

**Canadian Nuclear
Safety Commission**

**Commission canadienne de
sûreté nucléaire**

Public hearing

Audience publique

Cameco Corporation:

Application by Cameco
Corporation for the Renewal of
Class IB Nuclear Fuel Facility
Operating Licence for Port Hope
Conversion Facility in Ontario

Cameco Corporation :

Demande de Cameco Corporation
pour le renouvellement de son permis
d'exploitation de son installation de
conversion du combustible nucléaire
de catégorie IB à Port Hope en
Ontario

November 3rd, 2011

Le 3 novembre 2011

Public Hearing Room
14th floor
280 Slater Street
Ottawa, Ontario

Salle d'audiences publiques
14^e étage
280, rue Slater
Ottawa (Ontario)

Commission Members present

Commissaires présents

Dr. Michael Binder
Dr. Moyra McDill
Mr. Dan Tolgyesi
Dr. Ronald Barriault
Mr. André Harvey

M. Michael Binder
Mme Moyra McDill
M. Dan Tolgyesi
M. Ronald Barriault
M. André Harvey

Secretary:

Secrétaire:

Mr. Marc Leblanc

M. Marc Leblanc

General Counsel :

Conseillère générale:

Ms. Lisa Thiele

Mme Lisa Thiele

1 --- Upon resuming

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THE CHAIRMAN: It's still good morning.

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The next item on the agenda is hearing day one on the matter of the application by Cameco Corporation for the renewal of Class 1B nuclear fuel facility operating licence for Port Hope conversion facility in Port Hope, Ontario.

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Marc.

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Cameco Corporation:

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Application by Cameco

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Corporation for the Renewal of

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Class 1B Nuclear Fuel Facility

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Operating Licence for Port Hope

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Conversion Facility in Ontario

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THE REGISTRAR: So the notice of public

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hearing 2011 H08 was published on August 24th, 2011.

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Submissions were received from Cameco and CNSC staff by

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the deadline, including the supplementary information

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which were the slide decks representations that were filed

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last week.

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Commission member document 11-H16A is

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confidential and will not be discussed in closed session

1 as the Commission has determined that it was not
2 necessary.

3 Day two of the public hearing is scheduled
4 for January 18th and 19, 2012 and will be held at the Town
5 Park Recreation Center in Port Hope. The public is
6 invited to participate either by oral presentation or
7 written submission at the day two hearing. The deadline
8 for the public to file a request is December 19th.

9 In a notice published on August 16th the
10 CNSC announced that it is allotting funds under a its
11 present funding program; October 14 was the deadline to
12 file a request. And the Commission received two requests
13 for funding regarding the Port Hope conversion facility.

14 Just for your information we will conduct
15 the hearing until 12:30 where we're going to break for a
16 one hour lunch and resume this hearing after lunch.

17 Thank you.

18 **THE CHAIRMAN:** Thank you, Marc. So I'd
19 like to start by calling on the presentation from Cameco
20 Corporation as outlined in CMD 11-H16.1 and 16.1A. Mr.
21 Thorne, the floor is yours.

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23 **11-H16.1 / 16.1A**

24 **Cameco Corporation**

25 **Oral Presentation**

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MR. THORNE: Yeah. Andy Thorne for the record. Thank you, President Binder, Members of the Commission.

It's my pleasure to be able to introduce this morning to my left Mr. Dale Clark, he's the General Manager of our Port Hope conversion facility. And to his left is Ms. Rebecca Peters, who is the superintendent of compliance and licensing at the facility. And Mr. Clark is going to walk us through a presentation.

So thank you, Dale.

MR. CLARK: Thank you. For the record I'm Dale Clark, general manager of the conversion facility. And I'll be making today's presentation on behalf of the conversion facility.

So the Port Hope conversion facility currently has a five-year operating licence from the CNSC which expires at the end of February, 2012. Cameco is also licensed for storage facilities at a second site situated at Dorset Street East in the municipality of Port Hope. And as you'll note from our application we are not requesting any changes be made to our current operating licence.

At Cameco we are committed to safe, clean and reliable operation of our facilities. We maintain

1 programs, plans and procedures to continually improve our
2 environmental performance and ensure the safety of both
3 our employees and our neighbours.

4 Our operating performance demonstrates the
5 strength of our commitment. The radiation exposures
6 within our operations fall well below dose limits. Our
7 environmental emissions are only a fraction of the
8 regulatory limits. And public radiation exposures are
9 well below established limits. These metrics demonstrates
10 that we are qualified to carry out future activities.

11 The application we've submitted reaffirms
12 Cameco's commitment to the safe, clean and reliable
13 operation of the Port Hope conversion facility. During
14 this presentation I will highlight some main points under
15 each of the safety and control areas as described in the
16 application.

17 As part of Cameco's commitment to the safe,
18 clean, reliable operation of our facility we develop
19 objectives, budgets and strategic plans based on our four
20 key measures of success. The first of these measures of
21 success is a safe, healthy and rewarding workplace.

22 I'm pleased to inform the Commission that
23 during this licence period our employees' safe work habits
24 helped the facility achieve more than one million hours
25 worked without a lost time incident.

1 Under the clean environment measure of
2 success the conversion facility, which was the first site
3 in Cameco to be registered to the ISO 14001 environmental
4 management system was reregistered earlier this year.
5 This is a significant undertaking and commitment.

6 For supportive communities Cameco also
7 works to build and sustain the trust of the local
8 communities in which we operate. A public opinion survey
9 conducted in 2011 found that in the community 87 percent
10 support or strongly support Cameco's continued operations.
11 We work hard for this community engagement and are very
12 proud of the result.

13 Under outstanding financial performance and
14 to ensure the long-term sustainability of our operation
15 the conversion facility is implementing a multi-year
16 operational reliability initiative that will improve our
17 maintenance processes, operational oversight and support
18 services.

19 The conversion facility continues to
20 strengthen our management systems during this licence
21 period, which is the first of the safety and control areas
22 I will speak to.

23 As you heard from Mr. Thorne during his
24 presentation Cameco created a fuel services division
25 central management structure during the current licence

1 period in order to improve the oversight of Cameco's
2 Ontario operations.

3 We also implemented several corporate-wide
4 processes at the conversion facility. The facility
5 adopted the corrective action process, or CAP process, to
6 improve the quality of internal accident and incident
7 investigations.

8 The Cameco incident reporting system, or
9 CIRS, was also implemented and it provides a company-wide
10 central database to document events and provides a
11 mechanism for tracking corrective actions. This tool
12 gives greater access for all employees and allows us to
13 access information from other sites within Cameco and
14 share learnings as well.

15 As noted earlier, we were re-registered to
16 the ISO 14001 environmental management system standard
17 which is an internationally recognized standard for
18 environmental management and drives continual improvement
19 in our processes.

20 Cameco has also joined the CANDU Owners
21 Group, or COG, and is working through other national and
22 international nuclear organizations to share experiences
23 and learn from others.

24 During the licence period, the facility has
25 had a strong focus on leadership development. We've used

1 a wide range of training programs to develop more
2 effective and strategic organizational leaders and
3 reinforce succession planning.

4 At the conversion facility, we have a
5 number of programs that combine to create the framework
6 for a safe environment and foster a sustainable safety
7 culture.

8 We have implemented a systematic approach
9 to training, or SAT, that covers initial employee training
10 and routine requalification training. This new approach
11 to training was implemented very successfully in the UF6
12 plant in 2010 and is on target with our commitment to
13 implement in the UO2 plant and all in-scope positions by
14 the end of 2011.

15 The conversion facility continues to
16 strongly emphasize effective communication with employees
17 at all levels of the operation. Enhanced communications
18 have been used for several initiatives including safety
19 stand downs, general manager town hall meetings, shift
20 crossover meetings, management-shop floor presence, daily
21 management 24-hour review meetings and event
22 notifications.

23 Cameco also encourages employees to build
24 and maintain a questioning attitude with respect to
25 health, safety, radiation protection and environmental

1 management at the site. This has been a significant
2 effort and success in recent years.

3 To proactively address workforce
4 requirements, a workforce and succession planning process
5 was initiated in 2010. This planning identifies and
6 reviews critical and key workforce positions with
7 mitigation or transition plans developed for them. This
8 process allows for effective knowledge transfer within the
9 operations.

10 In terms of past operating performance, the
11 Port Hope Conversion Facility demonstrated the strength of
12 our safety culture and commitment to the safe operations
13 of our facility with the achievement of more than one year
14 and over one million hours worked without a lost-time
15 incident.

16 The conversion facility has not exceeded
17 any CNSC regulatory limits during the current licence
18 period.

19 Also, during this period, we have reduced
20 uranium emissions through the installation of HEPA filters
21 in both production plants and safely managed waste
22 materials, including the removal of historic depleted
23 uranium metal, contaminated concrete and soil and carbon
24 anodes.

25 We also made a significant capital

1 investment into industry-leading liquid management
2 practices as part of applying the lessons learned from the
3 sub-surface contamination beneath the UF6 plant in 2007.

4 In addition, our fluoride emissions have
5 also been reduced through modifications and improvements
6 to the scrubber system in the UF6 plant.

7 As mentioned earlier, the continued
8 implementation of the conversion facility's operational
9 reliability process will be a significant site focus
10 during the upcoming licence period. This will improve the
11 facility's fitness for service and overall reliability of
12 equipment and processes. This operational reliability
13 program is being implemented through a new change
14 management process to ensure that this shift in operating
15 approach is effective and sustainable.

16 Safety analysis is a systematic evaluation
17 of the potential hazards associated with an activity and
18 considers the effectiveness of preventive measures and
19 strategies in reducing the effects of such hazards.
20 Examples of this include the safety report and fire hazard
21 analysis, or FHA, used at the conversion facility to
22 ensure we continue to operate in a safe, clean and
23 reliable manner.

24 The facility maintains an FHA that meets
25 the requirements of the National Fire Protection

1 Association or NFPA 801 Standard for fire protection which
2 was achieved during the current licence period. The FHA
3 has been accepted by CNSC and is consistent with industry
4 standards.

5 Many other specific assessments have been
6 conducted to ensure the safety of our operations. This
7 includes a site-wide risk assessment that focused on soil
8 and groundwater contamination on site and concluded that
9 it presents no significant risk to the public or the
10 environment.

11 Other assessments include a harbour wall
12 study to assess its overall stability. A probable maximum
13 flood and probable maximum precipitation study, both of
14 which found that neither will significantly impact the
15 facility.

16 Screening level risk assessments were also
17 done by third-party experts for UF6 an anhydrous hydrogen
18 fluoride service to assess the risk and summarize
19 opportunities to further enhance the safety of those
20 systems, all of which have been addressed.

21 Also in this section, Cameco has retained
22 third-party experts to help review and apply lessons
23 learned from the events at the Fukushima Daiichi Nuclear
24 Power Plant earlier this year. Our initial assessment
25 which is supported by the CNSC staff review concluded that

1 the facility is safe with respect to the public, workers
2 and the environment and is capable of mitigating both
3 natural and man-made risks.

4 Cameco has committed to conducting
5 additional modelling of worst case or beyond design basis
6 events by the end of this year and incorporating these
7 into our pre-incident plans early in 2012.

8 Substantial changes were made during the
9 current licence period to ensure that the physical design
10 of the site is maintained. Cameco invested approximately
11 \$80 million into industry-leading liquid management
12 infrastructure in both the UF6 and UO2 plants. This is a
13 major commitment by Cameco into the facility and the
14 continued safe, clean and reliable operations well into
15 the future.

16 As well, Cameco replaced the main stack on
17 the UF6 plant and installed HEPA filters on building
18 ventilation in both the UF6 and the UO2 plants.

19 During the current licensing period, Cameco
20 also made improvements to the fire protection systems
21 within both operating plants, installing fire water
22 retention tanks and upgrading the sprinkler systems.

23 Fitness for service covers the activities
24 that impact on the physical condition of the system's
25 components and structures to ensure that they remain

1 effective over time. In this area and over the licence
2 period, the facility has enhanced its preventive
3 maintenance, or PM program, and integrated PMs into the
4 work notification system in SAP. SAP is Cameco's chosen
5 application software used for asset management,
6 maintenance management, accounting and purchasing
7 functions.

8 The conversion facility entered into an
9 agreement with the Provincial Technical Standards and
10 Safety Authority, or TSSA, in 2010 to ensure that
11 oversight of pressure retaining components and systems
12 continues to be carried out by a third-party expert. As
13 part of this process, Cameco continues to utilize non-
14 destructive examination techniques to assess the integrity
15 of pressure vessels and related systems.

16 Cameco also conducted both in-house and
17 third-party testing for fire protection systems in the
18 licensing period.

19 With respect to radiation protection, the
20 Port Hope Conversion Facility has not exceeded any CNSC
21 limits during the current licence period. While the
22 radiation protection program has been effective, Cameco
23 has also made significant improvements as part of its
24 continual improvement program. This has been accomplished
25 by such things as obtaining a dosimetry licence in 2008

1 for urine analysis and lung counting programs and the
2 upgrading of analytical equipment used in the dosimetry
3 program.

