

1 **Cameco Corporation : Application**
2 **by Cameco Corporation For Renewal of**
3 **Class IB Nuclear Fuel Facility Operating**
4 **Licence for its facility in Port Hope, Ontario**

5
6 **06-H18.1 / 06-H18.1A**

7 **Oral presentation by Cameco Corporation**
8

9 **MR. GRANDEY:** Thank you, President Keen,
10 and Members of the Commission and Staff.

11 My name is Jerry Grandey. I am the
12 President and Chief Executive Officer of Cameco
13 Corporation. And with me today is Bob Steane, immediately
14 to my right, the Vice President responsible for our Fuel
15 Services Division. Bob will be presenting today and
16 tomorrow. Some of the managers of our Ontario facilities
17 are behind me and they'll be introduced to you all later.
18 And also with us is John Jarrell, Vice President, Safety
19 Health & Environment for the corporation.

20 It's a great pleasure to be back before the
21 Commission which is now in support of Licence Renewal
22 Applications for Port Hope, for the Port Hope Conversion
23 Facility, our Blind River Refinery and our Zircatec
24 Manufacturing Facility.

25 And these facilities are a key link in the

1 world's nuclear fuel supply chain. They are big
2 contributors to the communities where they operate and we
3 are extraordinarily proud of all of them.

4 In 2001, the CNSC changed its approach and
5 extended the duration of our licences for these facilities
6 to five years and from two.

7 Five years goes by very quickly but
8 throughout the licence period we have responded
9 effectively to issues that emerged, both operationally and
10 through the regulatory process. Our commitment to
11 protecting the health and safety of people and the
12 environment is constant, but our business landscape has
13 changed dramatically over the licenced period.

14 There is very little question now that the
15 nuclear renaissance is underway, underway throughout the
16 world and Canada is well positioned to take a lead in that
17 development.

18 It is now clear that the demand for our
19 products from all of our fuel services operation will
20 increase in the years ahead. And the growing optimism of
21 that nuclear energy is creating for us, and in many orders
22 in this business, new opportunities. But to take full
23 advantage of these opportunities we need to bring new
24 projects on in a timely and predictable manner.

25 Inability to do this has already cost

1 Cameco an opportunity to process the new fuel required by
2 the Bruce "B" reactors, otherwise, known as "SEU".

3 There is no question that we could have
4 plunged into slightly enriched uranium or SEU simply while
5 protecting the environment at the Port Hope conversion
6 facility.

7 However, in our enthusiasm, we did not
8 adequately engage the Port Hope residents to ensure an
9 informed discussion. The SEU experience, with some
10 prodding from the CNSC, I might add, demonstrated to us
11 that we could do a better job of fostering community
12 understanding of our operations. And through that we have
13 responded.

14 We have made a concerted effort to engage
15 the people of Port Hope in a meaningful dialogue on issues
16 related to our operations. Through an ongoing series of
17 public forums the people in the community have defined for
18 us the issues they want more information on.

19 We received a lot of positive feedback on
20 this process and the level of negative rhetoric has
21 declined. In polling conducted in June, we found that 80
22 per cent of Port Hope residents support continued
23 operation of the conversion facility.

24 This is an improvement on the strong
25 support we have enjoyed in Port Hope for many years.

1 Given this and the record of the SEU to date, support for
2 Cameco did not draw below 66 per cent.

3 Sensitivity to community concern is also
4 reflected in our operating performance. In consultation
5 with the CNSC Staff, we have greatly enhanced our fire
6 protection and emergency services at the conversion
7 facility and we are committed to further improvements in
8 the months ahead.

9 Security is another area where we have made
10 and we will continue to make significant improvements as
11 appropriate to each individual facility.

12 Cameco's operating philosophy is
13 underpinned by a commitment to build a strong safety
14 culture in each of our operations. And here we recognize
15 and appreciate the leadership that CNSC has showed in this
16 area in helping to promote the importance of a strong
17 safety culture for ongoing excellence.

18 To conclude, I would like to note the
19 importance of Cameco's fuel service operations. Our
20 refinery in Blind River and the conversion and fuel
21 manufacturing operations at Port Hope fuel 20 per cent of
22 Canada's electricity generation, seven per cent of the
23 U.S. electricity generation and three per cent of
24 Europe's. Zircatec supplies about half the fuel bundles
25 used in Canada's reactor fleet and has applied for

1 approval to produce low-void reactivity fuel to enhance
2 the performance of the Bruce "B" reactors.

3 We also make a big contribution to
4 Northumberland County. We provide 700 quality, industrial
5 jobs, generate business opportunities for local firms and
6 support cultural and charitable activities in the
7 community.

8 Our economic impact study showed direct
9 spending in Port Hope by Cameco totalling almost 63
10 million dollars in 2005, accounting for nine per cent of
11 all economic activity in this municipality.

12 A lot of people are counting on us and that
13 gives us a responsibility to maintain a safe and
14 environmentally-sustainable operation and earn public
15 trust.

16 I believe we are meeting that possibility
17 and hope that the Commission will agree at the conclusion
18 of these hearings.

19 Finally, I thank you for the time and
20 attention you are devoting to this matter which is, of
21 course, of great importance to Cameco and certainly to the
22 communities in which we operate. And now I will ask Bob
23 Steane to continue our presentation. Bob?

24 **MR. STEANE:** My name is Bob Steane and I'm
25 Vice-President of Chemicals, Fuel Services Division.

1 Madame Chair, members of the Commission, Secretariat and
2 members of the public, I am pleased to be here to present
3 a review of the Cameco Port Hope Conversion Facility
4 performance over the past licenced period in support of
5 our application for a five year licence renewal.

6 With me sitting here are Hess Carisse, the
7 Manager of Technical Services, Tim Kennedy, our Manager of
8 Production, Kirk Vektor, Superintendent of Compliance and
9 Licensing, Tyler Rouse, Emergency Services Coordinator,
10 Paul Riopel of Emergency Response Management Consulting
11 and our support Staff.

12 Many of the topics are outlined in the
13 slides mid-term licence review and subsequently captured
14 in the Commission's Record of Proceedings.

15 The Port Hope Conversion Facility is
16 located over 100 kilometres east of Toronto on the shore
17 of Lake Ontario. The facility is located in the
18 municipality of Port Hope and currently has approximately
19 400 employees.

20 The two primary products produced at the
21 facility are uranium dioxide or UO₂, which is used in
22 CANDU reactors and uranium hexafluoride or UF₆ which is a
23 feedstuck for the enrichment process and subsequently used
24 in light-water reactors.

25 The facility plant has an annual production

1 limit of 12,500 tonnes of uranium of UF6 per year. It
2 operates 24 hours a day, seven days a week with a one-
3 month maintenance shut-down each year. The UO2 plant is
4 licensed to produce 2800 tonnes per year as uranium
5 dioxide and it operates 24 hours a day, five days a week.

6 The facility is also licensed to produce
7 2,000 tonnes of uranium metal per year, but there was no
8 metal production over the licenced period. Cameco has
9 removed the equipment to produce metal at the facility,
10 but retains the ability to melt and cast uranium metal.
11 Accordingly, CNSC Staff have amended the draft operating
12 licence to reflect this change.

13 In the area of Occupational Health & Safety
14 our site motto is "No job is so important that we cannot
15 take the time to do it safely." And this philosophy is
16 applied to everything that we do at the facility and it is
17 reflected in our record of safe operation.

18 Our annual lost time accident frequency has
19 decreased since 2003 from two lost time accidents per
20 200,000 hours worked to .5 lost time accidents per 200,000
21 person hours.

22 Now although the five year moving average
23 for medical aids has remained relatively stable over the
24 licenced period, our annual frequency of medical aid
25 incidents has increased. This increase is due in part to

1 Cameco's aggressive physiotherapy program aimed at
2 reducing lost time accidents due to early injuries.

3 Each time an employee receives
4 physiotherapy it is counted as a medical aid. However we
5 also attribute part of the decrease in annual lost time
6 accident frequency to the success of this program. Our
7 first aid incidents have remained stable through the
8 licenced period.

9 The five year moving average for lost time
10 accident frequency has been below one and relatively
11 stable through the licenced period. However there was a
12 slight increase in the years 2003, 2004, but that trend is
13 again decreasing in 2005 and 2006.

14 The five year moving average for medical
15 aid frequency has remained relatively stable to actually a
16 slight declining trend over the licenced period.

17 Some of the initiatives undertaken during
18 this licenced period include developing and implementing a
19 formal Health and Safety Management Program, the creation
20 of key performance indicators for the health and safety
21 program and the implementation of an ergonomics program to
22 address a significant cause of medical aid and lost time
23 accidents.

24 In the radiation protection program our
25 annual average whole body dose to employees was less than

1 half the public dose limit over the licenced period. The
2 maximum annual whole body dose received by an employee was
3 8.0 mSv. The annual average skin dose ranged from .5 mSv
4 per person to 1.3 mSv per person, with an annual maximum
5 of 14.5 mSv.

6 The elevated level for whole body dose was
7 exceeded twice during the licenced period. The chemicals
8 ranged -- the safety officers thoroughly investigated
9 these incidents but neither investigation identified a
10 specific cause for the elevated results. Both employees
11 received personal coaching from the radiation safety
12 officers on the principles of time, distance and shielding
13 to keep their personal doses as low as reasonably
14 achievable.

15 One employee received a lung burden of 16
16 mSv while working on a UO2 drumming station. Cameco
17 forwarded an investigator's incident and corrective
18 actions were developed and implemented. The full details
19 of this incident were provided to the Commission at our
20 mid-term hearing.

21 Cameco implemented an internal dosimetry
22 program in April of 2003. The results of the first year's
23 dose assignments were submitted to CNSC in June, 2004, and
24 this resulted in a request from the CNSC for Cameco to
25 apply for a dosimetry licence. An application for a

1 dosimetry licence for the urinalysis and lung counting
2 programs were submitted to the CNSC in August, 2006.

3 Cameco is currently revising the
4 calculation for assigning lung count doses to ensure the
5 doses are assigned on a calendar-year basis.

6 Since the inception of the lung counting
7 program only four employees at the facility have been
8 assigned personal doses. All other employee doses were
9 less than detectable and, accordingly, were assigned the
10 group average dose.

11 The average annual lung counting dose was
12 1.5 mSv per person and a maximum assigned lung dose was
13 10.8 mSv.

14 The doses assigned through the urinalyses
15 program are very small. The annual average dose assigned
16 through urinalyses was only 0.1 mSv, where the maximum
17 individual dose was only .9 mSv.

18 This is an area for future discussion with
19 CNSC's radiation specialists as the existing urinalyses
20 program consumes a disproportionate amount of resources
21 relative to the risk.

22 Cameco has addressed all action notices and
23 directives for the 2003 Radiation Protection Audit.
24 Annual ALARA targets were set starting in 2004. The
25 radiation protection program was expanded over the

1 licenced period. We added a health physicist, a second
2 Radiation & Safety Officer and a technician to the group.

3 Now these additional resources allow us to
4 better administer the radiation protection program at the
5 facility and to focus on implementing our allotted targets
6 to achieve continual improvements in this area.

