), Ottawa and Natural Resources Canada have played key supportive roles in terms of planning and financing. Beauregard-Tellier sat down with Energy Intelligence's Phil Chaffee on the sidelines of the recent International Atomic Energy Agency's General Conference in Vienna to discuss the Canadian program. A shortened and edited version of their Sep. 26 conversation is below.

Q: Canada is at the center of new nuclear energy right now, particularly around small modular reactors (SMRs), but also this last year with Bruce Power coming out with the possibility of large-scale newbuilds. What role did the federal government play in this broad newbuild program, and to what extent might this role be a model for other countries contemplating new nuclear?

A: I would say we have created a policy space where it makes a lot of sense for utilities — and in our case provinces, because it's the provinces that manage their own electricity regimes in Canada— where it makes sense for those folks to pursue nuclear.

For example, we published in draft form new electricity regulations, roughly a month ago, that will effectively ban the use of fossil fuel-powered electricity starting in 2035. So no coal power, no gas power. There'll be probably some small exceptions for emergencies and things like that. 2035 is not that far away. This is of course, driven by our climate change commitments, our objective to decarbonize our economy, and decarbonize our electricity grid. For jurisdictions like Ontario, and some of our prairie provinces that that don't have a ton of hydro capacity, they need to meet baseload. A lot of them. like Saskatchewan and Alberta, they're meeting baseload through coal-fired generation and gas generation. If they can't use that going forward, there are not a ton of options.

Ontario is our biggest province, 50 million people, it's very much the economic driver of the country. And its electricity needs are projected to increase significantly as we look to 2050, as we try to kind of electrify more parts of our economy. They're well aware of that and they're trying to figure out 'How do we scale up?' Nuclear just makes a lot of sense. Ontario's had nuclear plants, Candu plants, since the 70s. They know Candu, they know nuclear. Hence that announcement from the Government of Ontario saying 'Hey, we know we need more power. Bruce is a great site. Let's start that pre-development work looking for up to 4,800 megawatts [of new nuclear capacity].'" And of course, they're also doing the SMRs at Darlington.

We're happy to see Ontario doing that. We will work alongside them. They are driving this, but we have tools that we can bring to bear. Canada Infrastructure Bank, which is the federal funding arm, invested in the first SMR project at Darlington. I'm not saying they would necessarily invest in Bruce, but it's an example of things that we can do at the federal level to help those projects move along.

Q: Then there's also this 2018 SMR Roadmap, which I think was organized by NRCan.

A: And the [December 2020 SMR] Action Plan coming out of that.

Q: Was this modeled on another country? Or was it entirely a Canadian-inspired project?

A: I wasn't there at the time. My predecessor Diane Cameron [now heading the nuclear technology and economics division at the Paris-based Nuclear Energy Agency] was a big driver of this. It was Canada showing leadership. Canadians - we tend to not necessarily be out there first, but I think on SMRs we are very much in the leadership position, and that action plan puts us in the forefront of SMR development.

Q: You mentioned this Canada Infrastructure Bank investment in the Darlington SMRs — I think it was CA\$978 million (US\$720 million). As far as I understand, that funding is basically to get the project up through a final investment decision or through pouring the concrete. It's not going that's not going to fund the actual construction of the project. Is there potential for further federal money to the project?

A: I'm not sure. The Canada Infrastructure Bank is arm's length. They have a mandate from the government to invest in clean energy projects. They're very interested in nuclear, they've made investments in nuclear, I'm quite certain that they will make more investments in nuclear. Whether or not they intend to potentially invest more at Darlington, I don't know.

But I'll say we're very supportive of Darlington. We can't overemphasize how important that first BWRX-300 facility will be. Everybody's watching. We've had we've had the Polish prime minister there in the last couple of months. It's the first project of that kind, and there's a lot of interest in the technology. And if we're successful, I'm quite certain that we will see more of those projects deployed in Canada and elsewhere. In Canada, OPG has already announced that they intend to build three more at Darlington, and Saskatchewan in the last six weeks or so expressed a desire to do some feasibility work, looking to potentially site some BWRX-300 facilities in that province.

Q: The other big supportive thing that has come out of the federal government in this past year is sort of the Canadian response to the IRA [the 2022 Inflation Reduction Act, the US legislation that includes multiple support mechanisms for nuclear and new nuclear]. I'm thinking of the Investment Tax Credits [ITCs] — I guess there are two different kinds? The cleantech ITCs and the ITCs for clean energy?

A: There are a lot of ITCs.

Q: My understanding is that on the nuclear front, the cleantech ITCs will just go to SMRs, not to large reactors, but then the ITCs for clean energy could go to large or small reactors, or even refurbishments of existing Candu plants. How big a game-changer is that?

A: We like to think it's a pretty big step. It's an aggressive policy. I don't think we've ever seen a tax measure like that that's available to our utilities. Now most of our utilities are provincial Crown corporations. That means they're owned by the provincial governments. And here we have the federal government extending a fiscal benefit to a provincial entity. That's pretty unheard of in our system.

So it's an aggressive measure. There will be uptake. There's a lot of interest. I know there

are consultations underway right now. The Department of Finance, they're engaging with provinces and stakeholders just trying to work out the finer details. But I think it will definitely drive investment again.

Q: There should be a Pickering announcement [on a refurbishment and life-extension of OPG's 3.1 gigawatt Pickering plant] any day, and we've also recently seen Hydro Quebec talking about potentially restarting its mothballed Gentilly-2 Candu reactor. I imagine a lot of the incentives behind these considerations come from these ITCs...

A: I should be careful not to speak for Quebec, for all kinds of reasons. But I'll say that Quebec, like Ontario, is moving in a very big way to electrify its economy. Quebec, as you no doubt know, is a hydroelectricity superpower — it has almost 30,000 megawatts of hydro capacity — but they're looking at their projections, and they need new capacity. They've got a mothballed nuclear plant at Gentilly, and so they're looking at that. I would say they're looking at all options right now to meet that expected demand.

Q: One of the third legs of the Canadian SMR program is microreactors, and one of the use cases for these is powering remote communities. When we're thinking about Yukon or remote communities in the middle of nowhere, is there a federal role in helping the deployment of microreactors?

A: Quite possibly. These are jurisdictions with 30,000 or 40,000 citizens over huge amounts of space. Even a microreactor is a pretty significant capital investment, so it's kind of hard to see—and I'm not making promises here, I'm just speaking very pragmatically—it's hard to see how an investment like that goes ahead without federal support in some capacity. But we're not at that stage of the discussions right now.

When you talk about microreactors, we're still in the demonstration phase. There's work underway at Chalk River with that USNC project [the Micro Modular Reactor project being developed by Global First Power, a joint venture of Ultra Safe Nuclear Corp. and OPG] and lots of interest, and we'll see where that goes.

But we have a lot of remote communities that are not grid-connected, that rely on diesel, so the microreactors are interesting. But there are security considerations that we're gonna have to work through, and there are a lot of issues. It's not a slam dunk. But it's an interesting prospect.

Q: Another interesting potential Canadian use case for SMRs — this time likely not microreactors — is the Alberta Oil Sands. Is decarbonization of the Oil Sands entirely a matter of how the individual operators want to proceed? Or is there any federal government role in decarbonizing the Oil Sands?

A: There are lots of conversations underway with Alberta. Our minister is very engaged, working with his Alberta colleagues. We're engaged in working with Alberta colleagues.

Alberta, and the companies active in Alberta, are keen to become less emitting producers of oil. That's what my minister has been hearing. It's true in oil. It's true in mining. We want to be responsible producers. So the companies are exploring options. And we've talked a lot about CCUS, and there's active work in that space. We have some projects underway now in Alberta.

But nuclear can be an alternative to CCUS, and I think the companies — like the Pathways

Alliance of players in the Oil Sands — they are doing their due diligence, looking at the options and what makes the most sense. We're active in some of those conversations alongside Alberta. At the end of the day, the private sector has an important role in terms of deciding what investments make the most sense. We have set pretty clear policy signals that drive them towards making those kinds of decisions, but we will remain technology agnostic. The objective is not to adopt technology X or Y, the objective is to reduce emissions.

Q: Moving onto large reactors, which you already mentioned. Bruce Power is doing a feasibility study, and I think OPG is thinking about large newbuilds in the longer term at some brownfield coal plants. I wonder from the federal perspective, as these large reactor plans pick up, is there a federal interest in pushing Candu technology - in pushing an indigenous Canadian solution?

A: The short answer is yes. It's our technology. It's a federal crown asset. It's licensed to Candu Energy [a subsidiary of AtkinsRealis, formerly SNC-Lavalin], which is a private player, but the technology is owned by the government of Canada. The IP is owned by the government of Canada. There's a lot of experience in Canada with Candu in Ontario, but also in New Brunswick and Quebec, as you mentioned earlier. So we think it can play a role. It's been helpful in terms of contributing to our energy security in Canada and I think we see we see a role for can do going forward in Canada and internationally.

At the end of the day, it is the provinces who make their own investment decision. In Ontario, which is our biggest province and the biggest nuclear player by far in Canada, it will be a government of Ontario decision, working with its utilities, in terms of which path they take when they look at potential nuclear newbuilds. We like to think that they will look favorably at Candu, but I'm sure they will explore other technologies. And we'll have those conversations and we'll see where that goes.