4 We have also implemented an automated dose
5 assignment system that assigns doses to all routine
6 dosimetry, urinalysis samples above the minimum detection
7 level and provides a more accurate assessment of employee
8 dose.

9 Other improvements in this area of
10 radiation protection include the installation of new
11 whole-body monitors in 2010. This allows us to increase
12 whole-body screening frequency to every time an employee,
13 contractor, or visitor leaves the main entrance of the
14 facility.

15 We also commissioned alpha-in-air monitors
16 throughout both the UO2 and UF6 plants that provide real-
17 time local alarm of elevated uranium -- ambient uranium
18 concentration.

19 In 2010, we also developed performance
20 based action levels for all fence line gamma monitoring
21 locations. Overall the employee and public exposure
22 results over the licensing period clearly show that the
23 radiation protection program is highly effective at
24 controlling the dose to employees and the public.

25 Going forward, Cameco will continue to look

1 for ways to reduce employee exposure and in-plant uranium-
2 in-air levels.

3 In terms of conventional health and safety,
4 as previously mentioned, the facility achieved over one
5 million hours lost-time injury free in September 2010.

6 This is tremendous accomplishment and one
7 that all employees are extremely proud of and also look
8 forward to exceeding and setting new records in the next
9 licensing period.

10 I would like to point out one discrepancy
11 on page 29, Table 7 of our CMD. The 2007 figure for lost-
12 time injuries should be two instead of one, as it reads in
13 the staff CMD.

14 Also as a brief update, we did experience a
15 minor lost-time injury in September of this year due to
16 heat stress related conditions bringing our 2011 total to
17 three LTIs.

18 Recognizing the importance of occupational
19 health and safety, additional full-time positions have
20 been developed and filled in this area during the
21 licensing period. These include a dedicated
22 superintendent for this department, an additional
23 occupational health and safety officer and a permanent
24 safety representative position from the Union. These
25 additional resources enhance oversight with respect to

1 safety at the facility and demonstrate Cameco's commitment
2 to the safety of our people and protection of the
3 community in which we operate.

4 Other significant achievements include the
5 implementation of an arc flash program, a staged start-up
6 approach for the UF6 plant that has been very successful
7 at reducing incidents during plant start-ups, and the
8 implementation of a formal contractor-management program
9 to improve our focus on the safe work within this group on
10 site.

11 For environmental protection, the Port Hope
12 Conversion Facility experienced no exceedences of CNSC
13 regulatory limits during the current licensing period. In
14 this area, both federal and provincial regulatory
15 authorities have legislated jurisdiction at the facility.
16 To that end, Cameco monitors air and liquid effluent
17 discharges to ensure that they meet applicable provincial
18 and federal requirements.

19 Cameco has invested significant resources
20 to gain a better understanding of subsurface conditions at
21 the facility. This confirmed that the subsurface
22 conditions posed no unreasonable risk to the public, our
23 workers or the environment. Despite this fact, Cameco
24 continued with the development and implementation of a
25 site-wide environmental management plan which recently

1 expanded our groundwater collection system by more than 40
2 percent.

3 Also, to reduce the total uranium emissions
4 from the facility, Cameco invested approximately \$3
5 million dollars in HEPA filters for both UF6 and UO2
6 building ventilation sources in 2008 and 2009. We have
7 made improvements to our scrubber system to reduce the HF
8 emissions, and a comprehensive groundwater collection
9 system was installed during this period. We also continue
10 to maintain environmental management programs such as the
11 Air Emissions Management Strategy, which ensures a
12 systematic review and management of current and future
13 emissions.

14 Finally, in this section I would also like
15 to point out that although we ceased discharging our
16 liquid process effluent in 2007, we have significantly
17 added to the demand on our treatment operations with the
18 addition of a comprehensive groundwater collection system.
19 As a result, we recognize that we are close to capacity of
20 the current treatment system and may need to add
21 additional capacity in the future. This could include a
22 treated liquid process effluent discharge. Therefore, we
23 are requesting a change to the draft licence before you so
24 that we maintain the flexibility in our current licence to
25 discharge treated liquid process effluent.

1 The safety of our employees and the public
2 is Cameco's first priority. As such, we invest heavily to
3 ensure we are well prepared for emergency management and
4 fire protection. This area has improved dramatically over
5 the licence period. Emergency response is carried out
6 through the facility's Emergency Response Plan, and we
7 meet all regulatory requirements applicable to our
8 facility. An emergency response and training agreement
9 between Cameco and the municipality of Port Hope provides
10 an additional layer to our emergency response capability.
11 This ensures that the two response organizations have the
12 opportunity to train together, to prepare for emergencies
13 that could require a joint response.

14 Also as part of the agreement, Cameco
15 provides the Port Hope Fire and Emergency Services with
16 the necessary equipment and training to effectively
17 respond in a support role to emergencies at the conversion
18 facility. To continually provide a high level of
19 response, a number of drills, exercises and courses are
20 conducted, including anhydrous hydrogen fluoride
21 responses, industrial firefighting and hazardous materials
22 response.

23 At Cameco, protection of the environment is
24 one of the foundations of our work, and we have strong
25 programs in place to ensure we appropriately manage waste

1 streams. During the licensing period, the chemical bi-
2 products generated by the processes were recycled for
3 uranium recovery.

4 Cameco has initiated many pathways for
5 waste management during the licence period. Some key
6 accomplishments included the successful recycling of 360
7 tons of depleted uranium metal; the management of bulk
8 wastes, both soil and concrete arising from the
9 remediation of the UF6 and UO2 plants; and the safe
10 management of approximately 300 tonnes of spent carbon
11 anodes from flooring production at the UF6 plant at a
12 hazardous waste landfill.

13 Existing waste management programs for the
14 recycling of the chemical bi-products and contaminated
15 wastes will be maintained. Cameco is also committed to
16 the continuing management of wastes generated from
17 operations as well as legacy materials.

18 The Conversion Facility Security Plan and
19 Procedures meet CNSC regulatory requirements. The CNSC's
20 Nuclear Security Division conducts routine inspections at
21 the site. Overall, the security program is well managed
22 and developed and we will continue to look for
23 opportunities to enhance the existing program.

24 Cameco is required to comply with the
25 Government of Canada International Atomic Energy Agency or

1 IAEA Safeguards Agreement, specifically as it relates to
2 uranium inventory and material transfer records. During
3 the current licensing period, we have successfully
4 participated in the full range of required IAEA/CNSC
5 inventory verifications as well as several short notice
6 random inspections.

7 Cameco will be developing new software in
8 the next licensing period that will allow for better
9 tracking and reporting of uranium inventory at the site.
10 The new software will also allow quicker generation of
11 inventory data to facilitate the IAEA's and CNSC's
12 inspection regime.

13 The safe packaging and transport of nuclear
14 substances to and from the facility is an important part
15 of Cameco's commitment to safe, clean and reliable
16 operations. UO₂ is produced, packaged in drums and
17 transported by road from the conversion facility to Cameco
18 fuel manufacturing in Port Hope and other domestic and
19 international fuel manufacturing facilities. UF₆ is
20 produced and transported in approved cylinders by both
21 road and marine shipment methods. Cameco's Emergency
22 Response Assistance Plan is on file with Transport Canada
23 and has been fully approved.

24 As well the Transportation Emergency
25 Response Organization Team is a well-equipped team of

1 experienced hazardous materials responders who work
2 routinely with Cameco products and can be quickly
3 mobilized from the Port Hope Conversion Facility.

4 Other matters of regulatory interest
5 include environmental assessments and Aboriginal
6 consultations. Cameco's Vision 2010 Project is currently
7 in the EA process. This project will see a significant
8 portion of legacy, contamination and buildings removed
9 from the site. It is anticipated that licensing will
10 begin for this project as a separate process in 2012.

11 At Cameco, we have been consulting
12 Aboriginal communities about our operations through site
13 tours, community visits, and public information sessions.
14 We continue to include the Chiefs of the five nearest
15 First Nations on a mailing list to ensure that the First
16 Nations are aware of all community forums and other
17 community events. In addition, Cameco has met with the
18 Métis Nation of Ontario.

19 Regarding cost recovery, Cameco has stayed
20 current with all regulatory cost recovery fees and there
21 are no additional or other matters at this time. For
22 financial guarantees, Cameco submitted an updated
23 Preliminary Decommissioning Plan or PDP in 2010, which was
24 accepted in 2011. Cameco will update the letter of credit
25 for the full amount of the revised decommissioning costs

1 and provide a copy of the letter to the CNSC.

2 During the licensing period, the Port Hope
3 Conversion Facility applied for and received required
4 operational approvals from the MOE, and Cameco currently
5 has an application for a new comprehensive certificate of
6 approval being reviewed by the MOE. This new
7 comprehensive certificate of approval will replace the
8 current one.

9 One of Cameco's key measures of success is
10 support of communities. We strive to give residents a
11 clear idea of what's happening in our facilities and to
12 answer questions through a range of activities that make
13 up our public information program.

14 During the licence period, 18 community
15 forums were held with approximately 1,800 participants
16 attending. More than 126,000 newsletters were sent to
17 Port Hope homes. Cameco also unveiled the redesigned
18 website for Fuel Services Division that provides
19 information about all three operations that comprise the
20 division. The new site is easier to navigate and includes
21 new sections that include quarterly and annual compliance
22 reports and outline any reportable environmental incidents
23 at each facility.

24 Our community relationships are very
25 important to us. In the second quarter of 2011 a survey

1 was conducted that showed 87 percent of residents are
2 supportive of the continuation of Cameco's operations in
3 Port Hope. The complete results of this public opinion
4 research are posted on Cameco's website and confirm that
5 Cameco's public information program is seen as effective
6 and appropriate by the vast majority of Port Hope
7 residents.

8 Cameco does maintain the required nuclear
9 liability insurance for the Port Hope Conversion Facility
10 and at this time there are no additional or other matters
11 to discuss that Cameco is requesting not already covered
12 in this Application.

13 In conclusion, Cameco has robust programs
14 and processes that ensure the safe, clean and reliable
15 operation of our site today and into the future. I
16 believe we have clearly demonstrated that we are qualified
17 to receive a new five-year operating licence with no
18 changes from the current licence conditions as we are
19 requesting.

20 That concludes my presentation and I will
21 look forward to answering questions.

22 **THE CHAIRMAN:** Thank you.

23 I'd like to now hear from a presentation by
24 CNSC and as outlined in CMD H-16.

25 Peter Elder, please proceed.

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11-H16

Oral presentation by

CNSC staff

MR. ELDER: Thank you.

My name is Peter Elder; Director General of the Directorate of Nuclear Cycle and Facilities Regulation. With me for this presentation is Mr. B.R. Ravishankar, Director of the Processing and Research Facilities Division, and we have other members of our CNSC licensing compliance team. I would like to note that our project officer for this file actually his wife had a baby last week so he's not available today, which is why Mr. Ravishankar will be doing most of the presentation.

We are here to present the Commission Member Document 11-H16 regarding the licence renewal of the Cameco Port Hope Conversion Facility.

As per -- as with other presentations we've divided into seven parts with the introduction and then going on to our review of the licence application, compliance verification and our assessment of the licensee's performance. Then we go into what are the matters -- other matters of regulatory interest focused on this facility before presenting our conclusions and

1 recommendations.

2 So I will now turn the presentation over to
3 Mr. Ravishankar for the next portion.

4 Thank you.

5 **MR. RAVISHANKAR:** Good morning, Mr.
6 President and Members of the Commission. For the record,
7 my name is B.R. Ravishankar.

8 Cameco Corporation, hereinafter referred to
9 as Cameco, owns and operates a Class 1B nuclear fuel
10 conversion facility under a nuclear fuel facility
11 operating licence.

12 The Port Hope Conversion Facility is
13 located within the municipality of Port Hope, Ontario,
14 situated on the north shore of Lake Ontario approximately
15 100 kilometres east of Toronto.

16 Cameco employs approximately 400 workers at
17 their Port Hope Conversion Facility where uranium
18 conversion processing commenced in the 1950s.

19 This slide provides an aerial view of
20 Cameco's Port Hope Conversion Facility. The water body
21 along the left border of the photograph is Lake Ontario.
22 A harbour turning basin is located adjacent to the
23 conversion facility. The land between the turning basin
24 and the mouth of the Ganaraska River is referred to as the
25 centre pier property, which can be seen towards the bottom

1 right corner of the slide. Commercial and residential
2 areas are located north of the property.

3 I would like to now draw your attention to
4 the following buildings at the Port Hope Conversion
5 Facility. The uranium hexafluoride processing plant is
6 located at the top centre of the photo and labelled as UF6
7 plant. The uranium dioxide processing plant is located at
8 the bottom centre of the photo and is labelled as UO2
9 plant. The metals plant is located near the uranium
10 dioxide processing plant.

11 The centre pier property consists of a
12 storage building, a laydown area for shipping cylinders,
13 and an outdoor temporary storage facility for excavated
14 soil from the recently built municipal water treatment
15 plant located on the west side of the Port Hope Conversion
16 Facility.