7 Cameco is currently assessing its fence line
8 gamma monitoring procedure with a goal of setting action
9 levels for all monitoring stations. Currently the action
10 levels are applicable through the stations closest to the
11 critical receptors at each of the two sites. That's the
12 main site and the Dorset Street Warehouse.

13 Now this report of these new action levels
14 proposed will be issued to CNSC in the fourth quarter of
15 2006.

16 Improvements were made to the Flame
17 Reactors and they have significantly reduced the frequency
18 of the ash can exchanges which is one of the significant
19 sources of whole body dose at the facility. The number of
20 ash can changes has dropped from 125 a month in 2002 to 15
21 per month in 2006.

22 Some highlights under Environmental
23 performance over the licenced period are no licence limits
24 were exceeded; fluoride emissions were reduced while other
25 emissions remained stable and the public dose was reduced.

1 The facility's total annual uranium
2 emissions reflected an increase over previously recorded
3 results due to a refinement in the calculation of the
4 effluent emissions. But through process optimization
5 Cameco was able to reduce the fluoride emissions by 60 per
6 cent during this licenced period. And the dose to the
7 public as measured in the critical receptor for the main
8 site has shown a decreasing trend over the licence period
9 and it represents about 10 per cent of the licence limit.

10 The ambient air monitoring results and
11 ground water monitoring results have remained stable over
12 the licenced period. A few wells are showing elevated
13 ammonia concentration due to localized reducing
14 conditions. And it should be noted that these wells are
15 located upstream of the ammonia storage tanks at the
16 facilities.

17 Cameco has developed and implemented a
18 long-term soil monitoring program to replace the soil
19 test-plot study that was abandoned due to poor statistical
20 reliability of the data.

21 Cameco had identified 25 locations with
22 collection of soil samples over the long term. The
23 results of the first samples collected will form a
24 baseline for this study and they were submitted to the
25 CNSC in late September, 2006.

1 The installation of a concrete wall in the
2 warehouse at the main site has reduced the fenceline gamma
3 at this location by about 60 per cent.

4 Cameco issued its Ecological Risk
5 Assessment Report in October of 2004. At that time five
6 data gaps were identified and programs recommended to
7 address these gaps. Four of the five programs have been
8 completed. The fifth program was originally dependent on
9 the outcome of the third and fourth programs, however,
10 CNSC Staff requested that Cameco complete a "site specific
11 characterization of soil conditions" in the vicinity of
12 the conversion facility, independent of the outcome of the
13 third and fourth programs.

14 We submitted a draft scoping document for
15 CNSC review and completed a sample collection in the
16 summer of 2006. The analysis of these samples is nearly
17 complete and we expect to issue a report in the 4th
18 quarter of 2006.

19 In the areas of quality assurance and
20 training, Cameco revised its quality assurance program
21 which has been accepted by CNSC and was issued in March of
22 2006.

23 A type 1 inspection was conducted in our
24 facility in June, 2006 in the areas of quality assurance,
25 environment and training.

1 The quality control manual for pressure
2 retaining components is a provincial requirement, and that
3 program was formally accepted by the TSSA, the "Technical
4 Standards & Safety Authority." A certification of
5 authorization was issued February 28th, 2005 and it's
6 valid until December 17th, 2007.

7 Cameco has revised its design control
8 processes and that documentation has been submitted and
9 accepted by the CNSC. Cameco is actively implementing a
10 "Systematic approach to training".

11 In the area of Fire and Building Codes,
12 assessments were completed in 2000, 2004 and 2005 and good
13 progress has been made in addressing the actions from
14 these assessments.

15 CNSC Staff have proposed a number of new
16 licenced conditions, specifically with respect to fire
17 protection. An example of this is the NFPA-801 standard.
18 Although we endorse this as an objective, we have been
19 held to different standards in the current licence.

20 We want to be sure that the time the new
21 licence becomes effective, we have inadvertently placed
22 into a state of non-compliance because perhaps a
23 transition period was necessary but had not been provided.
24 Therefore we are asking for a period to first determine
25 what the new licence conditions will require and then for

1 a phase-in period to achieve compliance.

2 Cameco believes it is appropriate in this
3 situation to engage in further dialogue with CNSC Staff
4 with a view to obtaining clarification on some of the
5 proposed licenced conditions in advance of the Day-2
6 hearings.

7 Emergency Response was an area of intense
8 focus over the last half of our licence period. Cameco
9 dedicated a great deal of resources to this initiative and
10 is pleased that we now meet the regulatory requirements in
11 this area.

12 Nevertheless we recognize that our
13 emergency response organization is still young and many
14 opportunities for improvement remain.

15 Cameco looks forward to continuing to work
16 with the Port Hope Fire Department in the area of joint
17 training to further strengthen our working relationship.
18 Cameco conducted an emergency response exercise in May of
19 this year in cooperation with the Port Hope Fire
20 Department. Cameco considered the exercise to be a
21 success as the opportunities for improvements identified
22 were consistent with the expectations of a newly formed
23 organization. This exercise was witnessed by CNSC Staff.

24 These pictures show the emergency response
25 team in training and in the emergency response exercise.

1 Cameco has committed and has conducted a significant
2 amount of training over the past two years, some of which
3 was done jointly with the Port Hope Fire Department. Here
4 you can see our emergency response team training on a
5 live fire at Lambton College. They also participated in
6 joint fire training with the Port Hope Fire Department at
7 Ontario Power Generations' Westleyville Training facility.

8 CNSC Staff identified four areas of concern
9 related to fire protection. And this program was assigned
10 a "C" grade, which is the only "C" received by Cameco's
11 Fuel Services Division, but Staff also recognized that our
12 performance is improving.

13 Cameco expects to have these four concerns
14 fully addressed by the end of the first quarter of 2007.
15 The first area is operating policies and procedures.
16 Cameco submitted draft standard operating guidelines, or
17 SOGs, to CNSC Staff to address this area of concern.
18 However Cameco identified that these SOGs could be
19 improved and set out to revise these documents. We have
20 nearly completed the revision to the "SOGs" and will be
21 submitting them to the CNSC by the end of the 4th quarter
22 of 2006.

23 The second area of concern is the provision
24 of an assessment to support the number of initial
25 responses needed at the facility. Cameco will submit to

1 CNSC by November 15th a justification for the required
2 numbers of responders to the facility so that this
3 information is available for the Day-2 hearing. Cameco
4 also believes the completion of the fire hazard
5 assessments will provide further support for the level of
6 fire response needed at the facility. Cameco submitted an
7 action plan for the completion of the fire hazard
8 assessments in September of this year.

9 The third concern related to the
10 documentation of roles and responsibilities of both on-
11 site and off-site responders. Cameco has addressed this
12 concern and the pre-incident plans that were submitted to
13 CNSC Staff in April of 2006.

14 Cameco identified areas for improvement in
15 these documents and resubmitted the pre-incident plans for
16 the UF6 and UO2 plans in September, 2006. The remainder
17 the pre-incident plans are also being revised and will be
18 submitted to the CNSC.

19 And the fourth concern identified by the
20 CNSC pertains to the emergency planning documentation,
21 including emergency action plans. This information has
22 not been requested by the CNSC prior to the issuance of
23 the Staff CMD for this re-licencing.

24 However, Cameco believes this information
25 is available at our site and we'll work with CNSC Staff to

1 provide the necessary document to satisfy this request.

2 In the area of security, Cameco completed a
3 third party risk assessment in 2002 that resulted in
4 enhanced security provisions at the facility. The details
5 of these enhancements cannot be discussed at this hearing.

6 Cameco also prepared a written security
7 plan which contains no prescribed information in order to
8 permit the public's distribution of this document. A copy
9 of this plan was provided to the Municipality of Port
10 Hope.

11 Now Cameco's refining and conversion
12 facilities were the world's first bulk handling facility
13 to come under IAEA safeguards. The bulk handling of
14 uranium presented some of the unique challenges to the
15 safeguarding process. The successful implementation of
16 the added safeguards in these facilities allow the IAEA to
17 draw a broader safeguard conclusion for Canada.

18 Cameco is continuing to improve its site
19 documentation and accounting processes to better
20 facilitate the safeguarding process in the future. There
21 was only one significant event during the licence period.
22 Now this incident involved a leaking plug in a 30B UF6
23 cylinder. The UF6 containment system, as shown in the
24 picture, worked as designed and prevented a release of
25 UF6 beyond the cylinder filling area. The full details of

1 this incident were previously reported to the Commission
2 in a Significant Development Report.

3 There were a number of other initiatives
4 undertaken during the licence period, some of which arose
5 in our mid-term review. Cameco's Vision 2010 project
6 entails a comprehensive plan for the redevelopment of the
7 facility and is currently in the schematic design and
8 preliminary development stage. A project description was
9 submitted to the CNSC in June, 2006.

10 Cameco's lease with the Central Pier was
11 renegotiated with the municipality for a five year period,
12 with an option for an additional two years.

13 The model in this photo shows buildings
14 that will be removed through the Vision 2010 project in a
15 dark color. The light coloured buildings would remain.

16 This photo shows the potential layout of
17 the site after the completion of Vision 2010. Existing
18 buildings are shown in a darker color and the new
19 buildings are shown in a light color.

20 An issue raised during a mid-term hearing
21 pertained to the stability of the harbour wall along the
22 east side of the main site. Cameco retained a consultant
23 to conduct an assessment of the impact to the main site
24 structures from a potential harbour wall failure and
25 submitted this assessment to the CNSC.

1 The report concluded that in the unlikely
2 event of a harbour wall failure only the pipe rack would
3 be affected. The risk associated with such an impact is
4 considered acceptable due to the low hazardous material in
5 the pipe rack and our ability to isolate the flow of these
6 materials. Furthermore, the pipe rack will be relocated
7 as part of the Vision 2010 project.

8 Another issue raised during the mid-term
9 hearing pertained to the efficacy of a preliminary
10 decommissioning plan. To address this issue Cameco
11 revised its preliminary decommissioning plan. The revised
12 plan resulted in an increase in the estimated
13 decommissioning costs and the increase is primarily due to
14 increased labour costs, estimated soil volumes, cost for
15 disposal of clean materials and transportation. And
16 Cameco will issue a financial guarantee upon acceptance of
17 the preliminary decommissioning plan by the CNSC.

18 Cameco addressed the pounding of storm
19 water on the west side of Building 5 by installing a
20 larger sump with a 200 volume pumps. Storm water has not
21 accumulated in this area since the new sump was installed.

22 The issue of flooding was originally raised
23 in association with the former SEU project. Despite the
24 withdrawal of the SU project Cameco has continued to work
25 with its consultants and the Ganaraska Regional

1 Conservation Authority to complete the flood mapping
2 reported for the Ganaraska River. Cameco submitted this
3 report to the CNSC and has subsequently addressed the
4 CNSC's comments on the report.

5 Cameco also completed a flood proofing
6 assessment based upon the conclusions and the floodmapping
7 report. All building floor levels are at least .2 meters
8 above the regulatory flood level so little action is
9 required in this regard.