Q: Your positive words about Candus are a good segue to Romania, where you just announced that potentially CA\$3 billion of Export Development Canada funding will go to finance the Canadian supply chain for the completion of twin Candu 6 reactors at Romania's Cernavoda plant. Obviously, this is a unique project, as there aren't comparable Candu projects around the world. Do you foresee further Canadian nuclear exports, or do you see this as a one-off?

A: First of all, we were very happy to get to that place where we could make that announcement last week. We have a long history of collaboration with Romania on CAandu specifically, and we're proud of that. This is an important project for Romania for energy security and geostrategic reasons. And of course, there's an emissions reduction benefit which is important as well.

We think we think there can be opportunities for Candu technology in either existing markets or new markets around the world, and that will be up to Candu Energy, as the licensee, to explore. My understanding is they're having conversations in different markets and we'll see how that shakes out.

Q: As these Darlington SMRs progress, and potentially we'll get more of these BWRX-300s in Saskatchewan and beyond, there will be a fair amount of Canadian supply chain built out for these reactors. Do you see a future in which the BWRX-300 will be considered a Canadian-American reactor that the government would have an interest in promoting abroad as well?

A: Well it's US technology, but we're one of the first adopters. There inevitably will be some benefits for the Canadian suppliers. I think we will learn a lot around project management — that's an area where OPG has a lot of experience already and is active in foreign markets through Laurentis providing those kinds of services. So there will be opportunities for Canada to support the deployment of that particular reactor in other markets. I mean, I have not seen any sort of solid economic analysis. I can't tell you Canada will get 20% of the benefit right by this point and 30% by that point. I simply don't know. But in broad strokes, I don't think we will be the primary recipient of benefits, but there will be things we can contribute, things we can offer, and that's good for Canada.

Q: As Canada expands beyond pressurized heavy water reactors (Candus) you're talking about different fuel cycles. With GE-Hitachi's BWRX-300 SMRs, it's fairly simple - just some enriched fuel, easy to get across the border. With advanced reactor vendors like USNC or Moltex you're talking about much more complex fuels, some of which need high-assay low-enriched uranium (Haleu) or even reprocessed fuel that is not available today. Is this something you see a Canadian solution to? Or are you thinking of a broader North American solution — relying on the US for some of this stuff?

A: I think addressing these challenges will require partnerships with the US and potentially other allies, and we're having those conversations. But we're eyes wide open that we cannot rely on untrustworthy sources like Russia going forward. That is very clear, and I think all of our allies are on the same page on that.

So we are actively exploring how we can reduce and ultimately eliminate our reliance on Russia. And just to be clear, we don't rely on Russia because Candu is homegrown technology and we basically have an end-to-end fuel cycle. But Russia is a big player in the LEU market, so we are working towards coming up with an allied approach to ensuring the security of fuel supply to address our needs as we start developing these SMRs. It's a priority area for us, working with the US and other partners.

Q: Are you open to the development of domestic reprocessing capabilities?

A: Obviously Moltex is active in Canada. They're doing some R&D. We don't currently have a reprocessing policy in Canada.

Q: I thought there was an anti-reprocessing policy from [former Prime Minister] Pierre Trudeau?

A: Well we are very committed to nonproliferation. We've signed onto all of the treaties. That's at the top of the agenda. There can be concerns associated with reprocessing, so we would definitely look at any reprocessing through that lens first and foremost. We are open to seeing the results of that research, and then we will see where that goes, and we will potentially make policy adjustments as necessary.

That's a long-winded way of saying that we are open to the possibility of reprocessing, but we will have to look at it through every angle, beginning with safety, security, and nonproliferation, and that work is not currently underway.

Q: I don't know how much you can answer this as a civil servant, but it seems like there has been a seismic shift in Canada on perceptions around nuclear energy. Think of Ontario 10 years ago killing a newbuild program versus now. And even just in the government

s.19(1)

itself, I think at first it opposed nuclear's inclusion in the green taxonomy and then supported it. What is behind this? We've seen it a bit in the rest of the world but Canada's is very dramatic.

A: I think there are a number of factors.

At the federal level, there's a very strong commitment to reducing our greenhouse gas emissions as we contribute to the fight against climate change. My government very much sees things through that lens. You've seen my minister, Minister [Jonathan] Wilkinson, and the prime minister [Justin Trudeau] speak very positively about nuclear as a contributor to our net zero objectives. I think there aren't a ton of ways to generate massive amounts of non-emitting electricity; there's hydro and there's nuclear, but there aren't a lot of alternatives.

Going back to Ontario canceling new nuclear in the early 2010s — there was sticker shock then. Nuclear is expensive. The capital costs are significant. We all know that. But we're seeing with other projects, like hydro projects in Canada, so are hydro projects. Building these big projects, whether it's nuclear or other energy sources, it's expensive. And I think people recognize that. The days of cheap power are kind of gone.

It's climate, it's economics, and then globally it's energy security.

Phil Chaffee

New York Bureau Chief
 Editor, Nuclear Intelligence Weekly



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From: Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>

A0072968_9-001151

s.19(1)

Sent: Tuesday, September 19, 2023 17:48
To: Philip Chaffee [REDACTED]
Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Sounds good thanks Phil

Sent from my iPhone

On Sep 19, 2023, at 5:29 PM, Philip Chaffee [REDACTED] wrote:

UNCLASSIFIED - NON CLASSIFIÉ

Hi Fred - let's connect on Monday and play it by ear. It's always such a crazy week. I just sent you a message on WhatsApp, which might be the easiest way to coordinate next week.

Phil

Phil Chaffee
New York Bureau Chief
Editor, Nuclear Intelligence Weekly

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<Outlook-4iaqmn1e.png>

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From: Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>
Sent: Monday, September 18, 2023 13:18
To: Philip Chaffee [REDACTED]; Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

A0072968_10-001152

Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

Subject: RE: Meet?

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Thanks Phil. I think I have open blocks of time Mon-Wed (I leave Wed evening). We can schedule now if you prefer, or we can connect on Monday and play it by ear based on our respective availability. Up to you. Look forward to chatting,

Fred
613-769-3208

Frédéric Beauregard Tellier

Director General, Nuclear Energy and Infrastructure Security Branch
Energy Systems Sector
Natural Resources Canada / Government of Canada
frederic.beauregardtellier@nrcan-rncan.gc.ca / Tel: 613-769-3208

Directeur général, direction de l'énergie nucléaire et de la sécurité des infrastructures
Secteur des systèmes énergétiques
Ressources naturelles Canada / Gouvernement du Canada
Frederic.beauregardtellier@nrcan-rncan.gc.ca / Tél: 613-769-3208

From: Philip Chaffee [REDACTED]
Sent: Friday, September 15, 2023 5:58 PM
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>; Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>
Subject: Re: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

Thanks so much, Bruce!

Fred - Nice to be in touch. Is there any particular day/time that you'll be free to meet during the GC? I'll be there the entire week, and can generally meet wherever in the VIC.

I've also attached our latest so you can get a sense of what Nuclear Intelligence Weekly is.

Cheers,

Phil

Phil Chaffee
New York Bureau Chief
Editor, Nuclear Intelligence Weekly

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<image002.png>

<image003.png>

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From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

Sent: Friday, September 15, 2023 10:47

To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>; Philip Chaffee

Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>; Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>

Subject: RE: Meet?

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Hi Phil.

Justin is leaving NRCan and will be unable to speak for the department and the Government of Canada.

However, Frédéric Beauregard-Tellier, Director General in our Energy Systems Sector, is available to be interviewed and answer questions related to the themes that you identified. Fred will be at the conference in Vienna and will be able to meet there.

Feel free to reach out directly to Fred to make arrangements. He is cc'd on this message.

We kindly ask that you cc NRCan Media Relations on any messages concerning the meeting/interview.

Please let us know if you have any questions.

Thanks!

bruce

From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

Sent: Wednesday, September 6, 2023 1:44 PM

To: Philip Chaffee <[REDACTED]>; Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

Subject: RE: Meet?

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Hi Phil.

Thanks for contacting NRCan Media Relations with this request.

We are looking into it for you and will get back in touch after consulting colleagues internally.

A0072968_12-001154

Cheers
bruce

Bruce Blackie

Media Relations / Relations avec les médias
Natural Resources Canada / Ressources naturelles Canada
media@nrcan-rncan.gc.ca
(343) 598-7019

From: Philip Chaffee [REDACTED]
Sent: Wednesday, September 6, 2023 12:01 PM
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi I'm following up on this interview request for Justin Hannah to see if it might be possible at the IAEA GC in Vienna at the end of the month? I'll be there for the entire week (Sep. 25-29), and I'm guessing Justin will be there for at least the first half of the week.

Cheers,

Phil Chaffee

Phil Chaffee

New York Bureau Chief
Editor, Nuclear Intelligence Weekly

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From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Sent: Monday, February 27, 2023 09:46
To: Philip Chaffee [REDACTED]; Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: RE: Meet?

A0072968_13-001155

Thanks Phil, media relations at NRCan be in touch.

-Anthony

From: Philip Chaffee [REDACTED]
Sent: February 24, 2023 09:44
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Anthony,

Understood. Though it's not as ideal as an on-the-record conversation here, is there any possibility of a remote video interview at some point? If so please consider this a request. If not, Justin is often on the nuclear conference circuit -- as am I -- and I can see when we'll next overlap at an in-person conference.