17 The Port Hope Conversion Facility maintains
18 a second site with two buildings that are used primarily
19 for storage. This site is situated in the area of Nelson
20 Street and Dorset Street East in the Municipality of Port
21 Hope. A picture of that site is not shown in this slide,
22 but can be found on page 7 of the CMD.

23 At the Port Hope Conversion Facility Cameco
24 primarily converts uranium trioxide powder, which was
25 produced at Cameco's Blind River Refinery, to two

1 different products, namely uranium hexafluoride and
2 uranium dioxide.

3 Uranium dioxide produced here is used as a
4 feed material in the manufacture of CANDU reactor fuel,
5 and the uranium hexafluoride produced here is exported for
6 further processing into fuel for light water reactors.

7 In addition, the Port Hope Conversion
8 Facility operates a specialty metals plant involving
9 uranium metal reduction and casting operations. The site
10 also includes analytical and research laboratories and
11 waste storage.

12 I will continue with our presentation this
13 morning by speaking to Cameco's current operating licence.

14 The Port Hope Conversion Facility is
15 currently licensed as a Class 1B facility with a five-year
16 operating licence which will expire in February 2012. The
17 licence is in good standing. The facility is licensed to
18 produce up to 2,800 tonnes of uranium dioxide, 12,500
19 tonnes of uranium hexafluoride and 2,000 tonnes of uranium
20 castings from its specialty metals plant.

21 The last public hearings associated with
22 this facility were during licence renewal held in 2006 and
23 a mid-term performance review in 2009.

24 The following slide will cover the extended
25 outage of the uranium hexafluoride processing plant.

1 There was one major event during the
2 current licence period in mid-2007. Cameco's uranium
3 hexafluoride processing plant, which is shown as the UF6
4 plant in the picture on Slide 4, was shut down following
5 the discovery of contaminated soil in that location during
6 excavation activities to replace a cooling water tank.
7 Subsequent investigation determined that the contamination
8 had reached the groundwater table underneath the building
9 thereby prompting the shutdown of uranium hexafluoride
10 processing plant.

11 As part of the increased regulatory
12 oversight due to this incident, CNSC staff required Cameco
13 to conduct a comprehensive review of the whole site as
14 well as address immediate environmental impacts. In
15 response, Cameco installed a groundwater capture and
16 treatment system referred to as a pump and treat system in
17 order to prevent the groundwater contamination from
18 flowing into the turning basin. This pump and treat
19 system has been in operation since early 2008 with new
20 groundwater wells being installed thereafter. The results
21 from the groundwater monitoring wells are showing
22 decreasing trends in the concentrations of contaminants.

23 Cameco was also required to conduct a human
24 health and ecological risk assessment. This report
25 concluded that no immediate adverse effects are expected

1 from the residual subsurface contamination, historic
2 contamination in the turning basin, as well as shore off
3 Lake Ontario.

4 The uranium hexafluoride processing plant
5 was later returned to service in 2009 following extensive
6 inspections by CNSC staff. CNSC staff reported this
7 information to the Commission in 2009 during the mid-term
8 performance report and through early notification
9 reporting.

10 As part of the required investigations into
11 the event Cameco identified several gaps in aging
12 management of the facility and they have made several
13 improvements to address the gaps along with other
14 improvement initiatives. These will be presented in the
15 following slides.

16 Cameco has improved the building
17 components, especially below ground level, as well as the
18 liquid effluent collection systems for both the uranium
19 dioxide and uranium hexafluoride processing plants.

20 They installed additional fire protection
21 systems in accordance with the requirement of the National
22 Fire Protection Association, NFPA 801, and have undertaken
23 a major revision to the Port Hope Conversion Facility's
24 quality management program manual including improvements
25 to their design change control procedure.

1 The next two slides will cover CNSC staff's
2 assessment of Cameco's licence renewal application
3 including CNSC staff's proposed changes to the licence.

4 In April, 2011, Cameco submitted its
5 licence renewal application for the Port Hope Conversion
6 Facility. Cameco's application did not request any
7 specific changes to the current licence terms and
8 conditions. Cameco has requested a five-year licence
9 term.

10 CNSC staff reviewed Cameco's licence
11 renewal application against the CNSC's regulatory
12 requirements. Based on this review, CNSC staff concluded
13 that Cameco's application was complete and it met the
14 regulatory requirements.

15 Next, we will present CNSC staff's proposed
16 changes to the new operating licence.

17 As part of this licence renewal, CNSC has
18 also proposed some changes to the licence.

19 During the last several years, CNSC staff
20 has updated and reorganized its safety and control areas
21 into 14 defined safety and control areas. CNSC staff has
22 also updated its licence format and introduced a licence
23 conditions handbook. While the licensee remains
24 responsible for safe operation of the facility, CNSC staff
25 will continue regulatory oversight of licensee's

1 compliance based on the requirements specified in the
2 licence conditions handbook.

3 These changes are part of the revised CNSC
4 licensing framework that allows for better clarity to the
5 licensee on CNSC compliance verification criteria and
6 provides an effective change control process. The changes
7 were done as part of CNSC's efforts to harmonize its
8 licensing and compliance framework, as well as to align
9 its processes with global policies. These changes have
10 been incorporated in the proposed new licence and licence
11 conditions handbook for Cameco and CNSC staff recommend
12 that the Commission approve them as part of the proposed
13 new licence.

14 This slide provides a brief description of
15 CNSC staff's compliance verification plan during the
16 licence period for the Port Hope Conversion Facility.

17 Compliance activities are governed in
18 accordance with the compliance activity plan for any given
19 licensed facility that is based on the relative risks for
20 various safety and control areas. The risk ranking for
21 these facilities is reviewed periodically, most recently
22 about a year ago.

23 For the Port Hope Conversion Facility, the
24 compliance verification plan consists of multiple
25 inspections of Cameco's safety-related systems and

1 programs, desktop reviews of Cameco's submissions
2 including quarterly and annual compliance report, third-
3 party reviews of facility modifications, event reports and
4 licence program documents, reactive inspections following
5 events, assessment of Cameco's proposed corrective action
6 plans to address deficiencies found during compliance
7 inspections; as well, verification of Cameco's effective
8 and timely compliance -- completion of corrective actions.
9 Deficiencies raised during inspections and desktop reviews
10 have been addressed by Cameco through corrective actions.

11 Overall, CNSC staff's compliance plan for
12 the Port Hope Conversion Facility is consistent with the
13 CNSC's risk-informed regulatory approach.

14 In the next slide, we will present CNSC
15 staff's overall assessment of the Port Hope Conversion
16 Facility's performance.

17 Cameco's Port Hope Conversion Facility
18 continues to maintain comprehensive and mature core
19 programs; among them, radiation protection, environmental
20 protection and conventional health and safety.

21 From their assessment, CNSC staff conclude
22 that Cameco's Port Hope Conversion Facilities have been
23 operated in a manner that is safe and in compliance with
24 CNSC regulatory requirements.

25 Certain areas of improvement were

1 identified during on-site inspections and desktop reviews
2 particularly in the management system and quality
3 assurance areas. Cameco has put in place initiatives and
4 improvements that are taking hold.

5 CNSC staff have increased their focus and
6 oversight for the safety and control area. For example,
7 CNSC staff continue to see improvements in Cameco's
8 implementation of its incident reporting system. CNSC
9 staff's complete review of the performance of the Port
10 Hope Conversion Facility, during the licence period, is
11 described in CMD 11-H16.

12 Overall, Cameco has operated the facility
13 safely and its performance in all safety and control areas
14 is satisfactory.

15 Slides 14 and 15 summarize CNSC staff's
16 assessment of Cameco's performance in the 14 safety and
17 control areas. These ratings represent performance of the
18 overall site and not specific to either the uranium
19 hexafluoride or uranium dioxide processing plants.

20 The Port Hope Conversion Facility achieved
21 satisfactory performance ratings in all safety and control
22 areas. These include areas shown in the slide management
23 systems, human performance management, operating
24 performance, safety analysis, physical design, fitness for
25 service and radiation protection. No safety and control

1 area has been assigned a downward trend in performance.

2 As a result of CNSC staff's increased
3 regulatory oversight and request, Cameco developed an
4 internal qualification procedure for the operators and
5 supervisors of the uranium hexafluoride processing plant.
6 CNSC staff also verified that the qualification procedures
7 were implemented satisfactorily by Cameco. For this
8 reason, CNSC staff assigned an improving trend for the
9 human performance management area.

10 This slide shows that Cameco achieved
11 satisfactory performance ratings for conventional health
12 and safety, environmental protection, emergency management
13 and fire protection, waste management, security,
14 safeguards and packaging and transport for the Port Hope
15 Conversion Facility.

16 Information pertaining to the safety and
17 control area of security is protected and is submitted
18 separately in CMD 11-H16.A.

19 The following slides will provide
20 additional information on Cameco's performance at the Port
21 Hope Conversion Facility for the key performance
22 indicators; radiation protection, environmental protection
23 and conventional health and safety.

24 Radiation protection; Through various
25 compliance verification activities described earlier, CNSC

1 staff conclude that Cameco's Port Hope Conversion Facility
2 has a comprehensive radiation protection program. The
3 airborne radiological emissions from the Port Hope
4 Conversion Facility remain a fraction of the regulatory
5 limit. The regulatory limit related the emissions of
6 radioactive material to the calculated dose to the most
7 exposed member of the public.

8 For the Port Hope Conversion Facility, the
9 calculated dose to the most exposed member of the public
10 is less than one-tenth of the annual regulatory dose limit
11 of 1 millisievert per year. In fact, the licence limit
12 for a public dose for a conversion facility is 0.3
13 millisieverts per year.

14 The radiological exposures associated with
15 the operation of the Port Hope Conversion Facility are due
16 to alpha, beta and gamma radiation. The Port Hope
17 Conversion Facility's radiation protection program is
18 robust in controlling and monitoring of radiation doses to
19 workers as low as reasonably achievable.

20 The following slide shows the average and
21 maximum dose to Port Hope Conversion Facility workers over
22 the licence period.

23 This slide presents the annual effective
24 radiation dose, which is an indication of radiation
25 exposure to a nuclear energy worker. The data is taken

1 from Cameco's annual compliance reports for the years 2006
2 through 2010.

3 Cameco has monthly and quarterly action
4 levels for internal and external dose to workers. The
5 average effective dose to workers at the Port Hope
6 Conversion Facility during the current licence period is
7 low; approximately 1.7 millisieverts per year or 3.4
8 percent of the annual regulatory dose limit.

9 CNSC staff would like to correct an error
10 on page 30 of staff's CMD. In section 3.7.2, under
11 "Worker Radiation Exposures and Public Dose," the maximum
12 annual, individual, whole-body dose to a worker at the
13 Port Hope Conversion Facility is 26 millisieverts for a 5-
14 year dosimetry period 2006 through to 2010, which
15 represents 26 percent of the regulatory limit of 100
16 millisieverts over a 5-year period. Radiation doses to
17 workers at the Port Hope Conversion Facility are well
18 below the regulatory limits.

19 Environmental protection; Cameco's Port
20 Hope Conversion Facility's environmental protection
21 program is intended to identify, control and monitor all
22 releases of radioactive and hazardous materials and its
23 impact on the environment from facilities are as a result
24 of licensed activities. Port Hope conversion facility
25 maintains a comprehensive environmental monitoring program

1 through which air emissions, fluorides and vegetation,
2 surface water, ground water and soil monitoring are
3 conducted.

4 Currently the Port Hope conversion facility
5 evaporates on site liquid effluent and there are no liquid
6 effluent releases to surface water. The only interaction
7 with surface water pertains to cooling water used at the
8 uranium dioxide processing plant, which is regulated under
9 the Ministry of Environment permitting process.

10 Cameco installed a ground water pump and
11 treat system which includes extraction wells adjacent to
12 the south and east sides of the uranium hexafluoride
13 processing plant. The operation of the pump and treat
14 system has resulted in the capture of contaminant plumes
15 originating under the footprint of the uranium
16 hexafluoride processing plant, thus reducing the loadings
17 to the turning basin.

18 Overall, CNSC staff conclude that Cameco
19 environmental protection program is satisfactory.

20 In order to provide some examples of
21 releases to the environment in this slide we show the
22 annual average uranium emissions to air at the uranium
23 hexafluoride processing plant.

24 You will note that the 2008 data shows
25 lower than expected emissions because the extended --

1 because of the extended outage of the uranium hexafluoride
2 processing plant at that time. The 2011 data is current
3 as of June 30th of this year.

4 The license limit for uranium emission
5 currently in place for the Port Hope conversion facility
6 will remain the same as per the proposed licence. This
7 limit is based on the calculated dose of -- to the public
8 of 0.05 millisievert per year, which is 20 times more
9 stringent than the regulatory limit of one millisievert
10 per year dose to the public.

11 In addition, CNSC staff requested Cameco to
12 review their action levels to reflect its current
13 operational performance of the facility. The main purpose
14 of these action levels is to give early warning for the
15 process (inaudible) poor performance of emission control
16 systems.