10 The probable maximum flood event is
11 predicted to impact on a small portion of the facility but
12 the likelihood of this event is extremely low.
13 Accordingly, Cameco plans to address this issue as part of
14 the Vision 2010 project.

15 Cameco completed an updated facility safety
16 report that included an assessment of risks associated
17 with fire. The assessment determined there were no
18 unacceptable or undesirable risks associated with fire.

19 In the area of community outreach, Cameco
20 has significantly improved its approach to community
21 outreach which has measurably increased public support.

22 The polling results have increased steadily
23 from January, 2005. The Vision 2010 project was initiated
24 with an extensive consultative process involving a broad
25 cross-section of stakeholders. This led to the formation

1 of a "Stakeholder Liaison Committee" which will be active
2 throughout the Vision 2010 project.

3 One of the outcomes for the Vision 2010
4 public consultation process was the creation of the
5 community liaison process to bring a common understanding
6 of Cameco's operation to all interested parties. These
7 forums will improve Cameco's community outreach in five
8 key areas.

9 These open meetings feature expert
10 briefings on subject areas, question and answer sessions
11 and workshops. Part of the community outreach includes a
12 periodic newsletter providing details on Cameco's
13 activities in the Port Hope community.

14 Further information is provided to the
15 public on a community-specific website,
16 "Camecoporthope.com"

17 Cameco has also continued to provide
18 quarterly presentations to municipal council, host open
19 house events and work with area schools. Cameco has also
20 participated in numerous community events such as the West
21 Northumberland Home & Trade Show and the Port hope Fall
22 Fair.

23 At the 2006 Fall Fair about 4,000 people
24 visited our exhibit and engaged in communication about our
25 operations.

1 **MR. HOWDEN:** Thank you. Good morning,
2 Madame Chair, members of the Commission.

3 For the record, my name is Barclay Howden
4 and I'm the Director-General of the Directorate of Nuclear
5 Cycle and Facilities Regulations. With me today are Mr.
6 Henry Rabski, Director and Mr. Marty O'Brien, Project
7 Officer in the Processing and Research Facilities
8 Division, as well as the rest of the members of our
9 licensing team.

10 CNSC Staff has reviewed the operation of
11 the facility and the licensee's application to renew its
12 Class 1B Nuclear Fuel Facility's operating licence that
13 will expire on February 28th, 2007. Based on this review,
14 CNSC Staff has formed a position on the application which
15 is documented in the two CMDs. The position includes a
16 recommendation that the Commission renew the operating
17 licence for another five year term.

18 I will now pass the presentation over to
19 Mr. Rabski first and then to Mr. O'Brien who will provide
20 you with CNSC Staff's recommendations for licence renewal.

21 **MR. RABSKI:** Good morning Madame Chair,
22 Members of the Commission; for the record, my name is
23 Henry Rabski.

24 Our presentation this morning has six
25 parts. I will first provide an introduction followed by a

1 discussion of CNSC Staff's review of Cameco's licence
2 renewal application.

3 Following that Mr. O'Brien will highlight
4 the licensee's safety programs and performance in various
5 safety areas along with updates on follow-up actions from
6 the January 2002 licence renewal and the February 2005
7 Mid-Term performance review public hearings.

8 Following that, other relevant information
9 to this licence renewal including the changes proposed to
10 the current licence conditions will be discussed.

11 Finally, to end our presentation, Mr.
12 O'Brien will present CNSC Staff's conclusions and
13 recommendations for the licence renewal. Throughout our
14 presentation this morning we will refer to the licensee,
15 "Cameco Corporation" as "Cameco".

16 Cameco owns and operates a Class 1B Nuclear
17 Facility in Port Hope Ontario under Licence "FF0L-
18 3631.1/2007", which was issued on March 1, 2002 for a five
19 year term and expires on February 28th, 2007.

20 Cameco produces two main products at the
21 Port Hope facility: Uranium Dioxide powder for use in
22 CANDU fuel and Uranium Hexafluoride for Light Water
23 Reactor fuel production. Each product is produced at a
24 separate plant at the facility. The feedstock for each
25 plant is Uranium Trioxide produced at the Blind River

1 Refinery.

2 In addition, a Metals Plant is used to
3 produce Specialty Uranium metal products, including
4 casting uranium metal into shielding and counterweights
5 for certain types of aircraft. The facility also includes
6 a stand-by plant for UO₂ production.

7 There are also a number of site support
8 operations used to support the production facilities,
9 including: materials handling operations which handles
10 the feed material and product storage produced at the
11 facility; a powerhouse for supplying site services; an
12 analytical laboratory which has the capabilities for
13 analyzing environmental and bioassay samples; and finally
14 a waste management support services group.

15 The primary sources of risk that this
16 facility present to persons and the environment are the
17 following: exposure to nuclear substances, primarily
18 natural uranium compounds; exposure to hazardous materials
19 used in production, including Hydrogen Fluoride, Ammonia
20 Hydroxide and Nitric Acid; and finally conventional
21 hazards related to a chemical operation.

22 Risk control features in place at this
23 facility include: built-in process features and systems,
24 with a primary objective of containing and preventing
25 dispersion of nuclear and hazardous substances, along with

1 administrative controls as specified in the facility's
2 various safety programs.

3 Besides the Canadian Nuclear Safety
4 Commission there are a number of other regulatory agencies
5 with significant involvement at the facility, including
6 Human Resources & Skills Development Canada, which
7 monitors compliance with worker safety requirements under
8 the Canada Labor Code, Part II; the Ontario Technical
9 Standards & Safety Authority, which are designated by the
10 CNSC as "Authorized Inspectors" for the purposes of
11 inspecting compliance with CNSC regulatory requirements
12 related to pressure boundary integrity; and the Ontario
13 Ministry of Environment which have issued a "Certificate
14 of Authorization" for the site and monitor compliance with
15 provincial regulations related to air and water emissions.

16 The operating licence for the facility
17 expires February 28, 2007 and Cameco has applied for the
18 renewal of the licence for another five-year term.

19 The application did not include a request
20 for authorization of any new activities that are not
21 currently authorized under the licence.

22 The application was provided in a timely
23 fashion and CNSC Staff's review of the application
24 concludes that it meets the requirements and that an
25 environment assessment under the Canadian Environment

1 **Assessment Act** is not required.

2 This completes the second part of our
3 presentation and now I will ask Mr. O'Brien to continue
4 with the rest of the presentation.

5 **MR. O'BRIEN:** Thank you, Mr. Rabski. Good
6 morning, Madame Chair, members of the Commission. For the
7 record my name is Marty O'Brien.

8 Staff's assessment of individual safety
9 areas will be summarized in the next slides.

10 I will highlight Staff's assessment of the
11 licensee's performance in key safety areas. I will update
12 the Commission on any follow-up actions from the January
13 2002 licence renewal and February 2005 Mid-Term licence
14 review hearings.

15 There are eight key safety areas of this
16 facility namely: Radiation Protection, Environmental
17 Protection, Quality Assurance, Emergency Management, Fire
18 Protection, Operations, Safeguards and Security.

19 Since the security program contains
20 prescribed information, a separate report was provided to
21 the Commission as CMD 06-H18.A.

22 I will briefly describe the assessment of
23 each safety area in the next slides.

24 I will begin with the area of Radiation
25 Protection. At the time of the licence renewal hearing in

1 January of 2002 the implementation of a new regulatory
2 requirement to determine internal doses to workers had
3 been delayed in accordance with provisions of the CNSC's
4 Regulatory Transition Plan.

5 For assigning internal dose to workers, the
6 CNSC's Regulatory Transition Plan allowed uranium
7 processing facilities to develop and implement a program
8 to determine internal dose to workers by March 31, 2003.
9 The licensee developed the new program and began
10 implementation in April of 2003.

11 With respect to worker doses, CNSC Staff's
12 review of worker dose data for the period 2002-2006
13 indicated that radiation doses are being adequately
14 controlled. No Nuclear Energy Worker (NEW) at the
15 facility received an effective dose in excess of the
16 regulatory limits. And the average doses recorded were
17 well below the regulatory limits.

18 In March of 2003, CNSC Staff conducted a
19 Type 1 inspection to evaluate Cameco's implementation of
20 the Radiation Protection Program. The inspection
21 identified improvements to the program as well as
22 deficiencies and Cameco has satisfactorily completed
23 corrective actions to address the deficiencies identified.
24 Continuing on with Radiation Protection.

25 Public dose exposure during the current

1 licence period has been well below regulatory limits. The
2 calculated maximum radiation dose to the most exposed
3 resident near the Port Hope facility boundary due to
4 emissions was 0.069 mSv/year in 2002. The CNSC regulatory
5 public dose limit is 1 mSv/year.

6 As a follow-up item from the 2005 Mid-Term
7 hearing, Cameco and CNSC Staff have performed measurements
8 to assess the risks of neutron radiation fields emitted
9 from UF6 cylinders. The measurements have concluded that
10 the levels are acceptably low, however further ongoing
11 monitoring is required to ensure the fields remain
12 acceptably low and as low as recently achievable or
13 "ALARA."

14 CNSC Staff concludes that the radiological
15 risk to workers and the public over the current licence
16 term has been low and the overall performance of Cameco in
17 this safety area meets requirements. A performance rating
18 of "B" with little change was given in this area of
19 safety.

20 Now I will cover the Safety Area of
21 environmental protection.

22 Regarding environmental protection, the
23 prime hazard to the environment from the CNSC licensed
24 activities carried out at the facility is natural uranium.
25 Release of fluorides is also a significant hazard.

1 these recommendations and has completed most of the
2 required actions.

3 The main outstanding action relates to the
4 study of site-specific soil parameters for the purposes of
5 comprehensive soil characterization in order to determine
6 whether or not uranium would accumulate in Port Hope soil
7 to levels that could pose a health or environmental risk
8 in the future. CNSC Staff have reviewed Cameco's proposed
9 design for the study and found it to be acceptable.

10 At the 2005 Mid-Term Hearing conducted for
11 the facility the issue was raised concerning the proximity
12 of the facility to Lake Ontario and the Ganaraska River
13 and the risk of flooding the property. At the time of the
14 hearing, the flood lines in the facility were in the
15 process of being re-mapped by the Ganaraska River
16 Conservation Authority.

17 CNSC Staff have reviewed the report issued
18 from this study and have requested that Cameco take the
19 findings of the CNSC Staff review into account in their
20 assessment of the need for additional site floodproofing
21 measures.

22 The report Cameco has produced on proposed
23 floodproofing measures have been received and is currently
24 under review by the CNSC Staff.

25 Based on effluent and environmental

1 monitoring results CNSC Staff concludes that the
2 operations at the facility are effectively controlled with
3 the Environmental Protection Program and mitigation
4 measures in place.

5 CNSC Staff conclude that the Environmental
6 Protection Program and its implementation have met
7 regulatory requirements.