Cheers,

Phil

Phil Chaffee
Editor, Nuclear Intelligence Weekly

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[REDACTED]

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From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Sent: Friday, February 24, 2023 09:34
To: Philip Chaffee [REDACTED]; Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: RE: Meet?

Hi Phil,

Thanks for following up. I appreciate the themes provided but at this point our media relations team would need more time to discuss with the program area and therefore cannot give the

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go-ahead for an interview to take place in person at the conference.

If you have additional time for this request, we could consider an interview in the future, or alternatively, written responses to questions that you provide.

Thank you and best regards.

Anthony Ertl

Media Relations / Relations avec les médias
Natural Resources Canada / Ressources naturelles Canada
media@nrcan-rncan.gc.ca
(342) 292-6100

<image007.png>

From: Philip Chaffee <[REDACTED]>
Sent: February 23, 2023 11:41
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Anthony - I'm just checking in on this request, given the timeframe. Let me know if you have any further questions about the request.

Phil

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From: Philip Chaffee <[REDACTED]>
Sent: Wednesday, February 22, 2023 4:06:13 PM
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Anthony,

This would be for tomorrow or Friday during the CNA annual meeting in Ottawa.

I don't give questions beforehand -- that's not great journalism -- but the topics would include a big focus on the SMR Roadmap, what's next in terms of federal support, at Darlington and elsewhere, and lessons learned from this coordinated Roadmap approach. Would also ask about Canadian energy policy more largely - how refurbishments and SMRs fit in -- and potentially about exports, such as federal support for prospective nuclear exports in Romania, Argentina and potentially elsewhere.

Cheers,

Phil

Phil Chaffee
Editor, Nuclear Intelligence Weekly

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From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Sent: Wednesday, February 22, 2023 15:51
To: Philip Chaffee <[REDACTED]>
Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: RE: Meet?

Hello Phil,

Thank you for your request.

I'm contacting you from media relations at NRCan. Could you please let us know the timeline for your request/publication date, and the questions you're looking at asking?

Best regards.

Anthony Ertl
Media Relations / Relations avec les médias
Natural Resources Canada / Ressources naturelles Canada
media@nrcan-rncan.gc.ca
(342) 292-6100

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From: Philip Chaffee <[REDACTED]>
Sent: February 22, 2023 15:30
Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi I'm just checking in if there's any chance of arranging an on-the-record interview with Justin?

I'd be happy to chat to discuss details.

Phil

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From: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Sent: Tuesday, February 21, 2023 12:16:21 PM
To: Philip Chaffee [REDACTED]
Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: RE: Meet?

Phil, connecting you with Media Relations to explore a discussion.

Justin Hannah
Natural Resources Canada
437-329-1459

----- Original message -----

From: Philip Chaffee [REDACTED]
Date: 2023-02-21 9:54 a.m. (GMT-05:00)
To: Justin Hannah <[REDACTED]>
Cc: "Hannah, Justin" <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Justin,

Just checking in on this request. Either way looking forward to seeing you this week.

Cheers,

Phil

Phil Chaffee
Editor, Nuclear Intelligence Weekly

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From: Philip Chaffee <[REDACTED]>
Sent: Thursday, February 16, 2023 21:51

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To: Justin Hannah <[REDACTED]>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Sounds good!

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From: Justin Hannah <[REDACTED]>
Sent: Thursday, February 16, 2023 8:51:06 PM
To: Philip Chaffee <[REDACTED]>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Will get back to you asap on this. I will be there. Need to touchbase with comms.

On Thu, Feb 16, 2023, 5:56 p.m. Philip Chaffee <[REDACTED]> wrote:
 Hi Justin,

Will you be at the CNA next week? I'm going (for the first time) and am setting up some interviews. I was wondering if you might be willing to sit down for an on-the-record Q&A along the lines of this?

<https://www.energyintel.com/00000185-e0cb-d8e0-ab97-fefb676b0000>

	<p><u>Interview: DOE's Jigar Shah on Lending to Nuclear Projects</u></p> <p>The head of the US government's energy loan program spoke with Energy Intelligence about debt financing prospects for nuclear energy. www.energyintel.com</p>
---	---

Obviously about Canadian nukes rather than US loan guarantees, but that kind of format...

Cheers,

Phil

Phil Chaffee
 Editor, Nuclear Intelligence Weekly

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 [REDACTED]

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From: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

Sent: Tuesday, September 27, 2022 09:07

To: Philip Chaffee [REDACTED]; Justin Hannah <[REDACTED]>

Subject: RE: Meet?

I am going to the US Industry Reception today. I can also meet at the Canada booth now.

Justin Hannah
Director, Nuclear Energy Division
Natural Resources Canada
M:4373291459

----- Original message -----

From: Philip Chaffee <[REDACTED]>
Date: 2022-09-27 3:05 p.m. (GMT+01:00)
To: Justin Hannah <[REDACTED]>
Cc: "Hannah, Justin" <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

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dessous***

Fantastic. Any chance you're free at all this afternoon or evening? If not I'm here all week.

Phil

Phil Chaffee
London Bureau Chief
Deputy Editor, Nuclear Intelligence Weekly

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[REDACTED]

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From: Justin Hannah [REDACTED]
Sent: Monday, September 26, 2022 15:07
To: Philip Chaffee [REDACTED]
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Phil, happy to connect. Justin

On Mon., Sep. 26, 2022, 10:04 a.m. Philip Chaffee, [REDACTED] wrote:
Hi Justin,

Just saw that you're in Vienna this week. I imagine you're crazy busy, but if you're around for a coffee or a beer at the VIC sometime let me know. Would be good to catch up again.

Cheers,

Phil

Phil Chaffee
London Bureau Chief
Deputy Editor, Nuclear Intelligence Weekly

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From: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

Sent: Wednesday, December 1, 2021 16:12

To: Philip Chaffee [REDACTED]; Justin Hannah <[REDACTED]>

Subject: RE: Meet?

I'm here

Sent from my Bell Samsung device over Canada's largest network.

----- Original message -----

From: Philip Chaffee [REDACTED]

Date: 2021-12-01 5:05 p.m. (GMT+01:00)

To: Justin Hannah <[REDACTED]> "Hannah, Justin" <Justin.Hannah@nrcan-rncan.gc.ca>

Subject: Re: Meet?

If you're still around I'm free now.

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From: Justin Hannah [REDACTED]

Sent: Wednesday, December 1, 2021 4:33:07 PM

To: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

Cc: Philip Chaffee [REDACTED]

Subject: Re: Meet?

I can meet now at the moltex booth

On Wed., Dec. 1, 2021, 2:56 p.m. Hannah, Justin, <Justin.Hannah@nrcan-rncan.gc.ca> wrote:
I now have to go to a meeting. Will send you a note when I am done.

A0072968_21-001163

Sent from my Bell Samsung device over Canada's largest network.

----- Original message -----

From: Justin Hannah <[REDACTED]>
Date: 2021-12-01 2:42 p.m. (GMT+01:00)
To: Philip Chaffee <[REDACTED]>
Cc: "Hannah, Justin" <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

315 at Canada booth?

On Wed., Dec. 1, 2021, 2:41 p.m. Philip Chaffee, <[REDACTED]> wrote:
Cool I have an interview with EDF at 4, but could meet before then or circa 5. Let me know
when works best!

Phil

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From: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Sent: Wednesday, December 1, 2021 2:38:46 PM
To: Philip Chaffee <[REDACTED]>; Justin Hannah <[REDACTED]>
Subject: RE: Meet?

Hi Phil, happy to chat today

Sent from my Bell Samsung device over Canada's largest network.

----- Original message -----

From: Philip Chaffee <[REDACTED]>
Date: 2021-12-01 2:11 p.m. (GMT+01:00)
To: Justin Hannah <[REDACTED]> "Hannah, Justin" <Justin.Hannah@nrcan-
rncan.gc.ca>
Subject: Meet?

Hi Justin - I just saw your presentation but then lost you in the cluster after. Any chance you'd
be free later today or tomorrow to meet for a coffee or beer?

And congrats on the job!

Phil

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RE: Meet?

April 29, 2024 10:49 AM

Subject	RE: Meet?
From	Yuen, Pui Wai
To	Wilkinson, David
Cc	Prosser, Kathleen
Sent	October 13, 2023 12:25 PM

UNCLASSIFIED - NON CLASSIFIÉ

Great. Thanks Dave and Kate for this background info.

I passed along our feedback early this morning to Fred and since it's being published today, it's too late to make any changes.

He just asked if we had subscription to the news outlet of the reporter and both Dan and I said no.

Thanks, and happy to set up a meeting sometime next week to talk about all things reprocessing!

PW

From: Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>
Sent: 13 octobre 2023 12:20
To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Cc: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>
Subject: RE: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

Hi Pui Wai,

Kate is tied up, so I am following up to provide a little more elaboration to address your question. We have no record of a P. Trudeau statement on reprocessing and it's unlikely one was ever made. However, we have a record of a statement on enrichment that was made in 1973 by Minister of Energy, Mines and Resources, Donald S. MacDonald. See attached. Perhaps the two are being conflated. It is definitely not a policy and it is not anti-enrichment. It simply states factors that would have to be considered and that interested firms would have to discuss with government officials at appropriate stages for any proposals. It also conveys that the economic case was difficult at the time.