17 As requested Cameco completed the review of
18 action levels and proposed more stringent action levels as
19 part of its continuous improvement objective. CNSC staff
20 have reviewed and accepted the proposed reduced action
21 levels.

22 The new action levels are specified in the
23 licence conditions handbook given in part two of the CMD.
24 Overall there were no action level or release limit
25 exceedances from the uranium hexafluoride processing plant

1 over the licensed period.

2 Slide 20 shows the annual average emissions
3 from the uranium dioxide processing plant. Lower than
4 expected emissions occurred in 2008 due to the extended
5 outage of the uranium hexafluoride processing plant. The
6 data from 2011 is as of June 30th, 2011.

7 The uranium action level for the uranium
8 dioxide processing plant was exceeded three times in 2009
9 and once in 2010. These exceedance, which were slightly
10 above the action level but well below the licence limit
11 were the result of either calculation discrepancies or the
12 maintenance of stack sampling equipment.

13 To address these issues Cameco developed
14 corrective action plans to CNSC staff's satisfaction.
15 Cameco has applied a correction factor for the uranium
16 emission calculations to prevent future discrepancies in
17 their data. And they have improved their maintenance
18 procedures for their stack sampling equipment.

19 CNSC staff will continue to monitor
20 Cameco's performance on these matters at the Port Hope
21 conversion facility.

22 Slide 21 summarizes the changes to the
23 proposed licence limits and action levels for the Port
24 Hope conversion facility. The current uranium release
25 limits are based on the criteria of 0.05 millisievert dose

1 to a member of the public and CNSC staff is not proposing
2 any changes to this limit.

3 Action levels have been devised for uranium
4 fluorides and ammonia releases from Port Hope conversion
5 facility. The action level for uranium releases from the
6 uranium dioxide processing plant remains unchanged.

7 With respect to the new uranium in air
8 standard proposed by the Ministry of the Environment in
9 Ontario, Cameco has stated that the Port Hope conversion
10 facility will be in compliance with these new limits when
11 the standard is implemented in 2016.

12 The table in slide 22 illustrates the
13 number of recordable lost time injuries reported by Cameco
14 in their annual compliance report over the licence period.
15 The data from 2011 is as of June 30th of this year. A
16 recordable lost time injury is defined as a work-related
17 injury requiring professional or medical assessment and
18 treatment where the employee is not able to return to work
19 for the next scheduled shift.

20 Cameco has recently informed CNSC staff
21 that there was a minor heat stress related injury that was
22 reclassified as a lost time injury during the third
23 quarter of this year. Overall, CNSC staff are satisfied
24 with Cameco's even detection reporting and investigation
25 processes.

1 The following slides will detail other
2 matters of regulatory interest. CNSC staff has determined
3 that an environmental assessment under the Canadian
4 Environmental Assessment Act is not required for licence
5 renewal of Port Hope conversion facility. Cameco has a
6 mature public information program, which includes
7 communicating to the public through a dedicated website,
8 as well as community forums and a public communication
9 plan for site emergencies.

10 Periodic reports are made available to the
11 Port Hope municipality on environmental monitoring results
12 for the Port Hope conversion facility site.

13 In terms of cost recovery the Port Hope
14 conversion facility is in good standing. Cameco's revised
15 preliminary decommissioning for the Port Hope conversion
16 facility has been recently reviewed and accepted by CNSC
17 staff. The current financial guarantee by Cameco is
18 maintained in the form of an irrevocable letter of credit.
19 Based on the revisions to the preliminary decommissioning
20 plan Cameco's financial guarantee amount would be revised
21 from \$96,000,000 to \$101.7 million. CNSC staff have
22 recommended that the commission accept the revised
23 financial guarantee.

24 As part of this relicensing process CNSC
25 staff identified and sent letters of notification to 12

1 aboriginal groups and organizations. The letters included
2 a copy of two license applications and provided
3 information on the public hearings and the availability of
4 participant funding. Follow up phone calls were made to
5 confirm receipt and answer questions. To date no concerns
6 have been raised about the licence renewals. However,
7 aboriginal groups still have the opportunity to intervene
8 in the day two hearing.

9 As the commission secretary mentioned, CNSC
10 has also made participant funding available for this
11 licence renewal process to aid and encourage interveners.

12 Port Hope Vision 2010 is Cameco's plan to
13 cleanup, modernize and improve the Port Hope conversion
14 facility. Vision 2010 activities will be carried out in
15 conjunction with the Port Hope area initiative in
16 collaboration with the municipality of Port Hope, the
17 "Grand B" project as well as the Government of Canada.

18 Cameco has submitted its Vision 2010
19 environmental impact statement to the CNSC which is
20 currently under review. A draft comprehensive study
21 report was written by CNSC staff based on Cameco's draft
22 environmental impact statement, which was then made
23 available to the public for comment.

24 The public comment period on the draft
25 comprehensive study report ended on October 22nd. The

1 public comments will be taken into consideration and where
2 appropriate the comprehensive study report will be amended
3 and then delivered to the Commission for acceptance. The
4 Vision 2010 project is not a part of Cameco's current
5 licence renewal hearings.

6 A new licence, or a licence amendment will
7 be issued for Vision 2010 only if the Ministry of the
8 Environment decides that the project will not likely
9 result in the significant environmental effects after
10 mitigation measures are put in place.

11 In March, 2011 the CNSC staff issued a
12 request for actions pursuant to Subsection 12-2 of the
13 general nuclear safety and control regulations requiring
14 Cameco to review (inaudible) and to re-examine the safety
15 cases and vulnerabilities for facilities at the Port Hope
16 conversion facility. With focus on external hazards such
17 as seismic, flooding and fire events.

18 Cameco submitted their final evaluation
19 report to CNSC staff in August of this year. And
20 concluded that Port Hope conversion facility is safe with
21 respect to the public, workers and the environment. And
22 is capable of mitigating both natural and man-made risks.

23 The report identified one gap related to
24 the beyond design basis extreme scenario modelling for the
25 Port Hope Conversion Facility. CNSC staff's preliminary

1 review supports Cameco's conclusions.

2 As part of their final evaluation, Cameco
3 developed an action plan to detail the corrective actions
4 needed to address the gap, and committed to finalize this
5 by March of 2012. CNSC staff has requested that Cameco
6 provide periodic progress updates during that time.

7 Mr. Peter Elder will now provide CNSC staff
8 conclusions and recommendations to the Commission.

9 **MR. ELDER:** Thank you.

10 CNSC staff conclude that Cameco's
11 application for licence renewal for the Port Hope
12 conversion facility meets the requirements of the *Nuclear*
13 *Safety and Control Act* and its regulations.

14 Cameco has operated the Port Hope facility
15 in compliance with the CNSC's regulatory requirements and
16 Cameco is qualified to carry on the activities as per the
17 proposed licence for the proposed five-year licence term.

18 The last few slides presented staff's
19 review and conclusions on Cameco's application for licence
20 renewal, and their performance during the licence period.

21 CNCN staff recommend that the Commission
22 accept CMD 11-H16 and renew Cameco's five-year nuclear
23 fuel facility operating licence for the Port Hope
24 Conversion Facility. We also recommend that the
25 Commission accept the revised financial guarantee.

1 This concludes CNSC staff presentation, and
2 we are now available to answer any questions.

3 **THE CHAIRMAN:** I guess questions will have
4 to wait until after lunch. As promised, we're going to
5 break for one hour -- maybe 1:30, let's reconvene at 1:30.
6 Thank you.

7

8 --- Upon recessing at 12:36 p.m. /

9 L'audience est suspendue à 12h36

10 --- Upon resuming at 1:32 p.m. /

11 L'audience est reprise à 13h32

12

13 **THE CHAIRMAN:** Okay, we are back, and we're
14 going to start to open up the floor for questions from
15 Commissioners, and the first one is Dr. Barriault.

16 **MEMBER BARRIAULT:** Thank you, Mr. Chairman.

17 My first question is to Cameco. You
18 thought it necessary to restructure, reorganize your
19 Occupational Health Department. Do you want to explain to
20 me how you've gone about doing that; the type of
21 individuals that you have involved are they industrial
22 hygienists or are they occupational nurses, occupational
23 physicians? Just briefly an overview.

24 **MR. CLARK:** Sure. Dale Clark, for the
25 record.

1 The changes that I spoke to with regard to
2 occupational health and safety, there were essentially
3 three new positions, full-time positions, added during the
4 current licensing period.

5 The first is a dedicated superintendent
6 role. That's a person to provide the overall oversight
7 and leadership for that specific group of the occupational
8 health and safety.

9 The second was a second and additional
10 health and safety officer. That's somebody who spends the
11 vast majority of the time in the plant, in the field,
12 observing and assisting in terms of health and safety
13 issues in the plant.

14 And then the third, and the most recent
15 position that was added and filled during this period, was
16 a full-time union representative, safety representative
17 position. And that was something that we've worked on
18 collectively to get to, over a number of years. That just
19 helps add the focus and the sense of co-operation and
20 collaboration in this common goal of safe work and,
21 clearly, a significant demonstration of our commitment to
22 health and safety.

23 **MEMBER BARRIAULT:** The level of training of
24 these individuals, do you have a specific minimum
25 requirement that you ask? For example, are they trained

1 and industrial hygiene certified? The same thing with
2 your nurses; or if you have nurses, I don't know.

3 **MR. CLARK:** Yes. Dale Clark again, for the
4 record.

5 We do have trained nursing staff that's
6 on-site at all times there during the daytime in that
7 position. For some of the new positions and the health
8 and safety officers, those are trained and certified in
9 the field of safety. Those are certified and qualified
10 people that we filled in those roles.

11 **MEMBER BARRIAULT:** And they answer to whom
12 in the organization?

13 **MR. CLARK:** Well, first off, I would say
14 ultimately, you know, as general manager, I -- you know, I
15 am accountable and responsible ---

16 **MEMBER BARRIAULT:** Okay.

17 **MR. CLARK:** --- for the overall safety and
18 driving the safety culture of the site.

19 All of those positions, and the
20 superintendent reporting of the occupational health and
21 safety, report to our technical manager. So the technical
22 manager position includes a little bit more than just
23 occupational health and safety, but also the radiation and
24 environment and compliance in licensing. That technical
25 manager position reports to me as general manager.

1 **MEMBER BARRIAULT:** But that obviously falls
2 under occupational health and safety also; radiation
3 protection falls ---

4 **MR. CLARK:** Yes.

5 **MEMBER BARRIAULT:** Yes.

6 **MR. CLARK:** That's right.

7 **MEMBER BARRIAULT:** My next question,
8 really, is to CNSC. You rated the occupational health
9 program as being satisfactory. There's been some
10 improvements, so obviously Cameco didn't find that it was
11 satisfactory. Would you change your approach to this at
12 this time or are you just relying o somebody else's data?

13 **MR. RAVISHANKAR:** Ravishankar, for the
14 record.

15 During each compliance verification
16 inspection that CNSC staff conduct, one aspect is also
17 about Cameco practices that are in place to prevent
18 injuries. So when any findings are identified, Cameco
19 responds in a timely manner, and that is the main reason
20 why we have rated this safety and control area as
21 satisfactory. However, continuous improvement of course
22 is always welcome.

23 **MEMBER BARRIAULT:** I agree. So the arrow
24 should be going up instead of going straight on your
25 assessment. I'm sorry, ---

1 **MR. ELDER:** Not to ---

2 **MEMBER BARRIAULT:** Yes.

3 **MR. ELDER:** --- again we try to make sure
4 that was based on our observations ---

5 **MEMBER BARRIAULT:** Sure.

6 **MR. ELDER:** --- of the performance and what
7 we know, and not -- you know, we recognize that Cameco is
8 doing some improvements, but we try to go to the factual
9 observations we see during our compliance activities.

10 **MEMBER BARRIAULT:** All right, thank you.

11 To Cameco; you had three lost-time
12 accidents, not two. I think the last -- of those three,
13 are they all back at work now and is there any permanent
14 disability to any of them?

15 **MR. CLARK:** Dale Clark, for the record.

16 Yes, all three of those individuals are
17 back to work, had very minimal time away from work. So in
18 terms of lost time severity, days away from work, very
19 minimal; one to two days maximum.

20 **MEMBER BARRIAULT:** Okay.

21 **MR. CLARK:** So all are back, and no
22 residual health effects from any of those injuries.

23 **MEMBER BARRIAULT:** Thank you.

24 During our site visit last year, I noticed
25 at that time, in the HF plant, that your showers did not

1 have an alarm to the control room at the time. Has that
2 been -- is it still the some problem or is it still
3 existing that way? So if somebody triggers a shower,
4 there was nobody alerted to the fact that you had some
5 kind of exposure?

6 **MR. CLARK:** Dale Clark, for the record.

7 We have looked at that and I do recall the
8 discussion. We have certain areas of the plant that do
9 have safety showers that alarm, that give an indication of
10 alarm. Those are primarily in areas where people may be
11 working alone.