8 Accordingly, a rating of "B" with little
9 change was given in this area of safety.

10 Next, I will briefly talk about the Quality
11 Assurance safety area.

12 The licensee has a well established Quality
13 Assurance program in place to ensure that the licence
14 activities are conducted in a controlled and safe manner.
15 During the licensing period, the licensee updated this
16 program and submitted it for CNSC Staff for review and
17 acceptance.

18 The latest version of this document dated
19 January 2006 was reviewed and accepted by CNSC Staff.

20 In February 2002, CNSC Staff conducted a
21 Type 1 inspection in this safety area. The inspection
22 identified deficiencies and Cameco has satisfactorily
23 completed corrective actions to address these
24 deficiencies.

25 A Type 1 inspection was also conducted in

1 June, 2006. In CMD 06-H18 it was indicated that the
2 results of that inspection would be reported prior to the
3 Day-2 hearing.

4 As an update to the Commission, the report
5 for this inspection has recently been issued and no major
6 items of non-compliance were identified which would impact
7 Staff's overall assessment that the licensee meets
8 requirements in this safety area.

9 Moving on to the safety area of Emergency
10 Management. In September, 2002 Cameco submitted an
11 updated copy of its Emergency Response Plan. This
12 document was modified to align with the provisions of the
13 CNSC Regulatory Guide G-225: "Emergency Planning at Class
14 1 Nuclear Facilities and Uranium Mines and Mills."

15 The program was reviewed by CNSC Staff and
16 was found to be acceptable.

17 As reported to the Commission at the 2005
18 Mid-Term Hearing, an issue arose in October 2004 regarding
19 the adequacy of the application of the Emergency Response
20 Plan to a significant fire at the facility involving
21 hazardous materials.

22 As reported to the Commission in a
23 Significant Development Report at a CNSC meeting in
24 February, 2006, Cameco has taken a number of actions to
25 address this issue, including deploying a minimum number

1 of Cameco emergency response Staff on-site 24/7 to respond
2 to fires and other incidents, and has implemented a paging
3 system to call in other Cameco emergency response Staff
4 that are not on-site when an incident occurs.

5 Cameco emergency response Staff have
6 received additional training to respond to fires on-site
7 that progress beyond the incipient level. Off-site
8 emergency responders, including a number of volunteer fire
9 fighters from the Port Hope Fire Department have been
10 provided site awareness training as well as advanced
11 hazardous materials training.

12 New equipment has been purchased to address
13 a major fire event, including a fire truck which has been
14 commissioned and is available on-site, 24/7.

15 CNSC Staff conducted an audit in May, 2006
16 of an exercise involving a significant fire scenario
17 involving hazardous materials. During this exercise
18 Cameco demonstrated its enhanced capability to respond to
19 an on-site fire and to coordinate their fire teams with
20 the Port Hope Fire Department who act as back up support
21 to Cameco during the exercise.

22 Considering Cameco's timely completion of
23 actions respect their on-site emergency response
24 capabilities, and on-site verification of the combined
25 emergency response capabilities with the Port Hope Fire

1 Department, CNSC Staff is satisfied that this issue has
2 now been adequately resolved.

3 With regard to an emergency response to
4 incidents that don't involve fire and chemicals, Cameco
5 has also conducted a number of exercises in this area.

6 CNSC Staff concludes that Cameco's
7 emergency management plans and their implementation meet
8 regulatory requirements and is given a "B" rating. Due to
9 recent significant improvements in the area of fire
10 emergency response the safety area has been given an
11 upward performance trend.

12 I will now cover the safety area of Fire
13 Protection.

14 Assessment activities conducted during this
15 licence period have included Fire Inspections conducted in
16 January, 2004 and August, 2005, and review of licensee
17 submissions, including fire program documentation, status
18 reports on fire protection upgrades being implemented on-
19 site, and the third party reviews as required by licence
20 conditions.

21 During the current licence period
22 significant improvements were noted in fire protection
23 program provisions related to emergency response, however
24 further improvement is required, primarily in
25 documentation and supporting analysis for this activity.

1 Significant upgrades related to fire
2 protection were also completed during the current licence
3 period to achieve compliance with national building and
4 fire codes as required by new licence conditions
5 introduced at the last licence renewal in 2002.

6 An acceptable rate of progress has been
7 made in performing physical upgrades to buildings and fire
8 protection systems to achieve compliance. However,
9 additional action is required to achieve full compliance
10 with requirements raised to operational fire safety.

11 As a result of the CNSC's Staff's
12 assessment, a rating of "C - Below Requirements" is
13 assigned to this safety area. Due to improvements noted
14 during the current licence period an upward performance
15 trend has been assigned.

16 I will now talk about the Safety Area of
17 Operations. The Safety Area of Operations covers a
18 licensee's programs and procedures for facility
19 operations, including reporting.

20 CNSC Staff conducted routine inspections of
21 Cameco's facility 4-6 times per year during the current
22 licence period to verify that the licensee's safety
23 programs achieve compliance and CNSC regulatory
24 requirements are being implemented effectively.

25 Items raised during inspections were

1 considered to be minor deviations from requirements or
2 expectations, and have been addressed or are being
3 addressed within a schedule acceptable to CNSC Staff.
4 When additional information was required, Cameco responded
5 in a sufficiently timely manner.

6 Quarterly Compliance Reports were regularly
7 reviewed with Cameco Staff during routine inspections to
8 review licensee's actions to address any adverse trends or
9 action level exceedences in the facility monitoring data;
10 for example, stack emissions.

11 CNSC Staff is satisfied that sufficiently
12 prompt action was found to be taken to address any such
13 occurrences.

14 During the review period three significant
15 events were reported to the Commission by Significant
16 Development Reports. These events included: a leak in a
17 30B UF6 cylinder that took place during filling in June,
18 2004; a labour interruption that took place in
19 August/September 2004; and, finally, an incident that took
20 place on March 17th, 2005 -- it actually involved two
21 minor incidents, however, it was reported to the
22 Commission because there was significant local media
23 attention.

24 In each of these instances, Cameco took
25 appropriate -- short term actions to minimize the risks

1 arising from the event. For the two significant events
2 related to site incidents, long term was action taken to
3 prevent re-occurrence of similar events which was also
4 considered acceptable by CNSC Staff.

5 During the licence period CNSC Staff also
6 reviewed the licensee's response to other incidents which
7 took place and considered the response to be acceptable.

8 CNSC Staff concludes that Cameco has
9 operated its facility in accordance with regulatory
10 requirements during the licensing period assessed.
11 Accordingly, a rating of "B" with little change in the
12 safety area was assigned.

13 In the area of Safeguards, during the
14 current licensing period, safeguards at Cameco Port Hope's
15 facility was extended to cover the entire plant due to a
16 change in IAEA policy. In the past, safeguards at this
17 facility had started with the production of UO-2, uranium
18 dioxide and uranium hexafluoride. The initial physical
19 inventory verification of the newly safeguarded material
20 was successfully completed in the summer of 2005.

21 During the current licence period, the
22 IAEA, with CNSC participation, conducted five physical
23 inventory verifications, five design information
24 verifications and ten interim inventory verifications.

25 Cameco was also subject to three

1 complementary access requests from the IAEA, which
2 involved inspections conducted on a short-term notice.

3 Based on the review of these submissions
4 and inspections conducted, CNSC Staff concludes that the
5 licensee has met the safeguards requirements laid out in
6 the licence conditions. Accordingly, a rating of "B" with
7 little change was given in this area of safety.

8 Regarding the safety area of security, as
9 indicated previously the assessment of this area is
10 reported separately in CMD 06-18.A, since it contains
11 prescribed information.

12 This concludes the Safety Area Review
13 portion of the presentation. I will now present other
14 information relevant to the CNSC's Staff's licence renewal
15 recommendations.

16 Regarding the Public Information Program,
17 since the last licence renewal Cameco submitted a revised
18 Public Information Program to the CNSC Staff for review.

19 The program was reviewed in the spring of
20 2006 against the expectations set out in the Regulatory
21 Guide G-217 issued in January, 2004.

22 The review was completed and the program
23 was considered acceptable by CNSC Staff in April, 2006.
24 However, it was strongly recommending that the program be
25 enhanced to provide more information on how the licensee's

1 activities will affect the environment and the health and
2 safety of workers and the community.

3 Cameco has taken further action to address
4 this recommendation as detailed in supplementary CMD 06-
5 H18.B.

6 Since the last licence renewal Cameco has
7 maintained an acceptable Preliminary Decommissioning Plan
8 or "PDP" and an acceptable financial guarantee. During
9 the licence renewal process a proposed revised PDP was
10 submitted in June, 2006 and is under review by CNSC Staff.
11 The proposed revised PDP indicates a significant change in
12 the cost estimates for decommissioning.

13 Once the CNSC Staff review is completed and
14 the revised PDP is accepted, Cameco will be required to
15 submit a revised financial guarantee accordingly. CNSC
16 Staff will provide an update to the Commission on this
17 matter prior to the Day-2 Hearing.

18 Regarding licence amendments during this
19 current licence period, in May, 2003 the licence was
20 amended to increase the UF6 production limit from 40 to 45
21 tonnes/day. This was approved by CNSC Staff after Cameco
22 performed a safety assessment of this change.

23 Regarding cost recovery, Cameco is in good
24 standing with the CNSC with respect to the payment of
25 licensing fees for the facility.

1 With respect to application of the CEAA,
2 CNSC Staff concludes that an environmental assessment
3 under the CEAA is not required before the Commission may
4 make its decision in respect of the application for the
5 renewal of the licence.

6 Continuing on to the other relevant
7 information, CNSC Staff recommends a number of changes to
8 the current licence conditions, the most significant being
9 the change to conditions related to fire protection.

10 Two changes are proposed to the current
11 licence conditions regarding fire. First, **the National**
12 **Building Code of Canada** and **National Fire Code of Canada**
13 have recently been revised and Staff recommends the
14 licence reference the current 2005 editions.

15 Secondly, consistent with other Class 1B
16 fuel fabrication facilities, CNSC Staff recommends the
17 inclusion of NFPA-801 (2003) edition, "Standard for Fire
18 Protection for Facilities Handling Radioactive Materials."

19 With the inclusion of NFPA-801, the Fire
20 Protection program will require revisions to address
21 additional elements currently not mandated by the National
22 Codes.

23 Regarding the licence period, Cameco has
24 requested a period of five years. CNSC Staff also
25 recommends a five-year period. In order to keep the

1 Commission informed of the licensee's performance, CNSC
2 Staff is prepared to submit a mid-term performance report
3 to the Commission.

4 In terms of the future outlook, one of the
5 significant projects that has been proposed by Cameco is
6 the Vision 2010 Project. This project description was
7 submitted in June, 2006 and entails a comprehensive
8 redevelopment of the facility.

9 The project involves the removal of a
10 number of old or under-utilized buildings, the removal of
11 contaminated soils, building materials and stored
12 historical wastes and the construction of new replacement
13 buildings at the facility.

14 In CMD 06-H18 it was reported that the
15 project is currently undergoing a determination by CNSC
16 Staff under the Canadian Environmental Assessment Act.

17 To update the Commission on this matter,
18 this determination has now been completed and the Vision
19 2010 project will be required to undergo a Comprehensive
20 Study assessment.