Don't forget that this is pre-NSCA and therefore the current regulatory regime. It does not address non-proliferation, which is covered under our current regime.

Cheers,

David Wilkinson

Senior Advisor – Radioactive Waste Policy / Conseiller principal – Politique sur les déchets radioactifs
 Uranium and Radioactive Waste Division / Division de l'uranium et des déchets radioactifs
 Natural Resources Canada / Ressources naturelles Canada

From: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>

A0072970_1-001166

s.21(1)(a)

s.21(1)(b)

Sent: Thursday, October 12, 2023 12:55 PM

To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>

Subject: RE: Meet?

There was no statement

Sent from my Bell Samsung device over Canada's largest network.

----- Original message -----

From: "Yuen, Pui Wai" <puiwai.yuen@NRCan-RNCan.gc.ca>

Date: 2023-10-12 12:53 p.m. (GMT-05:00)

To: "Prosser, Kathleen" <Kathleen.Prosser@NRCan-RNCan.gc.ca>, "Wilkinson, David" <david.wilkinson@NRCan-RNCan.gc.ca>

Subject: RE: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

Thanks Kate!

Do you have Pierre Trudeau's statement readily?

Thanks,
PW

From: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>

Sent: 12 octobre 2023 12:49

To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>

Subject: RE: Meet?

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Couple notes (will be unavailable after 1pm on tour):

That's a long-winded way of saying that we are open to the possibility of reprocessing, but we will have to look at it through every angle, beginning with safety, security, and nonproliferation, and that work is not currently underway.

On the Pierre Elliot Trudeau thing, if he wants to answer that more directly, there was no statement against reprocessing by the Trudeau government. There were a number of discussion in parliament related to issues of the day, including uranium enrichment, but these discussions did not result in any anti-reprocessing policies on the part of the government.

Kathleen Prosser, PhD.
(she/her/elle)

A0072970_2-001167

Uranium and Radioactive Waste Division | Natural Resources Canada
Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada

From: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Sent: Thursday, October 12, 2023 12:39 PM
To: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>; Wilkinson, David <david.wilkinson@NRCan-RNCan.gc.ca>
Subject: FW: Meet?
Importance: High

UNCLASSIFIED - NON CLASSIFIÉ

I'm going to take a look as well, but please let me know if there are any red flags on the reprocessing answers. Fred has an opportunity to add/correct by COB today.


Please let me know by 3pm.

Thanks!
PW

From: Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>
Sent: 11 octobre 2023 17:41
To: Brady, Daniel <daniel.brady@NRCan-RNCan.gc.ca>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Cc: Ottaway, Chelsea <chelsea.ottaway@NRCan-RNCan.gc.ca>
Subject: FW: Meet?

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I did this interview (approved) while at the GC. Abridged transcript below fyi

From: Philip Chaffee <>
Sent: Wednesday, October 11, 2023 5:34 PM
To: Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>
Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Fred,

Thanks again for meeting with me two weeks ago in Vienna. I've finally gotten around to transcribing the interview, and we're hoping to run it on Friday.

Please let me know tomorrow if you have any tweaks to make to your answers -- not my questions (though obviously if I'm getting something wrong in the intro or questions please let me know). If you do have tweaks, if you can highlight them or bold them it would be much appreciated.

Cheers,

Phil

Interview: Canada's Beauregard Tellier Talks Newbuilds and Reprocessing

When Frederic Beauregard-Tellier took over as the director general for nuclear energy at Natural Resources Canada (NRCan) in January, he became the government point person for one of the world's most ambitious—and most coordinated—new nuclear programs. While the momentum behind Canada's expansive nuclear plans is largely driven by provincial utilities, and in particular Ontario's Bruce Power and Ontario Power Generation (OPG), Ottawa and Natural Resources Canada have played key supportive roles in terms of planning and financing. Beauregard-Tellier sat down with Energy Intelligence's Phil Chaffee on the sidelines of the recent International Atomic Energy Agency's General Conference in Vienna to discuss the Canadian program. A shortened and edited version of their Sep. 26 conversation is below.

Q: Canada is at the center of new nuclear energy right now, particularly around small modular reactors (SMRs), but also this last year with Bruce Power coming out with the possibility of large-scale newbuilds. What role did the federal government play in this broad newbuild program, and to what extent might this role be a model for other countries contemplating new nuclear?

A: I would say we have created a policy space where it makes a lot of sense for utilities — and in our case provinces, because it's the provinces that manage their own electricity regimes in Canada— where it makes sense for those folks to pursue nuclear.

For example, we published in draft form new electricity regulations, roughly a month ago, that will effectively ban the use of fossil fuel-powered electricity starting in 2035. So no coal power, no gas power. There'll be probably some small exceptions for emergencies and things like that. 2035 is not that far away. This is of course, driven by our climate change commitments, our objective to decarbonize our economy, and decarbonize our electricity grid. For jurisdictions like Ontario, and some of our prairie provinces that that don't have a ton of hydro capacity, they need to meet baseload. A lot of them, like Saskatchewan and Alberta, they're meeting baseload through coal-fired generation and gas generation. If they can't use that going forward, there are not a ton of options.

Ontario is our biggest province, 50 million people, it's very much the economic driver of the country. And its electricity needs are projected to increase significantly as we look to 2050, as we try to kind of electrify more parts of our economy. They're well aware of that and they're trying to figure out 'How do we scale up?' Nuclear just makes a lot of sense. Ontario's had nuclear plants, Candu plants, since the 70s. They know Candu, they know nuclear. Hence that announcement from the Government of Ontario saying 'Hey, we know we need more power. Bruce is a great site. Let's start that pre-development work looking for up to 4,800 megawatts [of new nuclear capacity].' And of course, they're also doing the SMRs at Darlington.

We're happy to see Ontario doing that. We will work alongside them. They are driving this, but we have tools that we can bring to bear. Canada Infrastructure Bank, which is the federal funding arm, invested in the first SMR project at Darlington. I'm not saying they would necessarily invest in Bruce, but it's an example of things that we can do at the federal level to help those projects move along.

Q: Then there's also this 2018 SMR Roadmap, which I think was organized by NRCan.

A: And the [December 2020 SMR] Action Plan coming out of that.

Q: Was this modeled on another country? Or was it entirely a Canadian-inspired project?

A: I wasn't there at the time. My predecessor Diane Cameron [now heading the nuclear technology and economics division at the Paris-based Nuclear Energy Agency] was a big driver of this. It was Canada showing leadership. Canadians - we tend to not necessarily be out there first, but I think on SMRs we are very much in the leadership position, and that action plan puts us in the forefront of SMR development.

Q: You mentioned this Canada Infrastructure Bank investment in the Darlington SMRs — I think it was CA\$978 million (US\$720 million). As far as I understand, that funding is basically to get the project up through a final investment decision or through pouring the concrete. It's not going that's not going to fund the actual construction of the project. Is there potential for further federal money to the project?

A: I'm not sure. The Canada Infrastructure Bank is arm's length. They have a mandate from the government to invest in clean energy projects. They're very interested in nuclear, they've made investments in nuclear, I'm quite certain that they will make more investments in nuclear. Whether or not they intend to potentially invest more at Darlington, I don't know.

But I'll say we're very supportive of Darlington. We can't overemphasize how important that first BWRX-300 facility will be. Everybody's watching. We've had we've had the Polish prime minister there in the last couple of months. It's the first project of that kind, and there's a lot of interest in the technology. And if we're successful, I'm quite certain that we will see more of those projects deployed in Canada and elsewhere. In Canada, OPG has already announced that they intend to build three more at Darlington, and Saskatchewan in the last six weeks or so expressed a desire to do some feasibility work, looking to potentially site some BWRX-300 facilities in that province.

Q: The other big supportive thing that has come out of the federal government in this past year is sort of the Canadian response to the IRA [the 2022 Inflation Reduction Act, the US legislation that includes multiple support mechanisms for nuclear and new nuclear]. I'm thinking of the Investment Tax Credits [ITCs] — I guess there are two different kinds? The cleantech ITCs and the ITCs for clean energy?

A: There are a lot of ITCs.

Q: My understanding is that on the nuclear front, the cleantech ITCs will just go to SMRs, not to large reactors, but then the ITCs for clean energy could go to large or small reactors, or even refurbishments of existing Candu plants. How big a game-changer is that?

A: We like to think it's a pretty big step. It's an aggressive policy. I don't think we've ever seen a tax measure like that that's available to our utilities. Now most of our utilities are provincial Crown corporations. That means they're owned by the provincial governments. And here we have the federal government extending a fiscal benefit to a provincial entity. That's pretty unheard of in our system.

So it's an aggressive measure. There will be uptake. There's a lot of interest. I know there are consultations underway right now. The Department of Finance, they're engaging with provinces and stakeholders just trying to work out the finer details. But I think it will definitely drive investment again.

Q: There should be a Pickering announcement [on a refurbishment and life-extension of OPG's 3.1 gigawatt Pickering plant] any day, and we've also recently seen Hydro Quebec talking about potentially restarting its mothballed Gentilly-2 Candu reactor. I imagine a lot of the incentives behind these considerations come from these ITCs...