12 Not all safety showers in the plant are
13 like that, but I would point out that we do have a number
14 of means of communication. So those employees carry
15 radios with them at all times during those operations.
16 There is also a dedicated internal phone system with
17 multiple locations along the way in the paths to those
18 critical safety systems.

19 So you know, in our assessment of it, we
20 believe we have adequate communication means in the event
21 ---

22 **MEMBER BARRIAULT:** That's fine.

23 **MR. CLARK:** --- of an emergency like that.

24 **MEMBER BARRIAULT:** Thank you. That's all
25 for now, Mr. Chairman.

1 **THE CHAIRMAN:** Thank you. Monsieur Harvey?

2 **MEMBER HARVEY:** Merci, monsieur le
3 président.

4 On page 8 of Cameco's document, the third
5 paragraph,

6 "Actions arising from the 2011
7 inspection are currently being
8 addressed and Cameco expects to
9 complete all remaining open actions by
10 the end of 2011."

11 What's the status of the -- is it always
12 your goal in -- what's the progress?

13 **MR. CLARK:** Dale Clark, for the record.
14 Just to clarify, are you asking the CNSC
15 Type 2 inspection that was conducted ---

16 **MEMBER HARVEY:** Yes.

17 **MR. CLARK:** --- in 2011?

18 **MEMBER HARVEY:** Yes, yes.

19 **MR. CLARK:** And there was status of the
20 remaining actions.

21 I'll ask my colleague, Ms. Peters, to
22 respond.

23 **MEMBER HARVEY:** What was the nature of the
24 actions and what is the current status?

25 **MS. PETERS:** Rebecca Peters, for the

1 record.

2 The nature of the actions pertained to our
3 new corrective action process, or the CAP process, that
4 was referred to in our presentation and the corresponding
5 CIRS or Chemical Incident Reporting System. There was a
6 backlog in some of the actions and the events that were
7 progressing through that system, and that was the nature
8 of the findings in that inspection.

9 Cameco has responded to all of the
10 inspection findings from CNSC staff and are working
11 through their action plan to address that backlog.

12 **THE CHAIRMAN:** So 2011 is almost finished,
13 so you guys are going to meet this target date and we are
14 going to hear about this in Day Two?

15 **MS. PETERS:** Rebecca Peters, for the
16 record.

17 We have made significant progress on the
18 backlog of events. We have reduced the backlog by over 20
19 percent since the time of the inspection.

20 We are continuing to work through those
21 issues with the focus being on the significant events or
22 the events that have either higher significance or a
23 potential for a higher significance, making sure that
24 those are addressed first and in a timely manner to
25 eliminate any other significant problems.

1 Just for clarification, the majority of the
2 events -- I'd say in the high 90, 95 to 98 percent range
3 of the events that are put into the CIRS system are Level
4 One or Level Two, so very minor, low significant events
5 that I know were discussed in the Blind River discussion
6 this morning. So those would be ones that are in for
7 trending purposes or to identify that this is an area that
8 we may need to improve in the future.

9 **THE CHAIRMAN:** I don't think I heard a
10 "yes" and I'm just quoting your own sentences "expect to
11 complete all remaining open-action by end of 2011". It's
12 your text.

13 **MS. PETERS:** Rebecca Peters, for the
14 record.

15 Yes, the action plan will be complete by --
16 the actions that we committed to will be complete by the
17 end of this year.

18 **THE CHAIRMAN:** Thank you. Mr. Harvey?

19 **MEMBER HARVEY:** Do you have a comment on
20 that, Peter?

21 **MR. ELDER:** Peter Elder.

22 No, that's consistent with our
23 understanding. If you look at the paragraph in our CMD at
24 the top of page 20, it will give you a little more flavour
25 on what we're talking about as well as the backlog.

1 We are also looking at some minor issues
2 around the documentation and to make sure they are
3 maintaining their documentation associated with that
4 program.

5 **MEMBER HARVEY:** Okay, thank you.

6 Page 15 of the same document -- 15 of 50,
7 the last paragraph, the third line:

8 "The FHA has been completed by a
9 third-party expert and is reviewed at
10 a minimum of five years."

11 What does that mean, "minimum"? Should it
12 be maximum of five years?

13 **MS. PETERS:** Rebecca Peters, for the
14 record.

15 The entire FHA is reviewed at a minimum of
16 a five-year process. However, every time that a
17 modification is made on site to any of the plant
18 structures, it undergoes a third-party review for impact
19 for fire protection, and that information is incorporated
20 into the FHAs on an ongoing basis. So the FHA is a live
21 document that we maintain, but there is an overall review
22 on a five-year frequency.

23 **MEMBER HARVEY:** When you say a minimum of 5
24 years, that could be 6, 7, 10 years?

25 **MS. PETERS:** Rebecca Peters, for the

1 record.

2 There are -- we are continually submitting
3 third-party reviews to staff so that there would not be a
4 -- there would not be a gap such as that. All of our
5 capital projects are subject to the scrutiny of the third-
6 party review for fire protection.

7 **MEMBER HARVEY:** I was a little bit afraid
8 by "minimum of five years" because it kept it open to ---

9 **MR. CLARK:** Dale Clark, for the record.

10 Just to add to that. I believe the intent
11 of that wording is that we conduct those at least every
12 five years.

13 **MEMBER HARVEY:** Okay, so it's a maximum
14 then, not minimum?

15 **MR. CLARK:** Yeah, a minimum of a five-year
16 frequency, maximum five years, yes.

17 **MEMBER HARVEY:** It was like I thought.

18 Just checking not to ask the same question
19 that I asked previously. Okay, I'll come back.

20 **THE CHAIRMAN:** Dr. McDill?

21 **MEMBER McDILL:** Thank you.

22 On page 29 of Cameco's report, there's a
23 reference to the UF6 operator who was injured and the dose
24 would be assessed by -- I believe, if I remember
25 correctly, this fall. Is that proceeding?

1 **MR. CLARK:** Dale Clark, for the record.

2 We have submitted a status report and an
3 update on that and we continue to work with Health Canada
4 and some other experts on that to finalize the calculation
5 of that.

6 **MEMBER MCDILL:** So this is one of those
7 ones that's in Health Canada right now; staff?

8 No, it's a different one, okay, so it's
9 just going through the system?

10 **MR. ELDER:** This is going -- we'll get you
11 some detail for Day Two because this was actually the dose
12 assessment not a reading of instrumentation. One of these
13 things where you probably had to recreate the event to
14 model it.

15 **MEMBER MCDILL:** So we'll see something on
16 that on Day Two?

17 **MR. ELDER:** Yeah.

18 **MEMBER MCDILL:** Also in Cameco's document,
19 you refer to the SAP database. This is the SAP, not your
20 version of it? It's the international standard SAP
21 program?

22 **MR. CLARK:** That's correct, yes.

23 **MEMBER MCDILL:** Okay. And is it company-
24 wide or just with the three facilities we're looking at
25 today?

1 **MR. CLARK:** SAP is used company-wide, yes.

2 **MEMBER McDILL:** Thank you.

3 For I guess both Cameco and staff, there's
4 a reference in staff's document on page 51 about the
5 inspection of the drums.

6 Will there be an update on that in Day Two?
7 It was a May 2011 inspection concerning looking at drums.
8 Cameco got an answer coming now?

9 **MR. CLARK:** Could you clarify the page
10 number you were referring to there?

11 **MEMBER McDILL:** It's page 51 in staff's
12 document:

13 "Although waste inventories are being
14 maintained due to the storage
15 arrangement of drums inside the
16 warehouse, it's not possible to easily
17 verify inventory or inspect the
18 integrity of the containers."

19 Staff is waving.

20 **MR. RAVISHANKAR:** Ravishankar for the
21 record.

22 CNSC staff can confirm that Cameco
23 submitted a corrective action plan on August 4th, and this
24 is currently under review.

25 It includes conducting internal visual

1 inspections, inventory lists, segregation, et cetera. And
2 Cameco has also committed to -- because this is an ongoing
3 thing -- they have committed to give an update to us by
4 the end of this year.

5 **MEMBER McDILL:** So we should have something
6 in Day Two then?

7 **MR. RAVISHANKAR:** We will have a further
8 update on this.

9 **MEMBER McDILL:** On page 44 of staff's
10 document, there's a comment on soil concentrations in the
11 waterworks parking lot. There's a tantalising statement
12 "Soil concentrations do not appear to increase in the top
13 soil horizon." It's kind of weasely worded.

14 **MR. RAVISHANKAR:** I'll ask Mr. Mike Rinker
15 to address this.

16 **MR. RINKER:** Mike Rinker, for the record.

17 We have about five years of data on soil --
18 measuring very small or incremental loadings of uranium to
19 the soil may take a long -- longer period of time, so
20 we're still looking at it. But, certainly, in the first
21 five or six years of data, there is no increase, no
22 observable increase.

23 **MEMBER McDILL:** For Day Two, since the
24 public and the community will be present, is that
25 something that could be expanded upon a little bit for Day

1 Two?

2 **MR. ELDER:** Peter Elder. Just to clarify
3 what you would want on this one.

4 I guess -- because we did provide the
5 actual data on it, it's Table 9 on page 45. So you want
6 some -- just to clarify what we're going to commit to do,
7 is just more information?

8 **MEMBER McDILL:** I think I can read a table.

9 **MR. ELDER:** Yeah -- no, I understand.
10 Interpretation of the table ---

11 **MEMBER McDILL:** For the public.

12 **MR. ELDER:** --- and why we say ---

13 **MEMBER McDILL:** I don't know whether a bar
14 chart, a graphic with green and red and yellow showing the
15 soil strata; something like that. That would be easier I
16 think.

17 **MR. ELDER:** But just to clarify, it's the
18 same to explain ---

19 **MEMBER McDILL:** Yes.

20 **MR. ELDER:** --- why we don't think this is
21 a concern at this time.

22 **MEMBER McDILL:** Exactly, yes.

23 **MR. ELDER:** Thank you, yes.

24 **MEMBER McDILL:** Because as you recall from
25 some of the previous ones, there's been quite a bit of

1 interest in that particular site. I'm not sure if Cameco
2 has a different way of presenting it. Maybe they even
3 have it on their website. I don't know, if they do, then
4 ---

5 **MS. PETERS:** Rebecca Peters for the record.
6 We've actually done some additional follow-up work looking
7 at our air emissions in the soil deposition. And we've
8 had a third party prepare that report and we will be
9 providing that to staff shortly so they will have
10 additional information for day two.

11 **MEMBER McDILL:** Thank you. I think ---

12 **THE CHAIRMAN:** Since we are on the same
13 page the section before the site-wide environmental
14 management plan. As you know there's lots of history
15 behind that kind of issue. And there's another
16 interesting little -- you put in some new wells and
17 they're successfully installed and are scheduled to
18 commence operation in fall 2011.

19 You know it will be really useful, we were
20 talking about the plume, existing plume, is there a plume,
21 where's it going? Is it going into the lake, et cetera?
22 Maybe a nice update as to where it is and what's the
23 current measurement on that? That's a longstanding angst
24 in the community, and been discussed in this forum now for
25 a long, long time. So maybe an update on that.

1 Staff, anything you want to say about it
2 now, or do you want to wait for day two.

3 **MR. RAVISHANKAR:** Ravishankar for the
4 record.

5 I just want to agree we will get something
6 ready for day two in a more pictorial way and be able to
7 explain that to the general public.

8 I just want to say that the current levels
9 of contamination that is there, according to the site-wide
10 human health and ecological risk assessment conclusions we
11 have found that there is no adverse effect on the
12 environment or people at the current levels. So this is
13 just something that I wanted to put on the record.

14 **THE CHAIRMAN:** Yeah. But I think the
15 people in Port Hope now are a little bit more
16 sophisticated than that. So I would like to see the
17 migration of the plume, so-to-speak, if there are any. So
18 ---

19 **MR. RAVISHANKAR:** Yes, we will have that
20 information in further details.

21 **THE CHAIRMAN:** Okay, thank you. Dr.
22 McDill.

23 **MEMBER McDILL:** Thanks, Mr. Chair, that's
24 all. I would like to thank both Cameco and staff. The
25 graphs are nice and clear and the pictures are nice and

1 clear. It's been very nice to read.

2 **THE CHAIRMAN:** You just got a compliment.

3 I think you should say thank you. That's a very --

4 **MR. CLARK:** Thank you very much.

5 **THE CHAIRMAN:** -- rare event. Mr.

6 Tolgyesi.

7 **MEMBER TOLGYESI:** Merci, Monsieur

8 President.

9 Just go back a little bit to these
10 frequencies. My understanding is that medical treatment
11 frequency includes also lost time injury frequency; or it
12 is not?

13 **MR. CLARK:** We typically look at lost time
14 injuries separately from medical treatment injuries.

15 **MEMBER TOLGYESI:** Yeah. But lost time,
16 when it is a lost time injury it's a medical also, whereas
17 a medical should not necessarily be lost time. So that's
18 why I'm saying that probably I'm questioning, it's
19 included or it should be added?