21 Next I will present the CNSC Staff's
22 conclusion based on the findings from the compliance
23 inspections, review of licensee's performance and
24 assessment of licence's application for licence renewal.

25 CNSC Staff concludes that: Cameco is

1 qualified to carry on the activities that the proposed
2 renewed licence will authorize; Cameco's application for
3 licence renewal meets the requirements of the Nuclear
4 Safety and Control Act and its regulations; Cameco has
5 made and in CNSC's Staff's opinion, will continue to make
6 adequate provision for the protection of the environment,
7 the health and safety of persons, and the maintenance of
8 security and measures required to implement international
9 obligations to which Canada has agreed; the risks posed to
10 the environment, to the health and safety of persons and
11 to national security, given the measures and safety
12 programs that are in place or will be in place by the
13 licensee to control the hazards, are not unreasonable.

14 And, finally, an environmental assessment
15 under the Canadian Environmental Assessment Act is not
16 required.

17 And, finally, to end our presentation, I
18 will present CNSC Staff's recommendations for the licence
19 renewal.

20 CNSC Staff recommends that the Commission:
21 accept Staff's conclusions made in CMD 06-H18; and approve
22 the renewal of the proposed Nuclear Fuel Facility
23 Operating licence FFOL-3631.0/2012, to Cameco Corporation,
24 for a period of five years, valid to February 29, 2012.

25 This concludes Staff's presentation. I

1 will now turn it over to Mr. Howden.

2 **MR. HOWDEN:** Thank you, Barclay Howden
3 speaking; Madame Chair, that concludes our presentation
4 and Staff is prepared to respond to questions.

5 **THE CHAIRPERSON:** Thank you very much.

6 I would like to re-emphasize that the
7 proceedings today are being webcast to the community in
8 Port Hope, and we also understand that the local community
9 television station has also picked up the webcasting so
10 that people watching in Port Hope will have an opportunity
11 to hear today's proceedings, but also to note that the
12 transcripts of the hearings are available quite shortly
13 after the hearings, and those will also be available to
14 all.

15 And to note, that we will be in the
16 community for Day-2 of this and the ZIRCATEC hearing as
17 well with both the industry, the licensee and with the
18 Staff.

19 I'd like to start before I open with my
20 colleagues, for a question to Mr. Grandey.

21 As you mentioned, Mr. Grandey, you have an
22 important purpose with the Nuclear industry in Canada, the
23 nuclear cycle itself. And I'd just like to perhaps give
24 you an opportunity to elaborate a little bit on your
25 earlier comments, your introductory comments.

1 An interesting thing that the Canadian
2 industry really is, if I can put it that way, the first
3 line of defence in health and safety of that the industry
4 is responsible for the health and safety of their
5 establishment.

6 And, again, also that you're a private
7 company with a Board as well, so you have a Board as well.

8 I wonder if you'd wish to elaborate a
9 little bit for the Commission. You could focus on the
10 Port Hope facility, but you could be broader as well if
11 you wish, on the discussions that you have, and your
12 management team, and with the Board, on the health -- the
13 matters of concern to us really, health and safety of the
14 workers and of the communities, and a little bit about the
15 vision for how this culture is part of your organization.

16 Perhaps if you wish to elaborate, sir.

17 **MR. GRANDEY:** Excuse me, Madame Chair,
18 Jerry Grandey for the record.

19 It's a broad, broad topic and I would say -
20 - and it is really one that from Cameco's perspective will
21 never -- it's a continual journey, we'll never end up
22 getting to the end.

23 Like most corporations it starts with a
24 governance framework, and that governance framework -- and
25 it applies to all of the facilities that we have that

1 would be of interest to the Commission of which there
2 would be eight.

3 So the Board of Directors has a specially
4 constituted committee that is Safety, Health &
5 Environment, and they establish the overall policies, the
6 overall tenure and tone, if you will, that Cameco must
7 apply in all of its operations.

8 That, of course, then devolves down into
9 the way management conducts our own business and our own
10 operations. We have our own internal governance
11 committees and organizations; we have a management
12 committee that takes all of this extremely seriously.
13 And I would say that at the start of every meeting that
14 Cameco has, what we look at first and foremost, would be
15 "Safety, Health & the Environment." And so it really
16 doesn't make any difference what meeting it is, it starts
17 out with attention to that particular activity.

18 We, of course, have our own -- as far as
19 management is concerned, we have our own Safety, Health &
20 Management sub-committee, and it meets regularly to look
21 at how we're performing across the organization.

22 Over the years we have, I think, in
23 response to consultation with the CNSC, in recognition of
24 changing and evolving standards, tried to become much more
25 systematic as to how we deal with these things and much

1 more uniform across the organization.

2 Five years ago or even before that most of
3 these topics were site considerations. Sites were
4 responsible - a different history, different background,
5 different safety culture, and if we recognized anything
6 over the last little while, it is that we really need to
7 have a lot more consistency and uniformity across the
8 organization. That means changing culture, not just
9 safety culture, but the culture of the organization as to
10 how we look at environmental protection, how we look at
11 public safety in each one of the operations in changing
12 that safety culture. And for the last five years over the
13 licenced period we have been engaged heavily in a lot of
14 change initiatives that have been directly related to
15 trying to instill in each one of the sites on a more
16 uniformed basis and much stronger safety culture and
17 beginning to look at, as of about a year and a half ago,
18 something I like to call "environmental leadership", which
19 is how do we -- and as "Cameco", and as we described the
20 advent of a nuclear renaissance, where we talk about
21 nuclear as clean energy, how do we make sure in delivering
22 fuel -- and that goes all the way from exploration through
23 the manufacturing of fuel bundles, how do we make sure
24 that what we do is equally clean and living up to public
25 expectations?

1 So over the course of the licenced period,
2 in all of those areas, I would say we have been undergoing
3 fairly radical change. Not easy - no easy to change the
4 safety culture and it still doesn't make it automatic, and
5 it's not easy to do and become environmental leaders, but
6 it's a journey that we're on, full support of the Board of
7 Directors, full support of management, but as I indicated
8 at the outset of my comments, it takes, I think as you all
9 know, years to begin to change that culture and get beyond
10 just having a system of documents.

11 **THE CHAIRPERSON:** Thank you very much,
12 sir.

13 Now we'll start the questions. Dr. McDill?

14 **MEMBER McDILL:** Thank you.

15 My first question relates to CMD 06-H18 and
16 the miscellaneous issues, particularly the flooding and a
17 little bit on the geo-technical stability, but with
18 respect to the floodplain calculations, I wonder if I
19 could ask Staff and Cameco if it's satisfied that the
20 modelling, the 1 and 2D modelling is -- represents current
21 engineering practice?

22 The one thing that came to my notice was a
23 user manual dated 1994, so I'd just like a comment on
24 that, please from Staff and from Cameco.

25 **THE CHAIRPERSON:** Perhaps we'll have Cameco

1 first.

2 **MEMBER McDILL:** Thank you.

3 **MR. STEANE:** Bob Steane, for the record.

4 The work -- I suppose the short answer is
5 "yes". I believe that that work is to today's standards.
6 The consultant that was used did a very thorough study and
7 then that work was independently pre-reviewed by another
8 consultant who were hired by and commissioned by the
9 Ganaraska Regional Conservation Authority who also
10 reviewed the work. So there's been the consultant who did
11 the work and pre-reviewed by another consulting firm and
12 accepted by the Ganaraska Regional Conservation Authority
13 who are all people expert in such matters.

14 **MR. HOWDEN:** Barclay Howden, for the
15 record.

16 I am going to ask our specialist in this
17 area, Dr. Son Nguyen to come up and comment on the quality
18 and whether the work was done to current standards. Thank
19 you.

20 **MR. NGUYEN:** For the record, my name is Son
21 Nguyen; I'm a Technical Engineer with the Geoscience and
22 Environmental Compliance Division.

23 My comment would be on the geo-technical
24 issue, the harbour stability problem. We just received
25 the report, the assessment report from Cameco on the

1 harbour stability where an analysis has been done to
2 determine the extent of failure in case the wall
3 completely fails. And this report concluded that even in
4 the case of such a failure, the buildings won't be
5 affected. The only thing which would be affected would be
6 the pipe rack. And we found it to be acceptable, so this
7 is my assessment of the harbour wall stability.

8 On the issue of flooding I would ask -- I
9 think, Dr. Shizhong Lei is more appropriate to answer the
10 question.

11 **MR. LEI:** For the record, my name is
12 Shizhong Lei. I'm a Geoscience Specialist.

13 With regard to the codes that they were
14 using to do the floodmapping, the model is kind of
15 industry standard and it has been used very widely and
16 there is not much change since. I consider this model
17 proper for this purpose.

18 **MS. McDILL:** Thank you. And thank you also
19 for the answer to my second question.

20 My other question on this is, will these
21 reports, the response submitted by Cameco be available to
22 the public by Day-2?

23 **(SHORT PAUSE)**

24 **MS. McDILL:** As it's been submitted to
25 Staff. I think it would be Staff who would answer.

1 **MR. HOWDEN:** Barclay Howden speaking for
2 the record.

3 Sorry, I reversed the answers there on you
4 because the geo-technical was related to the flooding.
5 But with regard to Cameco's responses on these, they're
6 all available. They are public documents. They haven't
7 been put out there, be whether Cameco wanted to put them
8 out publicly or whether someone wanted to request from us
9 and then we would make them available.

10 **THE CHAIRPERSON:** I think the question was,
11 could they be made available to the Commission?

12 **MR. HOWDEN:** Barclay Howden speaking. Yes,
13 they can.

14 **THE CHAIRPERSON:** Thank you.

15 **MS. McDILL:** Thank you, I'll stop there in
16 Round 1.

17 **THE CHAIRPERSON:** I just wanted to make
18 sure that Cameco felt that they had enough time to talk
19 about the issue of the geo-technical, the pier stability
20 issue; were you comfortable that you had enough time?

21 **MR. STEANE:** Bob Steane, for the record.
22 Yes, I concur with the answer from CNSC Staff as well,
23 that the report was adequate and competent and dealt with
24 the matter that was before us.

25 **THE CHAIRPERSON:** Thank you. I'd like to

1 now turn it to Mr. Harvey.

2 **MEMBER HARVEY:** Merci, Madame la
3 présidente. We find in the report a large variety of
4 numbers and results of the performance of the facility.
5 In order to facilitate an evaluation of those numbers by
6 the Commission, as well by the public, it would be of
7 great value to have a joint report, some maps, locations.
8 I'm talking of maps regarding liquid, affluent or
9 discharge or give us samplings of locations, some maps
10 like this. So my question is, can you provide such maps
11 for the next meeting, for the next hearings?

12 **MR. STEANE:** Bob Steane, for the record.
13 Absolutely, yes, we have provided maps in the past; we do
14 make maps available and would be pleased to provide them
15 at the Day-2 hearings.

16 **MEMBER HARVEY:** It would be interesting.
17 Thank you.