A: I should be careful not to speak for Quebec, for all kinds of reasons. But I'll say that Quebec, like Ontario, is moving in a very big way to electrify its economy. Quebec, as you no doubt know, is a hydroelectricity superpower — it has almost 30,000 megawatts of hydro capacity — but they're looking at their projections, and they need new capacity. They've got a mothballed nuclear plant at Gentilly, and so they're looking at that. I would say they're looking at all options right now to meet that expected demand.

Q: One of the third legs of the Canadian SMR program is microreactors, and one of the use cases for these is powering remote communities. When we're thinking about Yukon or remote communities in the middle of nowhere, is there a federal role in helping the deployment of microreactors?

A: Quite possibly. These are jurisdictions with 30,000 or 40,000 citizens over huge amounts of space. Even a microreactor is a pretty significant capital investment, so it's kind of hard to see—and I'm not making promises here, I'm just speaking very pragmatically—it's hard to see how an investment like that goes ahead without federal support in some capacity. But we're not at that stage of the discussions right now.

When you talk about microreactors, we're still in the demonstration phase. There's work underway at Chalk River with that USNC project [the Micro Modular Reactor project being developed by Global First Power, a joint venture of Ultra Safe Nuclear Corp. and OPG] and lots of interest, and we'll see where that goes.

But we have a lot of remote communities that are not grid-connected, that rely on diesel, so the microreactors are interesting. But there are security considerations that we're gonna have to work through, and there are a lot of issues. It's not a slam dunk. But it's an interesting prospect.

Q: Another interesting potential Canadian use case for SMRs — this time likely not microreactors — is the Alberta Oil Sands. Is decarbonization of the Oil Sands entirely a matter of how the individual operators want to proceed? Or is there any federal government role in decarbonizing the Oil Sands?

A: There are lots of conversations underway with Alberta. Our minister is very engaged, working with his Alberta colleagues. We're engaged in working with Alberta colleagues.

Alberta, and the companies active in Alberta, are keen to become less emitting producers of oil. That's what my minister has been hearing. It's true in oil. It's true in mining. We want to be responsible producers. So the companies are exploring options. And we've talked a lot about CCUS, and there's active work in that space. We have some projects underway now in Alberta.

But nuclear can be an alternative to CCUS, and I think the companies — like the Pathways Alliance of players in the Oil Sands — they are doing their due diligence, looking at the options and what makes the most sense. We're active in some of those conversations alongside Alberta. At the end of the day, the private sector has an important role in terms of

deciding what investments make the most sense. We have set pretty clear policy signals that drive them towards making those kinds of decisions, but we will remain technology agnostic. The objective is not to adopt technology X or Y, the objective is to reduce emissions.

Q: Moving onto large reactors, which you already mentioned. Bruce Power is doing a feasibility study, and I think OPG is thinking about large newbuilds in the longer term at some brownfield coal plants. I wonder from the federal perspective, as these large reactor plans pick up, is there a federal interest in pushing Candu technology - in pushing an indigenous Canadian solution?

A: The short answer is yes. It's our technology. It's a federal crown asset. It's licensed to Candu Energy [a subsidiary of AtkinsRealis, formerly SNC-Lavalin], which is a private player, but the technology is owned by the government of Canada. The IP is owned by the government of Canada. There's a lot of experience in Canada with Candu in Ontario, but also in New Brunswick and Quebec, as you mentioned earlier. So we think it can play a role. It's been helpful in terms of contributing to our energy security in Canada and I think we see we see a role for can do going forward in Canada and internationally.

At the end of the day, it is the provinces who make their own investment decision. In Ontario, which is our biggest province and the biggest nuclear player by far in Canada, it will be a government of Ontario decision, working with its utilities, in terms of which path they take when they look at potential nuclear newbuilds. We like to think that they will look favorably at Candu, but I'm sure they will explore other technologies. And we'll have those conversations and we'll see where that goes.

Q: Your positive words about Candus are a good segue to Romania, where you just announced that potentially CA\$3 billion of Export Development Canada funding will go to finance the Canadian supply chain for the completion of twin Candu 6 reactors at Romania's Cernavoda plant. Obviously, this is a unique project, as there aren't comparable Candu projects around the world. Do you foresee further Canadian nuclear exports, or do you see this as a one-off?

A: First of all, we were very happy to get to that place where we could make that announcement last week. We have a long history of collaboration with Romania on CAandu specifically, and we're proud of that. This is an important project for Romania for energy security and geostrategic reasons. And of course, there's an emissions reduction benefit which is important as well.

We think we think there can be opportunities for Candu technology in either existing markets or new markets around the world, and that will be up to Candu Energy, as the licensee, to explore. My understanding is they're having conversations in different markets and we'll see how that shakes out.

Q: As these Darlington SMRs progress, and potentially we'll get more of these BWRX-300s in Saskatchewan and beyond, there will be a fair amount of Canadian supply chain built out for these reactors. Do you see a future in which the BWRX-300 will be considered a Canadian-American reactor that the government would have an interest in promoting abroad as well?

A: Well it's US technology, but we're one of the first adopters. There inevitably will be some benefits for the Canadian suppliers. I think we will learn a lot around project

management — that's an area where OPG has a lot of experience already and is active in foreign markets through Laurentis providing those kinds of services. So there will be opportunities for Canada to support the deployment of that particular reactor in other markets. I mean, I have not seen any sort of solid economic analysis. I can't tell you Canada will get 20% of the benefit right by this point and 30% by that point. I simply don't know. But in broad strokes, I don't think we will be the primary recipient of benefits, but there will be things we can contribute, things we can offer, and that's good for Canada.

Q: As Canada expands beyond pressurized heavy water reactors (Candus) you're talking about different fuel cycles. With GE-Hitachi's BWRX-300 SMRs, it's fairly simple - just some enriched fuel, easy to get across the border. With advanced reactor vendors like USNC or Moltex you're talking about much more complex fuels, some of which need high-assay low-enriched uranium (Haleu) or even reprocessed fuel that is not available today. Is this something you see a Canadian solution to? Or are you thinking of a broader North American solution — relying on the US for some of this stuff?

A: I think addressing these challenges will require partnerships with the US and potentially other allies, and we're having those conversations. But we're eyes wide open that we cannot rely on untrustworthy sources like Russia going forward. That is very clear, and I think all of our allies are on the same page on that.

So we are actively exploring how we can reduce and ultimately eliminate our reliance on Russia. And just to be clear, we don't rely on Russia because Candu is homegrown technology and we basically have an end-to-end fuel cycle. But Russia is a big player in the LEU market, so we are working towards coming up with an allied approach to ensuring the security of fuel supply to address our needs as we start developing these SMRs. It's a priority area for us, working with the US and other partners.

Q: Are you open to the development of domestic reprocessing capabilities?

A: Obviously Moltex is active in Canada. They're doing some R&D. We don't currently have a reprocessing policy in Canada.

Q: I thought there was an anti-reprocessing policy from [former Prime Minister] Pierre Trudeau?

A: Well we are very committed to nonproliferation. We've signed onto all of the treaties. That's at the top of the agenda. There can be concerns associated with reprocessing, so we would definitely look at any reprocessing through that lens first and foremost. We are open to seeing the results of that research, and then we will see where that goes, and we will potentially make policy adjustments as necessary.

That's a long-winded way of saying that we are open to the possibility of reprocessing, but we will have to look at it through every angle, beginning with safety, security, and nonproliferation, and that work is not currently underway.

Q: I don't know how much you can answer this as a civil servant, but it seems like there has been a seismic shift in Canada on perceptions around nuclear energy. Think of Ontario 10 years ago killing a newbuild program versus now. And even just in the government itself, I think at first it opposed nuclear's inclusion in the green taxonomy and then supported it. What is behind this? We've seen it a bit in the rest of the world but Canada's is very dramatic.

A: I think there are a number of factors.

At the federal level, there's a very strong commitment to reducing our greenhouse gas emissions as we contribute to the fight against climate change. My government very much sees things through that lens. You've seen my minister, Minister [Jonathan] Wilkinson, and the prime minister [Justin Trudeau] speak very positively about nuclear as a contributor to our net zero objectives. I think there aren't a ton of ways to generate massive amounts of non-emitting electricity; there's hydro and there's nuclear, but there aren't a lot of alternatives.

Going back to Ontario canceling new nuclear in the early 2010s — there was sticker shock then. Nuclear is expensive. The capital costs are significant. We all know that. But we're seeing with other projects, like hydro projects in Canada, so are hydro projects. Building these big projects, whether it's nuclear or other energy sources, it's expensive. And I think people recognize that. The days of cheap power are kind of gone.

It's climate, it's economics, and then globally it's energy security.

Phil Chaffee

New York Bureau Chief

Editor, Nuclear Intelligence Weekly



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From: Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>

Sent: Tuesday, September 19, 2023 17:48

To: Philip Chaffee <[REDACTED]>

Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

A0072970_9-001174

Subject: Re: Meet?

Sounds good thanks Phil

Sent from my iPhone

On Sep 19, 2023, at 5:29 PM, Philip Chaffee [REDACTED] wrote:

UNCLASSIFIED - NON CLASSIFIÉ

Hi Fred - let's connect on Monday and play it by ear. It's always such a crazy week. I just sent you a message on WhatsApp, which might be the easiest way to coordinate next week.