20 **MR. CLARK:** Dale Clark for the record. So
21 we have a number of different ways of tracking and
22 reporting that. So I'm not sure which metric exactly
23 you're referring to, but we do track and look at the lost
24 time injury frequency, the medical treatment injury
25 frequency separately, and then we also have a metric that

1 combines any recordable injury as you mention, a medical
2 treatment or a lost time injury. Both considered as
3 recordable injuries, and the frequency rate of those as
4 well.

5 **MEMBER TOLGYESI:** Does these numbers
6 include contractors? Do you have any contractors on the
7 site?

8 **MR. CLARK:** Yes. Dale Clark for the
9 record.

10 We do and contractors are included on that.
11 So all employees and contractors that are working on site
12 are included in those statistics.

13 **MEMBER TOLGYESI:** Okay. And the next page
14 we were talking a little bit about audits. It's done by
15 Cameco or is it kind of third party audit, or if it's
16 within Cameco is there some participation of labour
17 representatives and an audit committee?

18 **MR. CLARK:** Dale Clark for the record.

19 We do, as part of our quality assurance and
20 different programs we do conduct regular auditing of all
21 of those programs on a regular frequency. Some of those
22 are conducted internally and by in-house Cameco subject
23 matter experts. In other cases we bring in third party
24 experts and we use consultants and contractors to conduct
25 those audits for us as well.

1 In terms of labour representation we do
2 that as often as we can, and as where it's applicable. So
3 that doesn't necessarily include every audit or inspection
4 that's conducted, other than people that are directly
5 involved in that area or topic.

6 **MEMBER TOLGYESI:** You were saying that you
7 were putting in place this health and safety -- joint
8 health and safety committee with labour representatives.
9 Does it mean that they will be involved also in these
10 audits, or you are not there yet?

11 **MR. CLARK:** Yeah. Dale Clark for the
12 record.

13 I would be confident in saying we have very
14 good cooperation in terms of our common goal of a safe
15 work environment and protecting the safety of our workers
16 and the public. We have very good cooperation and we have
17 active involvement.

18 So in audits that are conducted in that
19 area there is consistent representation. And not only
20 through those audits, but of course we also have an active
21 Workplace Health Safety Committee with representation from
22 the labour union and staff representatives as well.

23 **MEMBER TOLGYESI:** You were saying that
24 there is some increase number of injuries of hands. The
25 frequency increase over past years. And you, I think you

1 had some serious accident now; laceration of fingers,
2 which is hands also.

3 So what kind of specific action plan did
4 you put in place to prevent, because this was in
5 2009/2010, and this laceration happened recently. So what
6 was the implemented action plan and how it works?

7 **MR. CLARK:** Yes, Dale Clark for the record.

8 We have, you know, through the trending and
9 the analysis that we've done in over recent years and
10 especially with use of our Cameco incident reporting
11 system tool, we have identified, you know, those trends
12 and hand injuries is and has been one of our more
13 significant challenges with respect to conventional health
14 and safety.

15 And we recognize that we're not alone in
16 that, that's a common challenge in the manufacturing
17 environment as with others. We have conducted certainly
18 for any of the individual events that we've had, we
19 conducted an investigation and corrective actions from
20 those.

21 In terms of recognizing the trend we have
22 raised awareness across the site. In particular in 2011
23 around that trend of hand injuries that's become a
24 dedicated focus of safety meetings across the site in
25 2011.

1 We've also conducted PPE assessments, or
2 personal protective equipment assessments of all that
3 we've identified as high risk activities in the operating
4 plants, and make sure that we're, you know, we're giving a
5 more thorough assessment to the right type of gloves that
6 are used for those tasks and have made a number of
7 changes.

8 And the recent example that you mentioned
9 that occurred this year as a lost time accident with
10 respect to a hand injury is another example where we've
11 assessed and we've changed and improved the type of glove
12 that is used for that task.

13 **MEMBER TOLGYESI:** On page 46 of your
14 submission you are saying that the majority of residents,
15 65 percent, do not have any specific concerns, which means
16 there's one-third at least they have some. What kind of
17 concerns we are talking about?

18 **MR. THORNE:** Andy Thorne for the record.

19 It's actually the same issue that we have
20 at Blind River. So if I could ask that -- we had some
21 discussion during the break, if I could ask that we could
22 come back to you at day two with some further
23 clarification on that area, if that's okay?

24 **MEMBER TOLGYESI:** Are all facility
25 employees resident of Port Hope, or are they coming from

1 surrounding communities also?

2 **MR. CLARK:** Dale Clark for the record.

3 We do have employees from surrounding areas
4 and communities as well. We certainly, you know, we have
5 a large percentage of employees that live and work in Port
6 Hope, but certainly not all, not a hundred percent.

7 **MEMBER TOLGYESI:** Because on page 47, you
8 are talking about forums; meetings with Port Hope
9 Municipality and there are forums and my question was, are
10 these forums and communications limited to Port Hope or
11 they are designated also to reach surrounding areas,
12 surrounding other municipalities?

13 **MR. THORNE:** Andy Thorne, for the record.

14 The forums that we hold are community
15 forums and -- but they're open to anybody to attend
16 actually. The invitations for those are typically posted
17 in local newspapers primarily in Port Hope, but we have a
18 -- Port Hope sits in Northumberland County which is a much
19 larger area that includes Cobourg and some of the
20 surrounding areas to Port Hope. The invitations to those
21 community forums are actually provided in that broader
22 newspaper that goes out further than the Port Hope region.

23 **MEMBER TOLGYESI:** And do you have a
24 knowledge if those municipalities are coming --
25 participating or not necessarily?

1 **MR. THORNE:** We do -- we do try and keep
2 track of the people that do attend those forums. I would
3 say primarily, the interest is within Port Hope. We do --
4 we do have a smaller percentage of people that do come
5 from outside the specific Port Hope area. But primarily,
6 they're Port Hope residents because the facilities are in
7 Port Hope and the community of Port Hope are interested in
8 our operations.

9 **MEMBER TOLGYESI:** Because what you're
10 saying that community forum newsletters is published and
11 mailed to each mailing address in the Municipality of Port
12 Hope. That's why I'm asking. What's your outreach to
13 other communities?

14 **MR. THORNE:** That's correct. With the
15 mailing shot that we do following a community forum does
16 focus on Port Hope residents. What I will say is we have
17 a very comprehensive Fuel Services Divisional website now
18 that we're actively using to present information to
19 specific local community and others that are interested in
20 our operations.

21 The presentations that we provide at those
22 community forums typically are posted on our website
23 following those events so that they're available for
24 anybody, actually, anywhere in the world to view if they
25 choose.

1 therefore, recycling of these products
2 is expected to begin in 2012."

3 There's a kind of discrepancy between these
4 two statements.

5 **MR. CLARK:** Yes, Dale Clark, for the
6 record.

7 We do -- we have a by-product that's
8 generated from the UF6 process. Currently and for many
9 years, that by-product has been recycled through a
10 facility in the United States and that is an available
11 outlet that we have and we plan to continue to utilize.
12 The following from that is that we are looking at
13 opportunities to recycle that product to the Key Lake
14 facility in Saskatchewan and that's the -- that's the
15 reference in the following page.

16 **MEMBER TOLGYESI:** My last is that means you
17 should store sometimes these products on the site, okay?
18 Do we have some licensing limits to what extent and what
19 type of waste you could store?

20 **MR. CLARK:** Dale Clark, for the record.

21 We do -- so we do have outlets established
22 for that recycled product and we utilize those outlets
23 regularly. So there is no significant or bulk storage of
24 that material from our current process and there are no
25 limits, specifically, on that storage of the by-product

1 material.

2 **THE CHAIRMAN:** Thank you.

3 Monsieur Harvey.

4 **MEMBER HARVEY:** Monsieur le presidente.

5 Page 18 of your document -- Cameco's
6 document, under 351 relevance and management, we're
7 talking about changes to the physical design of equipment,
8 processes and facility with the potential to impact safety
9 evaluated from project planning through completion. And
10 the last sentence aside:

11 "Design control procedure is in place
12 to ensure any equipment changes or
13 modifications will not have an adverse
14 effect on the environment..."

15 Et cetera. Well, I think there is an
16 obligation anyway to report to the staff if you're
17 changing something. I tried to link that with the --
18 maybe the end book, page 20, where can read:

19 "Changes that are outside the licence
20 conditions are not permitted without
21 the prior written approval of the
22 CNSC."

23 How does it work? I think it's okay, like
24 I read it here. You've got the committee and you will
25 look at, but you've got at a certain moment to come back

1 to the staff, I suppose. That's on page 18.

2 **MR. CLARK:** So Dale Clark.

3 I'll ask my colleague, Ms. Peters, to
4 elaborate on that change control and when that triggers
5 notification with the CNSC.

6 **MS. PETERS:** Rebecca Peters, for the
7 record.

8 The change control procedure is used to
9 assess all changes that occur within the facility. Within
10 that, there is a mini risk assessment to determine the
11 significance of that change and higher significant changes
12 would then have to go through our internal change control
13 committee and gain their approval.

14 Those changes can be reviewed by CNSC staff
15 when they are onsite. Changes of larger significance such
16 as the relocation of our depleted uranium dissolution
17 circuit which we talk about in our CMD; those types of
18 changes would be the ones that we would go to staff for
19 their further input prior to implementing those changes.

20 **MEMBER TOLGYESI:** But who decides to go to
21 the staff? I mean,

22 are you talking with the staff on a regular
23 basis when you're doing that or you decide by yourself
24 that you don't have to go to the staff?

25 **MS. PETERS:** Rebecca Peters, for the

1 record.

2 There is criteria for the significance of a
3 change or a system within our process. There is also a
4 list of systems that we term to be "safety significant"
5 and as the single point of contact with staff, I'm in
6 routine dialogue with staff about that.

7 I'm also a member of that change control
8 committee, so there is that link between myself and staff,
9 and we are talking about these ongoing changes through our
10 routine correspondence.

11 **MEMBER HARVEY:** Can you comment on that?

12 **MR. ELDER:** Peter Elder, for record.

13 I mean, what we're going through is how a
14 change control process should work. What we require the
15 licensee to have is a formal process that is documented so
16 that we can go in and audit it. So we don't -- rather
17 than them asking on a daily basis do you need to see it or
18 not? We said, you have a process, you follow it, we'll
19 audit it, and if you make a change that should have been
20 approved that wasn't you're in non-compliance with the
21 licence and we'll deal with the non-compliance. You know,
22 it's their responsibility to have a process to identify
23 those things that have a different nature than is in their
24 documented safety case.

25 So we expect them for each design change --

1 there to be a comparison; that comparison to the safety
2 case to be documented so that we can review it, and if it
3 is determined to be a significant change they need to have
4 our approval.

5 **MEMBER HARVEY:** Thank you. You have a
6 question related to that or -- no, okay. Got it all.

7 Page 35 of staff CMDs, Application of
8 ALARA. There is quite a few paragraphs there talking
9 about ALARA and my question is -- make it as short as
10 possible -- is it possible to express one way or another
11 the results of an ALARA application?

12 Because we are quite often talking of ALARA
13 here and there and it's something vague and, okay, we're
14 working on that. But is that possible -- is it possible
15 to identify very specific things that came from ALARA?

16 I'm asking the question to the staff or to
17 ---

18 **MR. JAFERI:** Jafir Jaferi, for the record.
19 I'll give one example and then I'll ask
20 staff to fill in, in case something is additional there.

21 One example ---

22 **MEMBER HARVEY:** I'm just underlining the
23 last sentence of those paragraphs:
24 "The CNSC staff is satisfied with the licensee's efforts
25 in keeping the dose of the worker and the public as

1 ALARA."

2 **MR. JAFERI:** We have asked licensees to
3 give us some criteria in terms of keeping the doses to
4 workers minimum as ALARA, and they set objective every
5 year. If they don't meet that objective that means they
6 are not ALARA.

7 So in the case of Port Hope Conversion
8 Facility, they have set objective, for example 10
9 milliSieverts per year, and they have met that.

10 **MEMBER HARVEY:** Okay, you want ---

11 **MR. ELDER:** I think I'll ask to see if
12 Caroline Purvis wants to add some other concrete examples
13 of what -- looking at ---

14 **MS. PURVIS:** Caroline Purvis, for the
15 record.

16 It's a good question. ALARA is essentially
17 looking at all parts of your radiation protection program
18 that may impact workers and trying to incorporate
19 improvements. Not only just those that will decrease
20 dose, but perhaps contamination levels within your
21 facility; designing and engineering controls to reduce
22 dose so that you don't have to use administrative
23 controls.

24 So certainly, yes, we do report dose and
25 dose is one parameter on which we will look for continual

1 improvement until such time as you are ALARA. But there
2 are other parameters that we would look at, and
3 holistically we want to see that the licensee is striving
4 for continuous improvement.

5 **MEMBER HARVEY:** Thank you.

6 Page 40 in the staff CMD. Staff conducted
7 a Type 1 EMS inspection in 2010:

8 "Although CNSC staff noted the inspection as satisfactory
9 there were a few weaknesses found in the program. These
10 were related to environment planning, implementation,
11 monitoring, and measuring. However, these weaknesses were
12 minor in nature and Cameco is in the progress of
13 addressing these issues."