18 My second question would be about the stack
19 sampling. I would like to know how exactly the air
20 emission monitoring in the facility -- how many stacks you
21 have, what type of instrumentation are you using and is
22 the sampling conducted on really a continuous basis and
23 what happens if a system is out of order?

24 And the last question, sub-question would
25 be, how do we have in the report averages; and is there

1 any possibility of peaks that could be of interest for the
2 Commission?

3 **THE CHAIRPERSON:** We'll start with the
4 licensee and then move to the Staff.

5 **MR. STEANE:** Yes, Bob Steane. I didn't
6 catch the last part of your question in terms of you said
7 the average; are you asking ---

8 **MEMBER HARVEY:** Yes, how do we see in the
9 report the averages; we've got averages, and we can see
10 that is decreasing with years, something like that. But
11 is there any possibility of peaks in your operation of
12 higher numbers that could happen during the normal
13 operation that is higher than an average or lower than an
14 average? And I've raised it, just having numbers and then
15 just tracing a line. It would be interesting to know I
16 mean for the Commission if there is any possibility of
17 peaks that are not appearing here but happened in the
18 normal operation period?

19 **MR. STEANE:** Bob Steane. The short answer
20 is yes, those are averages, but we are monitoring things
21 and reporting them on a much more frequent basis daily and
22 that information can be put into some graphical form, it's
23 just over the five-year licence period there such a mass
24 of data that we condensed it for the presentation into
25 those averages.

1 What I would do as well on your earlier
2 question about what monitoring do we do and how do we
3 measure it and the whole program, I would ask Kirk Vektor,
4 our Superintendent of Compliance and Licensing to give you
5 some response in more detail on that.

6 **THE CHAIRPERSON:** If I could also ask, I
7 think what we're talking about is ranges, if there is
8 anything that you have available that would give us a
9 sense of the range "grosomodo" that we have on those
10 areas, that would be helpful. And I imagine that the
11 Staff will talk about if there was any times of exceedance
12 of levels, that would be helpful to us.

13 **MR. VETOR:** Thank you. Kirk Vektor for the
14 record.

15 With respect to providing peeks and
16 maximums as well as ranges, this information is provided
17 to the CNSC Staff in the quarterly reports, quarterly
18 compliance reports, and certainly that wouldn't be a
19 problem to make that available for the Day-2 hearing.

20 As far as the question pertaining to how we
21 monitor our stacks and which stacks are monitored, the
22 main emission stacks from the two production facilities,
23 the UF6 plant and the UO2 plant are monitored on a
24 continuous basis. We use different technology for each of
25 the stacks.

1 In the UF6 main stack, while monitoring
2 particular emissions, primarily uranium, using a small
3 iso-kinetic electrostatic precipitator, those samples are
4 collected every day at approximately eight o'clock in the
5 morning and brought to the lab. So there's a continuous
6 monitoring there, but it's not necessarily a real-time
7 monitoring.

8 In the UO2 plant we're using an impinger
9 set-up which is similar to the type and quality that are
10 compliant stack testers used -- our consultants use when
11 they come in. And we're capturing all of the contaminants
12 in a liquid matrix and then bring those samples back to
13 the lab for analysis.

14 In the UF6 plant we do have real time
15 monitoring of our fluoride emissions, so there's three
16 analyzers there and that information is fed directly into
17 the control room so they have a real-time feedback of
18 those emissions at any given time.

19 There are stacks that are monitored
20 periodically through compliance stack testing and the less
21 significant sources, as well as the fugitive emissions are
22 calculated through engineering estimates and those numbers
23 are included in our monthly calculation of our total
24 emissions to the environment.

25 **THE CHAIRPERSON:** CNSC Staff?

1 **MR. HOWDEN:** Yes, Barclay Howden speaking
2 for the record.

3 From a regulatory perspective, what exists
4 are -- there's regulatory limits set on the stack
5 emissions; there's also what we call "action levels" which
6 are set just above sort of the operating noise level. The
7 indication is that if an action is exceeded there's a
8 possibility that there could be a loss of control such
9 that it prompts the licensee to make an investigation, but
10 also they must report to us.

11 From a numbers standpoint, in the licence,
12 the proposed licence, in Appendix "C" and "D" the action
13 levels are outlined there for radiological emissions and
14 for hazardous chemical emissions, and they're both the
15 same.

16 Also, Mr. O'Brien can comment on -- there
17 was one exceedance, and I'll let him speak to that for a
18 moment.

19 **MR. O'BRIEN:** Marty O'Brien, for the
20 record.

21 Yes, as Mr. Howden mentioned, on an going
22 basis the day-to-day emissions are monitored through the
23 use of action levels. An action level exceedance is also
24 required to be reported to the CNSC Staff. Once reported
25 we review those exceedances.

1 During the current licence review period
2 there was one action level exceedence recorded and it was
3 in the UO2 plant. We reviewed Cameco's response and
4 they're investigation indicated and determined that it was
5 a measurement error, it wasn't an actual loss of control
6 in the process, it was an error in the measurement system.

7 And CNSC Staff are satisfied with the
8 response to that occurrence. Thank you.

9
10 **(SHORT PAUSE)**

11
12 **THE CHAIRPERSON:** Do you have a further
13 question, Mr. Harvey? Dr. Paquet?

14 **MEMBER PAQUET:** My first question is
15 dealing with the governance issue.

16 You mentioned in page three that you have
17 two committees that discuss monthly issues related to
18 health and safety issues. I would like to know to whom
19 those committees report? And, second, who is responsible
20 for taking actions following recommendations from both
21 those committees?

22 **MR. STEANE:** Bob Steane, for the record.

23 I believe the committees you're referring
24 to are -- there are two workplace committees, one is a
25 policy committee and one is the Workplace Health & Safety

1 Committee. They are joint committees of the workplace and
2 they report to management the results. The committees are
3 facilitated by our Occupational Health & Safety Officer as
4 the facilitator/minute taker. The results of all the
5 meetings' minutes are taken, minutes are posted so that
6 all the work force sees the results of the what the
7 Committee is working on, their recommendations that they
8 make, reports and recommendations to management for
9 action.

10 **MEMBER PAQUET:** I have the same question for
11 the Stakeholder Liaison Committee.

12 **MR. STEANE:** Bob Steane.

13 The Stakeholder Liaison Committees were a
14 -- have come out of our public consultation process for
15 the Vision 2010 project and it's to engage the group in
16 the ongoing design.

17 They, again, the Committee is facilitated
18 by our Project Manager of the Vision 2010 Project, and
19 that committee meets -- initially when it was formed it
20 was meeting probably monthly and now its meeting maybe
21 quarterly or as significant development steps in the
22 ongoing developments on the Vision 2010 Project meets, and
23 they will meet and report back through the Project Manager
24 of that project.

25 The other one that perhaps I would add, is

1 there is what we would call -- that's the "Stakeholder
2 Liaison Committee." There are the public liaison forums
3 which are a separate process which we also have initiated.
4 It's been a fallout that's come out of the public
5 engagement process for the Vision 2010 project, and that
6 is advertised in public -- all public are welcome to
7 attend. And we're holding those -- we've had four so far.
8 The intent is to hold those every two to three months and
9 have a forum session on that. And that reports, that
10 committee, through our communications group and then back
11 through to Cameco management.

12 **THE CHAIRPERSON:** Dr. Barnes?

13 **MEMBER BARNES:** Thank you.

14 You've incorporated a lot of information in
15 your presentation on the Vision 2010, and while I
16 appreciate that it is mostly going to be in the licence
17 beyond this next one, nevertheless you do address it in a
18 way that the company is looking at it as a whole. But it
19 wasn't clear to me how much of it was actually going to
20 get converted into real action.

21 Could you give us some clarification about
22 what Vision 2010 means in terms of the realities of 2010
23 and lead up to that? You do say that you've got funding
24 or expect to have funding on a
25 federal/provincial/municipal arrangements here and Cameco

1 would be contributing to that; could you give us a more
2 tangible schedule for the removal of the buildings that
3 you showed in one of your powerpoints, on page 18 of your
4 powerpoints, and also the anticipated construction which,
5 again, you showed on that same powerpoint?

6 **MR. STEANE:** Bob Steane, for the record.

7 The Vision 2010 project, we have filed the
8 product description with the Commission to initiate the
9 environmental assessment process. We have received some
10 correspondence back that we'll be going through a
11 comprehensive study. The timelines -- and we have been
12 working in conjunction with the Port Hope Area Initiative
13 and their timelines and we're anticipating 2009 as being
14 the start of physical activity happening and 2012-2013 the
15 completion.

16 And, again, there's a couple of the things
17 driving the project schedule, but one of the big ones is,
18 we need to be in sync with the Port Hope Initiative just
19 because there needs to be a facility ready to receive the
20 materials as we remove them from the site before we can
21 start the work.

22 **MEMBER BARNES:** And I noted that you have
23 some options for the Central Pier; what's your long term
24 need for the Central Pier facility?

25 **MR. STEANE:** Bob Steane.

1 We don't use the Central Pier for day-to-
2 day operations; we use it for storage of some materials.
3 The main need of the Central Pier today is, it is a
4 storage place for historical waste materials that are
5 designated and destined for the Waste Management Facility
6 that is going to be built and constructed by the Federal
7 Government.

8 The property is part of the Port Hope Area
9 Initiative. It's part of the agreement between the
10 municipality and the Government of Canada to be cleaned up
11 by the Port Hope Area Initiative.

12 We entered into this extension of the lease
13 and the intent is, not that it necessarily runs the term,
14 the intent was that we would carry on as the leaseholder
15 until such time as the Port Hope Area Initiative receives
16 its approval and licence to start their work, and then
17 when they're ready to do that, the Central Pier lease, the
18 Central Pier would be turned over to them. So that within
19 that five-year period, based on those time-lines, we
20 anticipate that the lease actually -- this property would
21 transfer the control to the Port Hope Area Initiative
22 probably in 2008, 2009. The municipality and Cameco
23 agreed, to be sure we've covered the bases, we would have
24 the lease for five years, plus two possible years should
25 there be delays in the Port Hope Area Initiative.

1 **MEMBER BARNES:** I'd like to return to an
2 issue that Dr. McDill asked about, and that was the
3 hydraulic assessment of floodplain mapping report that
4 you've given us a substantial supplementary document. A
5 couple of things on it.

6 I recognize that the threat appears to be
7 readily minimal for most of your plant and that you've
8 indicated that in Vision 2010, that you would be able to
9 make certain kinds of adjustments. But I notice two
10 things, one that although it was indicated that it had
11 gone to a period of review and the period of review
12 document was at the end.

13 Nevertheless the reviewer asked quite a
14 number of questions and asked for clarification whether
15 certain additional things were needed, and there was no,
16 in a sense, response to the period of review. Is this the
17 end of that comment or was there another document that
18 responded to his many questions?

19 **MR. STEANE:** There is another document that
20 is in the process with the Ganaraska Regional
21 Conservational Authority. They haven't released that yet,
22 and until such time as that comes through, that report is
23 still in the works.

24 **MEMBER BARNES:** And if that report is
25 received, I guess we'll have a copy of it in Day-2.