Phil

Phil Chaffee

New York Bureau Chief

Editor, Nuclear Intelligence Weekly

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<Outlook-dqmqe5ti.png>

<Outlook-4iaqmn1e.png>

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From: Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>

Sent: Monday, September 18, 2023 13:18

To: Philip Chaffee [REDACTED]; Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

A0072970_10-001175

Subject: RE: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

Thanks Phil. I think I have open blocks of time Mon-Wed (I leave Wed evening). We can schedule now if you prefer, or we can connect on Monday and play it by ear based on our respective availability. Up to you. Look forward to chatting,

Fred
613-769-3208

Frédéric Beauregard Tellier

Director General, Nuclear Energy and Infrastructure Security Branch
Energy Systems Sector
Natural Resources Canada / Government of Canada
frederic.beauregardtellier@nrcan-rncan.gc.ca / Tel: 613-769-3208

Directeur général, direction de l'énergie nucléaire et de la sécurité des infrastructures
Secteur des systèmes énergétiques
Ressources naturelles Canada / Gouvernement du Canada
Frederic.beauregardtellier@nrcan-rncan.gc.ca / Tél: 613-769-3208

From: Philip Chaffee <[REDACTED]>
Sent: Friday, September 15, 2023 5:58 PM
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>; Beauregard-Tellier, Frédéric <frederic.beauregardtellier@nrcan-rncan.gc.ca>
Subject: Re: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

Thanks so much, Bruce!

Fred - Nice to be in touch. Is there any particular day/time that you'll be free to meet during the GC? I'll be there the entire week, and can generally meet wherever in the VIC.

I've also attached our latest so you can get a sense of what Nuclear Intelligence Weekly is.

Cheers,

Phil

Phil Chaffee
New York Bureau Chief
Editor, Nuclear Intelligence Weekly

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From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

Sent: Friday, September 15, 2023 10:47

To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>; Philip Chaffee

<[REDACTED]>

Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>; Beauregard-Tellier, Frédéric

<frederic.beauregardtellier@nrcan-rncan.gc.ca>

Subject: RE: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

Hi Phil.

Justin is leaving NRCan and will be unable to speak for the department and the Government of Canada.

However, Frédéric Beauregard-Tellier, Director General in our Energy Systems Sector, is available to be interviewed and answer questions related to the themes that you identified. Fred will be at the conference in Vienna and will be able to meet there.

Feel free to reach out directly to Fred to make arrangements. He is cc'd on this message.

We kindly ask that you cc NRCan Media Relations on any messages concerning the meeting/interview.

Please let us know if you have any questions.

Thanks!

bruce

From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

Sent: Wednesday, September 6, 2023 1:44 PM

To: Philip Chaffee <[REDACTED]>; Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>

Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

Subject: RE: Meet?

UNCLASSIFIED - NON CLASSIFIÉ

Hi Phil.

Thanks for contacting NRCan Media Relations with this request.

We are looking into it for you and will get back in touch after consulting colleagues internally.

Cheers

A0072970_12-001177

bruce

Bruce Blackie

Media Relations / Relations avec les médias
Natural Resources Canada / Ressources naturelles Canada
media@nrcan-rncan.gc.ca
(343) 598-7019

From: Philip Chaffee <[REDACTED]>
Sent: Wednesday, September 6, 2023 12:01 PM
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi I'm following up on this interview request for Justin Hannah to see if it might be possible at the IAEA GC in Vienna at the end of the month? I'll be there for the entire week (Sep. 25-29), and I'm guessing Justin will be there for at least the first half of the week.

Cheers,

Phil Chaffee

Phil Chaffee

New York Bureau Chief
Editor, Nuclear Intelligence Weekly

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From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Sent: Monday, February 27, 2023 09:46
To: Philip Chaffee <[REDACTED]>; Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: RE: Meet?

A0072970_13-001178

Thanks Phil, media relations at NRCan be in touch.

-Anthony

From: Philip Chaffee <[REDACTED]>
Sent: February 24, 2023 09:44
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Anthony,

Understood. Though it's not as ideal as an on-the-record conversation here, is there any possibility of a remote video interview at some point? If so please consider this a request. If not, Justin is often on the nuclear conference circuit -- as am I -- and I can see when we'll next overlap at an in-person conference.

Cheers,

Phil

Phil Chaffee
Editor, Nuclear Intelligence Weekly

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From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Sent: Friday, February 24, 2023 09:34
To: Philip Chaffee <[REDACTED]>; Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: RE: Meet?

Hi Phil,

Thanks for following up. I appreciate the themes provided but at this point our media relations

team would need more time to discuss with the program area and therefore cannot give the go-ahead for an interview to take place in person at the conference.

If you have additional time for this request, we could consider an interview in the future, or alternatively, written responses to questions that you provide.

Thank you and best regards.

Anthony Ertl

Media Relations / Relations avec les médias
Natural Resources Canada / Ressources naturelles Canada
media@nrcan-rncan.gc.ca
(342) 292-6100

<image007.png>

From: Philip Chaffee <[REDACTED]>
Sent: February 23, 2023 11:41
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Anthony - I'm just checking in on this request, given the timeframe. Let me know if you have any further questions about the request.

Phil

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From: Philip Chaffee <[REDACTED]>
Sent: Wednesday, February 22, 2023 4:06:13 PM
To: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Anthony,

This would be for tomorrow or Friday during the CNA annual meeting in Ottawa.

I don't give questions beforehand -- that's not great journalism -- but the topics would include a big focus on the SMR Roadmap, what's next in terms of federal support, at Darlington and elsewhere, and lessons learned from this coordinated Roadmap approach. Would also ask about Canadian energy policy more largely - how refurbishments and SMRs fit in -- and potentially about exports, such as federal support for prospective nuclear exports in Romania, Argentina and potentially elsewhere.

Cheers,

Phil

Phil Chaffee
Editor, Nuclear Intelligence Weekly

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From: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Sent: Wednesday, February 22, 2023 15:51
To: Philip Chaffee <[REDACTED]>
Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: RE: Meet?

Hello Phil,

Thank you for your request.

I'm contacting you from media relations at NRCan. Could you please let us know the timeline for your request/publication date, and the questions you're looking at asking?

Best regards.

Anthony Ertl
Media Relations / Relations avec les médias
Natural Resources Canada / Ressources naturelles Canada
media@nrcan-rncan.gc.ca
(342) 292-6100

<image007.png>

From: Philip Chaffee <[REDACTED]>
Sent: February 22, 2023 15:30
Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi I'm just checking in if there's any chance of arranging an on-the-record interview with Justin?

I'd be happy to chat to discuss details.

Phil

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From: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Sent: Tuesday, February 21, 2023 12:16:21 PM
To: Philip Chaffee <[REDACTED]>
Cc: Media (NRCan/RNCan) <media@nrcan-rncan.gc.ca>
Subject: RE: Meet?

Phil, connecting you with Media Relations to explore a discussion.

Justin Hannah
Natural Resources Canada
437-329-1459

----- Original message -----

From: Philip Chaffee <[REDACTED]>
Date: 2023-02-21 9:54 a.m. (GMT-05:00)
To: Justin Hannah <[REDACTED]>
Cc: "Hannah, Justin" <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Justin,

Just checking in on this request. Either way looking forward to seeing you this week.

Cheers,

Phil

Phil Chaffee
Editor, Nuclear Intelligence Weekly

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A0072970_17-001182

From: Philip Chaffee <[REDACTED]>
Sent: Thursday, February 16, 2023 21:51
To: Justin Hannah <[REDACTED]>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Sounds good!

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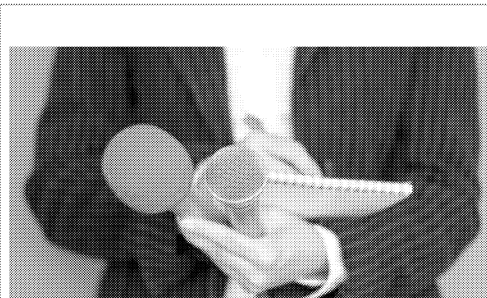
From: Justin Hannah <[REDACTED]>
Sent: Thursday, February 16, 2023 8:51:06 PM
To: Philip Chaffee <[REDACTED]>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Will get back to you asap on this. I will be there. Need to touchbase with comms.

On Thu, Feb 16, 2023, 5:56 p.m. Philip Chaffee <[REDACTED]> wrote:
Hi Justin,

Will you be at the CNA next week? I'm going (for the first time) and am setting up some interviews. I was wondering if you might be willing to sit down for an on-the-record Q&A along the lines of this?

<https://www.energyintel.com/00000185-e0cb-d8e0-ab97-fefb676b0000>



Interview: DOE's Jigar Shah on Lending to Nuclear Projects

The head of the US government's energy loan program spoke with Energy Intelligence about debt financing prospects for nuclear energy.
www.energyintel.com

Obviously about Canadian nukes rather than US loan guarantees, but that kind of format...

Cheers,

Phil

Phil Chaffee
Editor, Nuclear Intelligence Weekly

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From: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

Sent: Tuesday, September 27, 2022 09:07

To: Philip Chaffee <[REDACTED]>; Justin Hannah <[REDACTED]>

Subject: RE: Meet?

I am going to the US Industry Reception today. I can also meet at the Canada booth now.