14 Could you give us some examples of "minor
15 in nature"? What could that be because if you mention it
16 here it has a certain importance, but what importance?

17 **MR. ELDER:** Just bear with us a second,
18 we're trying to find the actual --- on this one. What
19 we're -- so I think I'll ask Mr. Avijit Ray to answer.

20 So I think Cameco may want to respond first
21 though.

22 **MS. PETERS:** Rebecca Peters, for the
23 record.

24 Most of the findings were with respect to
25 some minor improvements that could be made to the

1 documents, the procedures and the plan, and how we
2 actually use those procedures and plans in actually
3 implementing that environmental management program. So
4 some -- just tightening up the wording in how we link to
5 the requirements of the ISO 14001 standard.

6 However, as we indicated earlier, we were
7 just recently re-registered to the ISO 14001 standard and
8 these opportunities that staff pointed out are truly
9 opportunities for us to further improve our already robust
10 system.

11 **MEMBER HARVEY:** So most of the time it is
12 related to documents, more related to documents than to
13 physical equipment, something like that?

14 **MR. RINKER:** Mike Rinker, for the record.

15 That's correct. They're so minor in nature
16 it took us a few minutes to remember what they were.

17 But they were related to document control
18 and not to problems with releases or monitoring and so on.

19 **THE CHAIRMAN:** It would be useful if you
20 could characterize them as such, as document in nature,
21 and even more interesting is if you actually put a
22 completed date. When you leave those things in the
23 process of addressing them we have no idea what completion
24 date will look like. It could be many, many years from
25 now. So ---

1 **MEMBER HARVEY:** That's why they've got such
2 a question.

3 **THE CHAIRMAN:** Right.

4 **MEMBER HARVEY:** Last one.

5 On page 45 on the groundwater and surface
6 water monitoring, "Should the pumping continue...", and
7 we've got that on the table there showing the what has
8 been removed and -- but do you -- maybe it has been done
9 and I don't recall.

10 Have you got an idea of the quantity of the
11 elements that are in the -- because we -- you say this is
12 what we took out from the ground, but you have an idea of
13 the volumes or the amount of each element in the --
14 because you say it's going down so maybe there is less
15 contamination but, maybe not, we don't know.

16 Maybe it just -- it stays there and because
17 -- and the pumping does not do what it should do. We had
18 already experimented such thing in Quebec years ago. So
19 could you just comment on that?

20 **MS. PETERS:** Sure, Rebecca Peters, for the
21 record.

22 The intent of the pump and treat system is
23 two-fold. It's, first, to reduce the flux of contaminant
24 loadings in the groundwater to the Port Hope Harbour, and
25 the second is to maintain a zone of capture of that

1 contamination that's locked up in the soil beneath the UF6
2 plant, primarily, and as well some further down beneath
3 the UO2 plant.

4 The pump and treat system as we put into
5 place is working as intended and it is maintaining that
6 zone of capture around those buildings. It's also
7 significantly reducing the flux of contamination to the
8 harbour on an annual basis.

9 Now, we monitor the effectiveness of that
10 system through our groundwater monitoring program, which
11 staff have described in their CMD, and we compile that
12 information -- actually, we have a third party compile
13 that information and provide an annual report to us which
14 we then submit to not only CNSC staff but the Ministry of
15 Environment as well. So they are reviewing that data on
16 an annual basis. And the indication is that the pump and
17 treat system has stabilized and is maintaining the
18 objectives that it was set out to address.

19 **MEMBER HARVEY:** Without knowing exactly
20 what the quantity of the amount of contaminant there. So
21 you don't have an idea of when will stop that pumping, it
22 could last for years? You don't know ---

23 **MS. PETERS:** Rebecca Peters, for the
24 record.

25 The intent of that pump and treat system is

1 to continue to pump for the foreseeable future. There is
2 no intention to eliminate that pump and treat system at
3 this point in time.

4 We will continue to collect the data and
5 analyze it on an annual basis, and as additional data
6 comes in, at some point, in the far foreseeable future, we
7 might make some modifications but we will do that in
8 consultation with both CNSC and MOE staff.

9 **THE CHAIRMAN:** Go ahead somebody.

10 **MR. RINKER:** Mike Rinker, for the record.

11 Just to follow up, we do have a sense for
12 how much contamination they're removing. And if I could
13 give an example, in 2010 approximately 14 kilograms of
14 uranium was captured in the dewatering system. And so it
15 is being monitored.

16 And there are a number of sources of
17 contamination to the groundwater. There are two buildings
18 that showed some leakage in the subfloor. Those buildings
19 have been remediated. But we would expect pump and treat
20 to continue until, you know, such a time as those
21 buildings would be eventually decommissioned -- facility
22 decommissioning.

23 **MEMBER HARVEY:** My point is, I know that --
24 you know what you are -- what is pumped from there and the
25 quantity. I agree there is a figure on that. But my

1 question was just what percentage are you taking out of
2 there each year? So it could be .01, one or 10 percent.
3 But that was the essence of my question.

4 **MR. RINKER:** Mike Rinker, for the record.

5 I guess if we look --

6 **MEMBER HARVEY:** These are sources reducing.

7 **MR. RINKER:** I guess if we looked at --
8 there are two ways to remediate this that Cameco has
9 pursued; one is to remove the source, removing the soils
10 that are contaminated. And if we used Building 24 -- we
11 have a sense that they've removed almost 95 percent of the
12 contamination by removing the soils, but the percent of
13 uranium that is in groundwater is a bit harder to quantify
14 because we're dealing -- you know, it's a much smaller
15 percentage that is actually in the groundwater.

16 And the criteria that we would be looking
17 at in terms of when is it good enough or safe enough, I
18 think is a little bit too precise to say that we're
19 getting five percent every year, or an example like that.
20 We just want to monitor it and expect them to keep
21 removing it until such a time that there isn't an unsafe
22 release.

23 **MEMBER HARVEY:** Merci.

24 **MEMBER BARRIAULT:** Thank you, Mr. Chairman.

25 That same table, Table 10, I had problems

1 with that, and the problem I had was maybe it's based on
2 assumptions but you are assuming that you are pumping this
3 identical volume from year to year. I would have found
4 the table much more meaningful to me if I would have a
5 litres per hour or gallons per hour of what's being
6 pumped. If you're pumping less, obviously, you'll have
7 less coming up; if you pump more, you'll have more coming
8 up.

9 I don't know, maybe it's been done, and
10 maybe the volume is constant but I find that hard to
11 believe that the volume is constant from all these pumps
12 at all times.

13 **MS. PETERS:** Rebecca Peters, for the
14 record.

15 The information provided in Table 10 is
16 taken out of the annual reports that I referred to. In
17 those annual reports it uses the actual pumping rates and
18 the concentrations that are measured at those wells
19 through our monitoring program to determine what the total
20 removal of contaminants is. So that information is
21 factored into this information.

22 **MEMBER BARRIAULT:** So the assumption is
23 that the volume is constant?

24 **MS. PETERS:** No. The actual loadings that
25 are calculated are based on the actual pumping rates which

1 we monitor. That's part of the requirement from the
2 Ministry of the Environment is that were monitoring those
3 pumping rates real time.

4 So that information -- the days that
5 there's a higher pumping rate at that well and a lower
6 pumping rate, that's all factored into those calculations.

7 **MEMBER BARRIAULT:** Okay, but it's not in
8 this explanation?

9 **MS. PETERS:** No, it's not provided in the
10 table but it's provided in the calculation that came to
11 these numbers.

12 **MEMBER BARRIAULT:** Thank you.

13 Thank you, Mr. Chairman.

14 **THE CHAIRMAN:** Anybody else?

15 Okay, just to follow up on this again for
16 Day Two, because there is so much interest in the loading
17 and the remaining, you know, historical contamination,
18 plume, and all that stuff it would be nice if we can
19 actually put the date in a way that people can understand
20 and relate to it.

21 I've got a couple of questions here. I'm
22 not familiar -- I don't know too much about the ISO 14001.
23 You seem to spend a lot of effort in trying to re-
24 register. Is it required to re-register every, what,
25 every five years?

1 **MS. PETERS:** Rebecca Peters, for the
2 record.

3 It's every three years. So we have
4 surveillance audits with the registrar every year in
5 between that. So we are audited by them annually and the
6 re-registration is every three years.

7 **THE CHAIRMAN:** So what do they do which is
8 different than what MOE and us do?

9 **MS. PETERS:** Rebecca Peters, for the
10 record.

11 They are looking at the actual ISO 14001
12 standard, there is a standard, and they're auditing our
13 environmental management system against that standard. So
14 it's an audit of the system.

15 MOE and CNSC staff evaluate not only our
16 system -- our monitoring programs and our systems, but
17 they also look at our actual environmental performance as
18 well. So that would be our emissions.

19 **THE CHAIRMAN:** So my assumption, if you get
20 a good report why wouldn't that be something you'd be
21 readily willing to publish and show everybody?

22 I'm just trying to figure out why, and
23 maybe CNSC can help me about what do you know about what's
24 going on in this kind of an audit?

25 So first to Cameco.

1 **MS. PETERS:** Rebecca Peters, for the
2 record.

3 **THE CHAIRMAN:** Is it confidential material
4 in this report?

5 **MS. PETERS:** Rebecca Peters, for the
6 record.

7 Some of the information that the ISO
8 registrar reviews is information that we would consider
9 sensitive either from a business perspective or from a
10 security perspective. So we don't -- they are not
11 authorized to release the findings of their audits
12 publicly. They either re-register an applicant or they do
13 not re-register an applicant.

14 If I could go back to the discussion held
15 with Blind River this morning about the aspects registry,
16 which is a part of the requirements of ISO. The aspects
17 registry is, essentially, it's an additional risk
18 assessment. It identifies some of the risks that are on
19 site. Information in that aspects registry Cameco would
20 also consider sensitive either from a business perspective
21 or a security perspective or both. So that type of
22 document we would not release openly to the public.

23 However, the safety report that Cameco is
24 required to have does assess the impact of the facility on
25 the environment. And we have provided to staff and can

1 provide to the public a public version that we would be
2 willing to release to the public of that safety report
3 which would involve some of that information.

4 **THE CHAIRMAN:** Well that's my question.
5 Why wouldn't you do that?

6 And staff, is it a useful kind of yet
7 another third party review of the system and procedures of
8 the organization?

9 **MR. RINKER:** Maybe to answer that question
10 -- Mike Rinker for the record.

11 The CNSC's S-296 has a requirement for
12 environmental management program and ISO 14001 could be
13 used to satisfy that. It's not necessary.

14 But we do have a requirement to have
15 policy's procedures document control and a management
16 structure that is put in place to respond to events if
17 monitoring programs identify a risk. That's kind of in a
18 nutshell, what that program would require.

19 We have that information as noted in some
20 of those minor deficiencies that we identified. Those are
21 about documents control.

22 So we present the information to the
23 Commission and to the public that would also be in there.
24 But we also presented more in terms of what are the
25 releases and what are the risks to people I think is a

1 little more user friendly way to provide the information.

2 **THE CHAIRMAN:** Let me move on. I know that
3 the licence allows for small quantities of enriched
4 uranium. Do you have enriched uranium now on site, and
5 what -- and if yes, what are you using it for?

6 **MR. CLARK:** Dale Clark, for the record.
7 We do currently handle and store some
8 enriched uranium compounds that's used for some research
9 and development purposes in small quantities that we use
10 for research purposes. And then also for storage of
11 historically contaminated materials that contain some in
12 small quantities that we use for research purposes and
13 then also for storage of historically contaminated
14 materials that contain some enriched uranium, material
15 that is stored in a -- located in a secured building. So
16 we do that handling for -- small quantities for research
17 and development purposes and then also to cover the
18 storage of some of the historic materials.

19 **THE CHAIRMAN:** What kind of R&D are you
20 engaged in?

21 **MR. CLARK:** Dale Clark, for the record.
22 So our research facility for Cameco is
23 located in Port Hope at the Conversion Facility. They do
24 research for all of Cameco and for all the Cameco
25 facilities that happen to be located here on site.

1 I don't believe that there are current
2 research efforts underway, but there have been, you know,
3 over the course of time and there may be, in the future,
4 other opportunities that the research development works
5 on.

6 **THE CHAIRMAN:** I guess my simple question
7 is if you really don't have a high use for it, why don't
8 you get rid of it? I mean, why would you want to --
9 because I guess with enriched uranium goes some further
10 obligations. So ---

11 **MR. CLARK:** Yes, Dale Clark, for the
12 record.

13 It's -- the material -- the quantities used
14 for research and development are very small quantities
15 that are potentially around, and our intent and objective
16 is to keep that material to an absolute minimum, and we
17 continue to work on and investigate ways to safely manage
18 and remove that material from site. So the vast majority
19 of that is the storage -- the safe storage of historic
20 materials.

21 **THE CHAIRMAN:** So you don't mind the
22 additional scrutiny from the IAEA and other such friendly
23 auditors?