1 I was surprised that in the report which is
2 really dealing with floods, and looking at historical
3 issues and taking Hurricane Hazel in 1980 as a maximum
4 level, that there's no reference in there to effect the
5 climate change.

6 Last year in Ontario there was -- it was a
7 hurricane year for East and North America and I was really
8 surprised that the document or the consultants didn't
9 consider some of the longer term projections that might
10 affect lake levels in Lake Ontario or whether taking
11 Hurricane Hazel was an appropriate benchmark.

12 So this is kind of an extreme thing, but
13 there is a document here and I was surprised that it was
14 not included, so maybe a comment from Cameco and Staff.

15 **MR. STEANE:** Bob Steane.

16 I'll preface this with I am not an expert
17 in these matters, but in that report the consultants did
18 look at the severe storm events. The initial work was
19 started with doing a complete study of the watershed of
20 the Ganaraska River and the run-off potential. It also
21 looked at -- there was the event of the Peterborough storm
22 which some see is not a fact of perhaps the climate change
23 and compared the Peterborough storm relative to the
24 flooding events that were predicted by the modelling of
25 the watershed.

1 So I thought they had, and the consultants
2 felt they had looked at all the possible scenarios within
3 the scope of what's known today and how these models and
4 work is conducted.

5 **MEMBER BARNES:** Well, it's been looked at
6 in the past -- there have been a number of regional
7 studies or advice on anticipated or expectation for impact
8 of climate change.

9 Now since we're looking ahead here, some of
10 that would have been incorporated, particularly since
11 we're dealing with a fairly low tolerance of .02 meters
12 under the regulatory flood level here. Does Staff have
13 any comment?

14 **MR. HOWDEN:** Barclay Howden speaking for
15 the record. Dr. Barnes, we're noting your comments as we
16 go along. I'm going to ask Dr. Shizhong Lei to provide
17 any -- if we have any further additional comments. Thank
18 you.

19 **MR. SHIZHONG LEI:** For the record, my name
20 is Shizhong Lei, and we looked at the flood line
21 definition and it's actually guided by the Ministry of
22 Natural Resources. They have defined regulatory floods
23 which is used to define the flood lines. And the
24 regulatory flood is defined as the maximum of the
25 following three floods: one is Hurricane Hazel which

1 happened in 1954 with huge damages to lives and
2 properties. And the second is the highest flood on
3 record. And the third one is the calculated 100 year
4 flood.

5 In this case Hurricane Hazel is the highest
6 -- has the highest flood level and volume, so they adopted
7 "Hurricane Hazel" as the regulatory flood to define the
8 flood line.

9 With regard to climate change, they didn't
10 specifically discuss about it, however, when they were
11 applying for the SEU project we -- the CNSC Staff
12 considered this and it could happen and included in their
13 PMP or PMF calculations. PMP is the "probable maximum
14 precipitation" and the flood results from PMF, is called
15 "probable maximum flood."

16 Even though the SEU project is cancelled
17 we, during our informal discussions with Cameco and their
18 consultants, we asked them to provide flood proofing on
19 their site based on the PMF. And in a way the PMP and PMF
20 has -- there's no impact of the climate change on those
21 numbers because PMP is based on the extreme conditions.
22 For example, the air that can carry that amount of water,
23 so it's already a physical extreme. So no matter how the
24 climate changes, the property of the air won't change so
25 the PMP and the PMF won't change.

1 And I'm very glad to see that Cameco has
2 submitted right after we finished writing this, Cameco has
3 submitted to us this flood proofing report, and I have
4 quickly reviewed it but I have not completed my review.

5 In this report the consultant of Cameco is
6 proposing -- actually they were adopting what we suggested
7 to them. They are using the PMP and PMF as their design
8 basis for the flood proofing.

9 **MEMBER BARNES:** Okay, I'll leave it at
10 that.

11 **THE CHAIRPERSON:** I think though that this
12 issue about changes that we see going forward, I just make
13 this as kind of a general comment -- because the
14 facilities that we're talking about regulating now and in
15 the future have such long lives, we're really talking
16 about facilities that will be in place for a long time.

17 I think, in general, I think the comment
18 that -- the question Dr. Barnes made really will, I think,
19 be coming back again and again in the minds of certainly
20 citizens of Canada, and I think, as such, the Commission
21 in terms of looking at how we design facilities and
22 clearly the margins that we take in any of the facilities
23 that we're looking at for the future, I think that this
24 would be a reasonable area of inquiry, not specifically
25 looking at this facility although you do have an ambitious

1 future for this project as well, but clearly there's a lot
2 of facilities we have that are on the water and issues
3 coming up in that area, so I think this is going to be an
4 important area of inquiry for the future.

5 I would like to turn to Dr. Dosman please.

6 **MEMBER DOSMAN:** Thank you, Madame Chair.

7 I would like to ask Cameco and Mr. Steane,
8 with regard to the lung count monitoring that you're
9 undertaking in the area of radiation protection, I would
10 like to ask how is the acceptability of the lung count
11 monitoring amongst the employees and what is your level of
12 confidence in lung count monitoring versus urine sampling,
13 particularly as I think you intimated that perhaps you'd
14 like, if I'm right, that you might like to reduce urine
15 sampling in favor of lung count sampling.

16 **MR. STEANE:** Bob Steane, for the record.

17 I think, first of all, introductory
18 remarks, the acceptance of lung counting by employees is
19 very high. Lung counting has been carried out at the Port
20 Hope facility and Blind River for many, many years. We
21 have a new lung counting device that we've run on and
22 commissioned in this licensing period, but there is no --
23 it is generally very well accepted by employees.

24 The other aspects, I don't think it's a
25 question of urine analysis versus lung count, they're a

1 combined program, but for that -- for more information I
2 think I would ask Kirk Vektor to provide more of the
3 background on the urinalysis and either reducing that or
4 looking at that versus the lung counting and how it fits
5 together.

6 **MR. VETOR:** Kirk Vektor, for the record.

7 At the present time we're conducting
8 approximately 50,000 plus urine samples per year. And
9 what they've done at the end of the year and when we
10 prepare our summary reports, we're looking at a dose, an
11 average dose to our employees of .01 mSv/y. And when we
12 look at where the maximum doses we're seeing on the site
13 are occurring, they're happening in both the whole body
14 and in the lung counting programs is where we're seeing
15 the real need for us to focus our efforts on.

16 And at the current time we have one lone
17 soul who is spending probably 70/80 per cent of his time
18 just on urinalysis programs. So we're saying, it is not
19 really a good use of resources. We could take that
20 radiation safety officer's time and put it towards the
21 programs where we're actually seeing the higher doses at
22 the site. And that was what we're after in that
23 particular comment.

24 And we've been in discussion with CNSC and
25 the radiation specialist in this regard.

1 **MEMBER DOSMAN:** Madame Chair, may ask CNSC
2 Staff if Staff has any comment on this issue.

3 **MR. HOWDEN:** Barclay Howden speaking.
4 I'm going to ask Project Officer Marty
5 O'Brien to comment.

6 **MR. O'BRIEN:** Marty O'Brien, for the
7 record.

8 The urinalysis program actually has two
9 purposes, just to clarify. One purpose is to determine
10 the dose of the workers, primarily the fast moving uranium
11 compounds that get into their system. But the other
12 purpose is similar to the -- we talked about action
13 levels. There's also the control element. They'll take
14 and do these samples on a regular basis to monitor whether
15 somebody gets an inordinant large intake so that the
16 control element is another important aspect.

17 The proposal to -- I believe Cameco's
18 proposal is to reduce the dose determination aspect. That
19 hasn't been reviewed by CNSC Staff yet, but if a formal
20 proposal is submitted, we will consider it for review.

21 **MEMBER DOSMAN:** Thank you.

22 May I ask Madame Chair, on page 8 of
23 Cameco's submission you refer to some elevated neutron
24 radiation levels and that you're currently conducting
25 bubble tube samples with personal dosimeters and that

1 these results aren't available but that they would be
2 available in the fourth quarter.

3 And I just would like to ask for more
4 clarification on those levels and this evaluation and
5 whether or not these results would be available by the
6 Day-2 hearing.

7 **MR. STEANE:** Bob Steane, for the record.

8 I'll ask Hess Carisse, our Manager of
9 Technical Services, to provide that information.

10 **MR. CARISSE:** For the record, my name is
11 Hess Carisse.

12 The methodology that we're using to
13 determine neutron doses to our employees is a recommended
14 method, and we have in the past used these, and the levels
15 that we're getting are very low. We're just in the
16 process of getting more to substantiate that, and they are
17 personal for each individual. So the data that we have
18 will be available for the Day-2 hearings as well.

19 **MEMBER DOSMAN:** I wonder if I might ask if
20 Staff have any comment on that issue?

21 **MR. HOWDEN:** Barclay Howden speaking.

22 I'm going to pass this Cherry Gunning, our
23 Radiation Protection Specialist with the focus on how
24 we're using these personal neutron dosimeters; it might
25 provide us with further information.

1 **MEMBER DOSMAN:** Thank you.

2 **MR. GUNNING:** My name is Cherry Gunning,
3 for the record.

4 I would just like to emphasize that any
5 numbers we've seen on neutrons from Port Hope so far are
6 low, they're not elevated. And we have seen area
7 monitoring results where they've placed the monitors in an
8 area left in there for a period of time. So now we've
9 asked Cameco -- and we put a number in the CMD which would
10 be if a worker stayed at the highest location for 2000
11 hours during the year, which is a gross over estimate.

12 So we have asked Cameco to give us some
13 information on how -- what the time workers would be in
14 those areas where they have measured neutron doses, and
15 that's the information we're still waiting for.

16 We've seen some preliminary numbers from
17 some additional monitoring and we wouldn't like to say
18 anything based on that. If we did a gross calculation
19 based on them, the number would be lower than what was in
20 the CMD.

21 **MEMBER DOSMAN:** Thank you.

22 **THE CHAIRPERSON:** I think the issue of
23 monitoring of radiation protection is very important. I
24 think that there's been some specific questions around it,
25 but because we will certainly, I imagine -- well, I

1 imagine we'll be coming back on Day-2 as well to this
2 issue.

3 I think that as far as the specific
4 questions that Dr. Dosman has raised, perhaps the Staff
5 could, as Ms. Gunning has started to talk about, give us
6 some sort of overall picture here as well as a picture, if
7 you could, quite succinctly of how the monitoring is done.
8 It's in the CMD, but just an overview of that, and the
9 levels that you're seeing versus what one would expect or
10 what one would predict by something say like -- such as
11 ALARA, and explain ALARA.

12 So if you could -- just because I think
13 that this is an issue that could be treated like this, but
14 I'd like it treated in a more macro sense.

15 **MS. GUNNING:** My name is Cherry Gunning,
16 for the record.

17 The workers' doses at Port Hope are
18 calculated from -- based on three things: they do workers
19 where what we feel they use thermal luminescent
20 dosimeters, but they have just change to optically
21 stimulated luminescent dosimeters. And that will give the
22 workers' whole body dose from gamma and beta radiation.
23 So every worker wears one of those badges. And it will
24 also give a shallow dose to workers which we might refer
25 to as skin dose.