Justin Hannah
Director, Nuclear Energy Division
Natural Resources Canada
M:4373291459

----- Original message -----

From: Philip Chaffee <[REDACTED]>

Date: 2022-09-27 3:05 p.m. (GMT+01:00)

To: Justin Hannah <[REDACTED]>

Cc: "Hannah, Justin" <Justin.Hannah@nrcan-rncan.gc.ca>

Subject: Re: Meet?

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Attention- Ce courriel provient de l'extérieur des RNCan. Voir la mise en garde ci-dessous***

Fantastic. Any chance you're free at all this afternoon or evening? If not I'm here all week.

Phil

Phil Chaffee

London Bureau Chief

Deputy Editor, Nuclear Intelligence Weekly

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From: Justin Hannah <[REDACTED]>
Sent: Monday, September 26, 2022 15:07
To: Philip Chaffee <[REDACTED]>
Cc: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

Hi Phil, happy to connect. Justin

On Mon., Sep. 26, 2022, 10:04 a.m. Philip Chaffee, <[REDACTED]> wrote:
Hi Justin,

Just saw that you're in Vienna this week. I imagine you're crazy busy, but if you're around for a coffee or a beer at the VIC sometime let me know. Would be good to catch up again.

Cheers,

Phil

Phil Chaffee
London Bureau Chief
Deputy Editor, Nuclear Intelligence Weekly

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A0072970_20-001185

s.19(1)

by mistake and delete this email from your system.

From: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

Sent: Wednesday, December 1, 2021 16:12

To: Philip Chaffee <[REDACTED]>; Justin Hannah <[REDACTED]>

Subject: RE: Meet?

I'm here

Sent from my Bell Samsung device over Canada's largest network.

----- Original message -----

From: Philip Chaffee <[REDACTED]>

Date: 2021-12-01 5:05 p.m. (GMT+01:00)

To: Justin Hannah <[REDACTED]> "Hannah, Justin" <Justin.Hannah@nrcan-rncan.gc.ca>

Subject: Re: Meet?

If you're still around I'm free now.

Get Outlook for iOS

From: Justin Hannah <[REDACTED]>

Sent: Wednesday, December 1, 2021 4:33:07 PM

To: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>

Cc: Philip Chaffee <[REDACTED]>

Subject: Re: Meet?

A0072970_21-001186

I can meet now at the moltex booth

On Wed., Dec. 1, 2021, 2:56 p.m. Hannah, Justin, <Justin.Hannah@nrcan-rncan.gc.ca> wrote:
I now have to go to a meeting. Will send you a note when I am done.

Sent from my Bell Samsung device over Canada's largest network.

----- Original message -----

From: Justin Hannah <[REDACTED]>
Date: 2021-12-01 2:42 p.m. (GMT+01:00)
To: Philip Chaffee <[REDACTED]>
Cc: "Hannah, Justin" <Justin.Hannah@nrcan-rncan.gc.ca>
Subject: Re: Meet?

315 at Canada booth?

On Wed., Dec. 1, 2021, 2:41 p.m. Philip Chaffee, <[REDACTED]> wrote:
Cool I have an interview with EDF at 4, but could meet before then or circa 5. Let me know
when works best!

Phil

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From: Hannah, Justin <Justin.Hannah@nrcan-rncan.gc.ca>
Sent: Wednesday, December 1, 2021 2:38:46 PM
To: Philip Chaffee <[REDACTED]>; Justin Hannah <[REDACTED]>
Subject: RE: Meet?

Hi Phil, happy to chat today

Sent from my Bell Samsung device over Canada's largest network.

----- Original message -----

From: Philip Chaffee <[REDACTED]>
Date: 2021-12-01 2:11 p.m. (GMT+01:00)
To: Justin Hannah <[REDACTED]> "Hannah, Justin" <Justin.Hannah@nrcan-

rncan.gc.ca>
 Subject: Meet?

Hi Justin - I just saw your presentation but then lost you in the cluster after. Any chance you'd be free later today or tomorrow to meet for a coffee or beer?

And congrats on the job!

Phil

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s.19(1)

s.21(1)(a)

From: Tanya.Hinton@international.gc.ca
To: [Yuen, Pui Wai](#); [Prosser, Kathleen](#);
Subject: 5th Letter addressed to Minister Joly
Sent: 2024-01-03 12:07:58 PM

Happy New Year Kate and Pui Wai!

I wanted to share with you the email below that has been sent to Minister Joly. I will work on a draft reply and consult you on it before sending through for approvals.

You will see at the bottom he has offered to set up a discussion on zoom focused on non-proliferation. [REDACTED]

Best,
Tanya

.....

To: Joly, Mélanie -MINA[Melanie.Joly@international.gc.ca]
Cc: [REDACTED] Susan
O'Donnell[susanodo.ca@gmail.com]
Subject: Canada Government's Promotion of Plutonium Separation
Sent:
From: [REDACTED]

[Letter to Prime Minister Trudeau re Proposed Plutonium Separation from CANDU Spent Fuel, 25May2021.pdf](#)
[Second Letter to Prime Minister Trudeau re Canada's funding of Moltex spent-fuel-reprocessing proposal \(27July2021, final\).pdf](#)
[Third Letter to Prime Minister Trudeau \(24 November 2021 final with typo fixed\).pdf](#)
[Fourth Letter to Prime Minister Trudeau re plutonium separation in Canada \(22Sept2023\).pdf](#)
[Response from Canada Minister of Natural Resources Wilkinson 5Jan2022.pdf](#)
[Response from Canada Minister of Natural Resources O'Regan 13Aug2021.pdf](#)
[Some fuels never learn. US Energy Department returns to costly and risky plutonium separation technology \(FvH BAS Sept. 2022\).pdf](#)

Dear Minister Joly,

Two and a half years ago, a group of high-level US non-proliferation experts wrote the first attached letter of concern to Prime Minister Trudeau about the award of CN\$50 million by the Ministry of Natural Resources to a nuclear startup, Moltex, which proposed to build a

reprocessing facility in New Brunswick to separate plutonium from spent CANDU spent fuel to fuel a molten salt reactor that Moltex also proposed to build.

Moltex promoted these projects as the beginning of an industry that would make Canada a hub for the production and export of such plants.

We expressed concern that both Canada and the United States had both forgotten the lesson from their export of a heavy water reactor and reprocessing technology to India in the late 1960s, which provided India with the technologies required to produce and separate plutonium for weapons, ultimately resulting in a nuclearized South Asia. We proposed that Canada do a nonproliferation review of Moltex's proposal.

The Prime minister's office forwarded our letter to the Ministries of Natural Resources and Global Affairs for response. (See the end of this e-mail.)

Moltex responded to our open letter and we critiqued those responses in follow-on letters to Prime Minister Trudeau (also attached).

We also received the attached letters from two successive Ministers of Natural Resources. They indicated their hopes for the Moltex project and reassured us that, if the plants were built, they would be subject to full safety and nonproliferation reviews.

Our view, however, is that the nonproliferation reviews should come before funding the development of potentially proliferating technology and we believe that is in your remit. We wonder therefore why we have not heard from your Ministry?

I must acknowledge that we have similar concerns about a program to promote reprocessing R&D that has been launched by two offices in the US Department of Energy: the Office of Nuclear Energy and the Advanced Projects Research Administration – Energy. We have also written a letter of concern to President Biden's cabinet and I recently co-authored the attached article in the Bulletin of the Atomic Scientists, which the editors titled, "Some Fuels Never Learn."

Both the US and Canada are rightly concerned about climate warming, and both have advocates of nuclear as well as renewable energy and energy efficiency. Both governments may be funding nuclear R&D and pilot projects – even economically unpromising ones – to show that they are not biased against nuclear energy. But the Hippocratic Oath says "first do no harm" and, when it comes to funding reprocessing research and development, we are concerned that harm is being done.

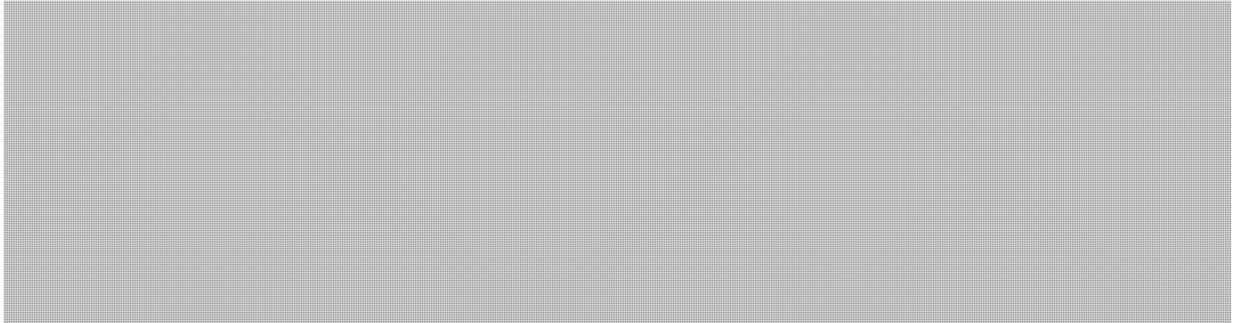
I therefore urge that your Ministry not continue to sit on the sidelines of this debate and that you organize a nonproliferation review of proposals to reprocess spent CANDU fuel.