24 **MR. CLARK:** Dale Clark for the record.
25 We work very cooperatively with the IAEA

1 and all the other regulators. They are aware of that
2 material in inventory and certainly, you know, we will
3 continue to work on finding avenues to remove that
4 material as much as -- and as quickly as possible.

5 **THE CHAIRMAN:** How many visits from the
6 IAEA a year do you normally get?

7 **MR. CLARK:** Dale Clark, for the record.

8 I don't have the exact number, but I would
9 be comfortable in saying it's very similar to what we
10 heard from Blind River facility this morning.

11 **THE CHAIRMAN:** Staff?

12 **MR. RAVISHANKAR:** During the licence
13 period, there were 11 inspections by IAEA over five years.

14 **THE CHAIRMAN:** So it's again, roughly two
15 per year. I'm just trying to tally all the activities of
16 the IAEA here in Canada around facilities.

17 We mentioned a few times here the Ministry
18 of Environment, and you mentioned the certificate of
19 approval, and I'm trying to -- what's your assessment of
20 ability to meet their, I guess, the new requirements for
21 uranium in air, some of the effluent control, et cetera?

22 **MR. CLARK:** Dale Clark, for the record.

23 We are aware of the new guideline and
24 standard on uranium in air from the Ministry of the
25 Environment that comes into effect in 2016. We also

1 understand that there is some further guidelines that are
2 being developed in terms of how to conduct the modeling
3 and the assessment for that new standard. Although, based
4 on our preliminary assessment, we are confident that we do
5 and will meet that new requirement for uranium in air.

6 **THE CHAIRMAN:** Staff, you want to comment
7 on this?

8 **MR. RAVISHANKAR:** Ravishankar, for the
9 record.

10 Based on our review of the data, we know
11 that their current operations will meet the new standard
12 by Ontario Ministry of Environment.

13 **THE CHAIRMAN:** It was mentioned that a
14 certificate of approval is due from them. Will we hear
15 about this for Day Two? Presumably, we will invite MOE to
16 attend and maybe they can comment on this.

17 **MS. PETERS:** Rebecca Peters, for the
18 record.

19 We have had correspondence with the
20 Ministry of the Environment on that C of A application.
21 As my colleague, Mr. Clark, indicated, the MOE is
22 currently developing their guidance for how to assess
23 compliance with the new uranium in air standard, and we
24 believe that that is their -- once that assessment and
25 that guidance document is available, they will continue to

1 process our application for the renewal of our C of A.

2 We have received correspondence from the
3 Ministry indicating that we are to proceed and to continue
4 operating under our existing C of A until the new one is
5 issued.

6 **THE CHAIRMAN:** Staff, we are not going to
7 be surprised with a new one, right? I guess, you are not
8 anticipating being surprised, let me put it that way?

9 **MS. PETERS:** Rebecca Peters, for the
10 record.

11 The C of A application, it's basically a
12 renewal of the existing conditions in the existing C of A
13 for discharges to air that we have from the Ministry. So
14 we are not expecting any changes as a result of that
15 process.

16 **THE CHAIRMAN:** Okay. Last two questions
17 here. I thought I heard that you requested an amendment
18 to the licence to deal with an increasing discharge
19 capability. Is that really a new request now or maybe I
20 may have missed it in the documentation here?

21 **MR. ELDER:** Peter Elder. Maybe I'll start
22 because I'll explain where we got to, in terms of our
23 draft licence.

24 Cameco had mentioned that they are no
25 longer having effluent releases, liquid effluent releases;

1 little more information on what sort of technology they
2 would be looking to treat this liquid effluent before we
3 put in a licensed condition on it.

4 **THE CHAIRMAN:** So we will expect, I guess,
5 a supplementary submission of some sort?

6 **MR. ELDER:** We -- I think if they make a
7 supplemental submission in terms of what they were
8 proposing that we could review -- currently, there is no
9 releases and we would need to see more information on what
10 sort of -- especially, what sort of treatment technology
11 they would be using if they were going to restart
12 releases.

13 **THE CHAIRMAN:** But are you to consider all
14 of this for Day Two? Is that what I'm hearing or is it
15 beyond?

16 **MR. ELDER:** If Cameco can give us the
17 information in time, we can consider it for Day Two.

18 **THE CHAIRMAN:** Cameco?

19 **MR. THORNE:** Andy Thorne, for the record.
20 We intend to provide that information
21 before Day Two.

22 **THE CHAIRMAN:** Okay, that's -- remember,
23 this is a public process, and you've got to give some due
24 time for everybody to be able to read it and assess it.

25 Okay, my -- you want to ---

1 **MEMBER TOLGYESI:** (Off microphone).

2 **THE CHAIRMAN:** Okay, go ahead.

3 **MEMBER TOLGYESI:** Merci, monsieur le
4 président.

5 On page 40 and 41 of the Staff document,
6 when you are looking at:

7 "The UO2 plant uranium daily stack
8 emissions were consistently higher
9 from 2009, 2010, and 2011 than to
10 previous years."

11 Okay. Now, on the next page, what you are
12 saying that -- on the just before-last paragraph that,

13 "The third party sampling was
14 consistently higher than what
15 Cameco was measuring."

16 And did you find what is the reasons for
17 this consistently higher or lower measurement?

18 **MR. CLARK:** Yeah. Dale Clark for the
19 record. I'll let my colleague Ms. Peters respond to that
20 in more detail.

21 **MS. PETERS:** Rebecca Peters for the record.

22 As staff's CMD indicates, we conduct third
23 party, we have a third party stack tester come in and
24 verify our emission rates that we are measuring. Through
25 some concurrent testing with the stack sampler we did

1 identify that the third party was measuring consistently
2 higher emission rates coming out of that UO2 main stack.

3 So effective in 2009 we actually applied a
4 sampling factor to the emissions, and that accounts for
5 the increase that you see from 2009 and beyond. So it was
6 the application of that sampling factor effective January
7 1st of 2009.

8 **MEMBER TOLGYESI:** But in the same paragraph
9 what you are saying that when the correction factor was
10 applied to 2009 resulting emission rates slightly
11 surpassed the action level of seven grams per hour, which
12 is not 1.4, but seven. So I feel that, you know, when you
13 have 1.4, 1.3, 1.2 it's consistent. But you are saying in
14 2009 you were measuring and you find that the third party
15 measurements were higher than yours, and it should be
16 seven, not 1.4. I'm a lost a little bit in these figures.

17 **MS. PETERS:** Okay. Rebecca Peters for the
18 record.

19 The data that's in that table is actually
20 the annual average. So that is the average number, that
21 1.3, 1.4 ---

22 **MEMBER TOLGYESI:** M'hm.

23 **MS. PETERS:** --- numbers. Those are the
24 averages over the course of the year. The three points
25 that are referred to on the next page are actually

1 individual days. So those would be the maximums measured
2 for that day so that the information is simply providing,
3 that staff's provided, is the annual average which is not
4 the same as the individual days.

5 **MEMBER TOLGYESI:** What it's telling me and
6 proving me that your figures are not consistently lower
7 when you were doing three -- one, or two, or three days of
8 spot checks your measurements were lower. Could I say
9 that it's consistently over a year like this?

10 **MS. PETERS:** Rebecca Peters for the record.
11 The three days that were identified after
12 we -- and just for clarification, we retroactively applied
13 that factor. So that factor was -- the source testing
14 that was conducted was conducted in June of 2009. The
15 factor was applied retroactively to the data as of January
16 1st. When we retroactively applied that factor we
17 identified three days that had these elevated emissions.

18 Those days were days that we were actually
19 doing maintenance work on emissions control equipment. So
20 we were able to explain the higher emissions results for
21 those particular days.

22 **MR. CLARK:** Dale Clark for the record.

23 Just one other point maybe to clarify that
24 and to ensure and help to understand that. That sampling
25 is conducted every day. So those yearly average results

1 are an average of every day sampling conducted. So the
2 exceedances of seven that you mentioned were out of all of
3 those individual daily averages, there were three
4 individual days where it was above seven. When averaged
5 with all the other 300 and some daily results it comes to
6 the 1.3, 1.4 numbers.

7 **MEMBER TOLGYESI:** Which means that when you
8 were comparing to third party measurements you were
9 consistent with them for other than these three days?

10 **MR. CLARK:** Dale Clark for the record.

11 So the -- we applied a correction factor to
12 ensure that all of our results are consistent with the
13 third party measurements. So that initially indicated
14 there was some discrepancy. We applied a correction
15 factor to those results that ensured that all of our
16 results would match and would be consistent with the third
17 party testing and results.

18 After that correction factor was applied
19 that resulted in three individual daily results above the
20 level of seven.

21 **MEMBER TOLGYESI:** So do you have staff,
22 some comments on this?

23 **MR. ELDER:** In terms of I think what has
24 just been explained is correct. They do sampling, Cameco
25 does sampling every day. Then periodically they have an

1 independent party do sampling at the same day as they --
2 you know, and in conjunction with them, one of those in
3 2009 there was a discrepancy between what the independent
4 sampler and the Cameco one.

5 Cameco then said, well, if I'm reading ten
6 percent low I'm going to go back and change all my past
7 values and add ten percent to them. I'm using ten percent
8 example. When they did that three of those past days went
9 above their daily action level, which is seven grams per
10 hour.

11 **THE CHAIRMAN:** Okay. I think we get it.

12 **MR. ELDER:** Yeah.

13 **THE CHAIRMAN:** Okay. Any other ---

14 **MEMBER BARRIAULT:** Just one brief question,
15 Mr. Chairman. My understanding is that on your stack,
16 your main stack you've installed a HEPA filter on it? You
17 don't have a filtration system on your stack?

18 **MR. CLARK:** Dale Clark for the record. We
19 did install -- we installed nine HEPA filters over the
20 course of this licensing period.

21 **MEMBER BARRIAULT:** Right.

22 **MR. CLARK:** Those were not installed on the
23 main stack, those were installed on building ventilation
24 sources in both the UO6 and the UO2 plants.

25 **MEMBER BARRIAULT:** Okay, thank you.

1 **MR. CLARK:** Yeah.

2 **MEMBER BARRIAULT:** That's all, Mr. Chair.

3 **THE CHAIRMAN:** Okay. Last question. And I
4 just want to make sure that we are clear on moving onto
5 day two. Just from Cameco and from staff, I'd like you to
6 talk little bit about is there any relationship between
7 the Vision 2010, we maybe consider changing the name to
8 Vision 2012 maybe, between the requirement to coming on a
9 licence for that activity will have no impact on the
10 operating licence you're seeking for five years right now.

11 So we should not mix apples and oranges
12 here. Did I get it right, or is there going to be an
13 impact, possible impact between Vision 2010 implementation
14 licence and the operating licence that you're seeking
15 right now?

16 **MR. THORNE:** So Andy Thorne for the record.

17 So just to clarify your comment on the name
18 of Vision 2010. Interestingly we have chosen another name
19 for Vision 2010. The project's name will be renamed to
20 Vision in Motion. That renaming, we didn't want to
21 complicate the environmental assessment process, so we
22 needed to keep the Vision 2010 name through that process.
23 But once we move into the, basically the detail design and
24 the implementation phase of this project it will be
25 renamed to Vision in Motion.

1 terms of it's a decommissioning activity versus this
2 current licence that says it allows them to operate the
3 current facilities and store material on the site. It
4 does not allow them to decommission. So they would either
5 have to amend this licence or to include the
6 decommissioning requirements for those other buildings.

7 I'm just reminded, they need to give us
8 some details on how they're going to do that
9 decommissioning.

10 We have two issues that are of most concern
11 to us: One is, how do you decommission old buildings
12 while you're operating new buildings beside them? So how
13 are they going to do the work control to make sure that
14 the decommissioning does not affect the safe operation of
15 the current facilities?

16 Our other main issue is, how are they going
17 to address the harbour wall, and making sure that their
18 activities have to be coordinated with what's going on
19 with the Port Hope air initiative on the clean-up of the
20 harbour. So our issue is to make to sure that they do
21 whatever can be done to make sure that harbour is not
22 recontaminated after all the clean-up activities.

23 **THE CHAIRMAN:** Okay, anything else?
24 Any other questions? Okay, thank you very much. This I -
25 - Marc, what do I have to ---

1 **THE REGISTRAR:** So this brings to a
2 close the public portion of the hearing. The hearing is
3 to be continued with day two on January 18th and 19th,
4 2012, at the Town Park Recreation Centre in Port Hope.
5 The public is invited to participate, either by oral
6 presentation or written submission on the hearing day two.
7 As indicated earlier, persons who wish to intervene on
8 that day must file submissions by December 19th, 2011.

9 So the hearing is now adjourned to
10 January 18th. We will take a short break and start the
11 hearing on the application for Cameco at what, 3:00?
12 3:05?

13 **THE CHAIRMAN:** 3:05.

14 **THE REGISTRAR:** Three o five (3:05), for
15 the next hearing, thank you.

16 **THE CHAIRMAN:** Thank you.

17

18 --- Upon recessing at 3:14 p.m.

19 --- L'audience est suspendue à 15:14

20