If it might be helpful to you, I could recruit a few of my colleagues with the most relevant expertise for a Zoom discussion with your nonproliferation experts on the above issues.

s.19(1)

I am copying two Canadian colleagues who have helped us bring our concerns to the attention of the Canadian public.

Sincerely yours and with best wishes for the holidays,



s.19(1)

From: Tanya.Hinton@international.gc.ca
To: [Prosser, Kathleen](#); [Yuen, Pui Wai](#);
Subject: Consult: Draft reply to 5th Letter addressed to Minister Joly
Attachments: Draft Reply to [REDACTED] v2.docx
Sent: 2024-01-05 1:13:12 PM

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Further to my message below, please find attached a draft reply. The draft reiterates many things that have already been said in your letters, but I tried to add a few additional GAC-focused things, including a reference to our policy and NCAs.


I would be most grateful for your review and input by mid-week next week if possible.

Thanks,
Tanya

From: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>
Sent: Wednesday, January 3, 2024 12:17 PM
To: Hinton, Tanya -IGN <Tanya.Hinton@international.gc.ca>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Subject: RE: 5th Letter addressed to Minister Joly

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Déclassifié par l'AIPI
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Thanks for sharing Tanya and Happy New Year to you as well!



Defer to you folks on a path forward here fully, engaging with people out of country is squarely not my wheelhouse. Happy to support where possible and look forward to seeing the reply.

Thanks!
-Kate

Kathleen Prosser, PhD.
(she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada
Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada

From: Tanya.Hinton@international.gc.ca <Tanya.Hinton@international.gc.ca>
Sent: Wednesday, January 3, 2024 12:08 PM
To: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>; Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>

s.19(1)

s.21(1)(a)

You will see at the bottom he has offered to set up a discussion on zoom focused on non-proliferation.

Best,
Tanya

.....

To: Joly, Mélanie -MINA[Melanie.Joly@international.gc.ca]
Cc: [REDACTED] Susan
O'Donnell[susanodo.ca@gmail.com]
Subject: Canada Government's Promotion of Plutonium Separation
Sent:
From: [REDACTED]

[Letter to Prime Minister Trudeau re Proposed Plutonium Separation from CANDU Spent Fuel, 25May2021.pdf](#)
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[Response from Canada Minister of Natural Resources Wilkinson 5Jan2022.pdf](#)
[Response from Canada Minister of Natural Resources O'Regan 13Aug2021.pdf](#)
[Some fuels never learn. US Energy Department returns to costly and risky plutonium separation technology \(FvH BAS Sept. 2022\).pdf](#)

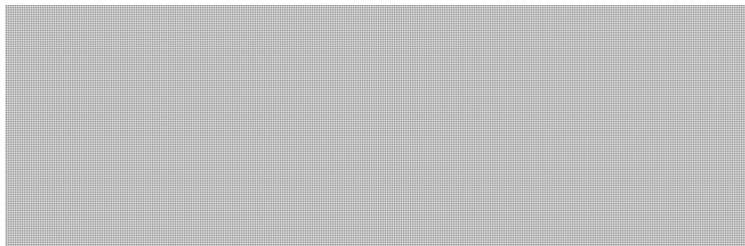
Dear Minister Joly,

Two and a half years ago, a group of high-level US non-proliferation experts wrote the first attached letter of concern to Prime Minister Trudeau about the award of CN\$50 million by the Ministry of Natural Resources to a nuclear startup, Moltex, which proposed to build a reprocessing facility in New Brunswick to separate plutonium from spent CANDU spent fuel to fuel a molten salt reactor that Moltex also proposed to build.

Moltex promoted these projects as the beginning of an industry that would make Canada a hub for the production and export of such plants.

We expressed concern that both Canada and the United States had both forgotten the lesson from their export of a heavy water reactor and reprocessing technology to India in the late 1960s, which provided India with the technologies required to produce and separate plutonium for weapons, ultimately resulting in a nuclearized South Asia. We proposed that Canada do a nonproliferation review of Moltex's proposal.

[letterhead to be added by editors]



Thank you for your correspondence of 20 December 2023, concerning the reprocessing of used nuclear fuel, as well as the previous four letters sent to Prime Minister Trudeau on this issue, all of which departmental officials have carefully reviewed.

Moltex Energy Ltd did receive funding from Innovation, Science and Economic Development Canada in March 2021. This funding was to support two activities: the development of a Stable Salt Reactor – Wasteburner, and the WASTE To Stable Salts (WATSS) process that looks to make use of used nuclear fuel to produce energy. The funding to WATSS was to enable research that will allow a better understanding of the proposed technology.

As stated in the reply letter from Natural Resources Canada on 2 November 2023, the Government of Canada is closely monitoring the research and development of technologies related to the reprocessing of used fuel in Canada, as part of efforts to stay abreast of the science, benefits, and risks associated with potential fuel-cycle technologies. Moreover, this research and development is being conducted with the full knowledge and oversight of the International Atomic Energy Agency (IAEA), pursuant to Canada's obligations under its safeguards agreements, which include an Additional Protocol. The Government of Canada is committed to undertaking a thorough review of all relevant factors related to reprocessing, including safety, security, sustainability, and non-proliferation implications prior to any consideration or authorization to deploy such technology in Canada.

Canada is a staunch supporter of the international nuclear non-proliferation regime and will continue to uphold its obligations and commitments towards the peaceful uses of nuclear technology. This includes commitments and controls over reprocessing of nuclear materials found in Canada's nuclear non-proliferation policy and bilateral Nuclear Cooperation Agreements, which govern the non-proliferation obligations of peaceful nuclear trade.

The Department notes the offer to arrange a non-proliferation focused discussion with Canadian non-proliferation leads. On 17 November 2023, Government officials met with a network of Canadian representatives from civil society and academia, including the two Canadian colleagues copied on this exchange, to share perspectives on reprocessing used nuclear fuel in Canada, including perspectives related to non-proliferation. Should you wish to arrange a discussion with your non-proliferation experts and Canadian colleagues, please contact Tanya Hinton, Senior Advisor, Non-Proliferation and Disarmament Division, Global Affairs Canada at 646-684-5018 or tanya.hinton@international.gc.ca.

Thank you for your continued engagement on this important issue.

Sincerely,

The Honourable Mélanie Joly, P.C., M.P.

From: Tanya.Hinton@international.gc.ca
To: [Prosser, Kathleen](#)
Cc: [Yuen, Pui Wai](#)
Subject: RE: Consult: Draft reply to 5th Letter addressed to Minister Joly
Sent: 2024-01-12 9:00:42 AM

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Thank you both. I have deleted the reference to WATSS in that sentence and changed "technology" to "technologies".

Will send you the final reply once we have approved.

Tanya

From: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>
Sent: Thursday, January 11, 2024 8:55 AM
To: Hinton, Tanya -IGN <Tanya.Hinton@international.gc.ca>
Cc: Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Subject: FW: Consult: Draft reply to 5th Letter addressed to Minister Joly

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Good morning Tanya,

Thanks for the opportunity to review, Pui Wai had one comment that you can see in the attached.

Happy to discuss and please let me know if need anything else from us. You'll also see we (finally!) responded to [REDACTED] email after a chaotic few weeks over the holidays.

All the best,
Kate

Kathleen Prosser, PhD.
(she/her/elle)

Uranium and Radioactive Waste Division | Natural Resources Canada
Division de l'uranium et des déchets radioactifs | Ressources naturelles Canada

From: Tanya.Hinton@international.gc.ca <Tanya.Hinton@international.gc.ca>
Sent: Friday, January 5, 2024 1:13 PM
To: Prosser, Kathleen <Kathleen.Prosser@NRCan-RNCan.gc.ca>; Yuen, Pui Wai <puiwai.yuen@NRCan-RNCan.gc.ca>
Subject: Consult: Draft reply to 5th Letter addressed to Minister Joly

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Further to my message below, please find attached a draft reply. The draft reiterates many things that have already been said in your letters, but I tried to add a few additional CAC

s.21(1)(a)

s.21(1)(b)

From: Tanya.Hinton@international.gc.ca
To: david.moroz@cnscccsn.gc.ca
Cc: [Yuen, Pui Wai](#)
Subject: Re: Invitation to a Roundtable Discussion of Reprocessing Nuclear Fuel Waste - REVISED DATE - Friday, November 17, 10 am Eastern
Attachments: image002.jpg
Sent: 2023-11-10 4:10:37 PM

Hi David

It's true that we did both agree to join this discussion. The positions of those requesting the meeting are fairly well known, 

There is a prep call to coordinate between NRCan GAC and CNSC on Tuesday. Lee Brunarski kindly set it up. Would be good for you to join that if you will join this meeting.

Tanya

On Nov 10, 2023, at 3:46 PM, Moroz, David <david.moroz@cnscccsn.gc.ca> wrote:

Subject: Update on used fuel reprocessing
Location: Microsoft Teams Meeting

Start: Mon 2023-10-23 8:30 AM
End: Mon 2023-10-23 9:00 AM
Show Time As: Tentative

Recurrence: (none)

Organizer: Brunarski, Lee

Hello.

This purpose of this meeting is to get an update on work that NRCan is going to be undertaking in the area of used fuel reprocessing.

Thanks,

Lee

Microsoft Teams meeting

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(844) 632-5179,, [REDACTED] Canada (Toll-free)
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