1 The second component of the dose is from
2 the inhalation of uranium dust, the inhalation or
3 ingestion of uranium dust. And at Port Hope and Blind
4 River you'll see some of these materials are fast clearing
5 through the body and some are medium clearing and slow
6 clearing. So the clearance -- the amount of time the
7 uranium stays in the body is different and the dose will
8 be different.

9 So the uranium and urine monitoring is to
10 detect fast clearing uranium, but it will not detect slow
11 or medium clearing uranium. And the lung counting is used
12 to detect that.

13 So the urinalysis samples, the dosimetry
14 samples, I think workers are giving a urine sample, some
15 workers, I think, twice a month, or every two weeks, that
16 kind of frequency.

17 The lung counting, that slow moving
18 material is going to be in the body for a while and the
19 lung counting is done for some workers once every six
20 months, other workers, once every 12 months.

21 The levels compared to the dose limits are
22 very low. No workers are exceeding the dose limits.
23 Are the doses ALARA? Well, they're required to have a
24 radiation protection program that ensures that doses are
25 ALARA.

1 As Mr. Grandey says, it's a continual
2 process. I'm not sure if we ever want to stand up and say
3 that they are ALARA, but we are looking for indications
4 that they always have processes in place to ensure the
5 doses are ALARA.

6 And when we give a grade on the performance
7 of the radiation protection program, I think that that's
8 reflecting "Do we consider that they are working to make
9 sure doses are ALARA"?

10 **THE CHAIRPERSON:** Thank you. Would Cameco
11 like to make any comments on that overview?

12 **MR. CARISSE:** Madame Chair, it's Hess
13 Carisse for the record. We do have some data with respect
14 to some new neutron evaluations, and we could share that
15 with the Committee this morning. Kirk Vetor has that, and
16 he'll make some comments as well, if that's acceptable.

17 **THE CHAIRPERSON:** Thank you.

18 **MR. VETOR:** Madame, Kirk Vetor for the
19 record.

20 The statistics are fresh in and the CNSC
21 Staff have not had a chance to review this. It will be
22 put into a formal report, I just have the raw data in
23 front of me though.

24 We have taken the neutron bubble tubes and
25 used them as we would our regular dosimeter. We have

1 given them to employees to wear throughout their shift.
2 We've done three trials with 16 employees in each one, so
3 a total of 48 samples. The highest result we've received
4 is 0.2 mSv/hr. As for the single maximum, the majority of
5 the results that came back were less than zero. If you
6 pro-rate this value of 0.2 mSv per hour, which was for an
7 employee working in the cylinder filling area, which is
8 where that original dosimeter was placed, the stationary
9 dosimeter, that pro-rated to about .4 mSv per year as the
10 maximum. So, again, the results are very low.

11 **THE CHAIRPERSON:** Thank you. The nature
12 of our questions was really to get a sense, I suppose, the
13 envelope for protection of the workers which, I think, is
14 an important interest to the Commission.

15 I would like to take a break now of ten
16 minutes and we will come back with Mr. Graham and my
17 questions on Round one, and then a further Round Two, so
18 ten minutes, please. It is 10:31, that will be about
19 10:40, 10:42.

20

21 --- Upon recessing at 10:31 a.m.

1 --- Upon resuming at 10:44 a.m.

2

3

THE CHAIRPERSON: I would like to continue then with round one of questioning and Mr. Graham, please?

5

MEMBER GRAHAM: Thank you, Madame Chair.

6

7 Just as a follow-up question before I go to my original questions I was going ask to Dr. McDill and Dr. Barnes and then your comments, Madame Chair with regard to the flooding and the model of the worst case scenario of the hurricane of 1954 and the fact that the variance or the tolerances point, I believe, is .2 of a meter.

13

14 I wonder if on Day-2 if we could have relevant new data that takes into consideration that storm in 1954 caused a lot of damage, both to human and property damage, but there wasn't -- that was 52 years ago and that really didn't have an effect of what climate change has done in the ensuing years.

19

20 I wonder if there's any modelling or if we can find out if there's any data that might show us if with the climate change that has occurred, and compound that on top of a storm similar to 1954, if it could be worse.

24

25 Some are saying, and I believe one of the CNSC Staff said that the model that you used, the maximum

1 average wind that was falling at the time and so on, but
2 I'm just wondering if there's -- if we could check and
3 make sure that there is -- all the data is taken into
4 consideration.

5 And I don't know if that's out of order,
6 Madame Chair, but as a lay person I'm not confident yet
7 that what we've incorporated from that-- that have all the
8 information, because I think some of the information given
9 to Dr. McDill was the manuals of 1994, even that has
10 changed in 12 years. So I wonder if we could get that
11 information for Day-2.

12 **THE CHAIRPERSON:** Or would you like to
13 make some comments right now? First Cameco and then the
14 Staff, please?

15 **MR. STEANE:** Bob Steane, for the record.

16 I think that what we'll do is for Day-2, is
17 have the modelers, the people expert in that that we have
18 used to be here to raise that question with them and we'll
19 come to Day-2 in a position to have a more thorough
20 discussion of those aspects and concerns.

21 **THE CHAIRPERSON:** Or it could possibly be
22 some information in a CMD before then and we'll see if we
23 need the questioning, if that's appropriate.

24 **MR. STEANE:** Yes, Bob Steane. Yes, Madame
25 Chair, we'll do that.

1 **THE CHAIRPERSON:** Any comments from Staff?

2 **MR. HOWDEN:** Barclay Howden speaking.

3 We'll be prepared to comment on any
4 additional information that's brought forward. In our
5 assessments that were done we looked at a broad range of
6 things and Dr. Lei just gave you a very small amount, but
7 there is other information that the Commission is probably
8 not aware of, so the information submitted by Cameco with
9 us commenting from a regulatory perspective, we will be
10 able to do that.

11 **MEMBER GRAHAM:** Thank you. The only other
12 question that I ever had was with regard to fire
13 protection and that was the only part that didn't meet
14 the CNSC Standards in the grading system, and I followed
15 back to the licensing hearing before and so on and to see
16 what improvements have been made.

17 My question though is how many Staff of
18 Cameco are on site at any given time, 24/7 that have that
19 specific training for fire -- fighting fires or fire
20 protection with regard to hazardous waste and so on? How
21 many do you have at any -- on every shift, what is the
22 minimum that you're allowing?

23 **MR. STEANE:** Bob Steane for the record. I
24 will get Tyler Rouse who is our Emergency Services
25 Coordinator and responsible for the Emergency Response

1 Organization to address that question.

2 **MR. ROUSE:** Tyler Rouse, for the record.

3 Currently our minimum Staffing is four
4 E.R.T. but we schedule six. We've looked at our schedule
5 for October, November and December and our average ends up
6 being around seven. Our day crew or our personnel
7 emergency shift is generally around nine and our night
8 shift falls to around six or seven members. But our --
9 the amount that we set is four minimum with an incident.
10 Commander and with sick schedules. And the purpose for
11 the sick schedule is, if a guy calls in sick, you still
12 have the minimum requirement there on site.

13 **MEMBER GRAHAM:** My next question to CNSC
14 Staff is, is four minimum standard adequate to meet the
15 requirements of in-house fire protection?

16 **MR. HOWDEN:** Barclay Howden speaking.

17 I'm going to ask our Project Officer, Marty
18 O'Brien to respond to that.

19 **MR. O'BRIEN:** Marty O'Brien, for the
20 record.

21 Based on the current fire protection
22 provisions available on site, equipment included, CNSC
23 Staff's position is that the minimum number is acceptable.

24 **MEMBER GRAHAM:** My next question is to
25 Cameco again, with regard to off-site or -- you have a

1 pager system and so on; could you explain how many you
2 require and how fast Staff with a pager system, how many
3 that you can ensure that can get there and in what limit
4 of time? And then I'll ask the other question right now
5 too, it's with regard to the Volunteer Department. What
6 arrangements are made with them?

7 **MR. STEANE:** Bob Steane for the record.

8 I think it might be appropriate that we
9 give an overview of the functioning of our Emergency
10 Response Team from how many we have, the qualifications
11 they currently have and then how that whole department
12 functions, and how it links with the Port Hope Fire
13 Department.

14 I think since the last time we had this
15 discussion there have been tremendous changes made, so I
16 think it might be -- if it's acceptable to the Commission,
17 I will ask Tyler Rouse, our Emergency Services Coordinator
18 to give that overview.

19 **THE CHAIRPERSON:** That's acceptable,
20 thanks.

21 **MR. ROUSE:** Tyler Rouse, for the record.

22 Currently we have 48 members who are
23 Response Team members at Cameco; 48 of these members are
24 NFPA-600 certified, 47 are NFPA-472 hazardous materials
25 technicians-certified. The one that is not -- the one

1 member that is not technician-certified is an operations
2 level hazardous materials technician.

3 As far as recall goes, as I said before,
4 we'll have a minimum of four and an incident commander on
5 site with a scheduling of six. You know, depending on the
6 time of the day, like I say, we will have more on site.

7 Anytime we have a fire beyond the incipient
8 stage, which is the beginning stages of a fire, it is in
9 our procedures to do a recall of the E.R.T. and to call 9-
10 1-1. So with the recall we currently have 40 response
11 team members outfitted with telephone pagers. We use the
12 community alert network system to call the members'
13 pagers, as well as their home phones to tell them that
14 there's an emergency at the facility.

15 From there they call back and let us know
16 their expected time of arrival to the site. In addition
17 to that, any ERT member that is within Cameco's radio
18 range of the site has, what we call, a group 100 pager.
19 It's a radio pager so that immediately when there's a fire
20 alarm pulled and our security team dispatches the on-site
21 team to the response, everyone else who has that radio
22 pager away from the site hears that. If it's eleven
23 o'clock at night and we have a fire alarm pulled, I hear
24 it at home and so do these other 15 or 16 members that
25 have the radio pagers, so those that are within radio

1 range are already alerted that there's an emergency going
2 on, and are awaiting the phone call.

3 So response times can be anywhere from
4 three minutes to, you know -- it could be anywhere from
5 three minutes to 30 minutes, to an hour, but everyone does
6 call back in and let us know when they plan to be there.

7 We have a four man minimum; we're not
8 saying that if there's an incident we're going to fight
9 the whole incident with a four man; we do plan on doing a
10 recall any time there is a significant incident at the
11 site.

12 So for a fire we call 9-1-1 and we call our
13 E.R.T. For HAZMAT, for a significant hazardous materials
14 incident, again the same thing. We would call our E.R.T.
15 and we would call 9-1-1 to inform them of what is going on
16 at the site.

17 In regards to using the Port Hope Fire
18 Department, I've worked with Chief Haylow from the Port
19 Hope Department and working on pre-incident plans and
20 standard operating guidelines for response to emergencies
21 at the site, and we've worked out, you know, what the
22 responsibilities would be for a fire scenario at the site.

23 For a fire we would call them in and we
24 would use them for manpower and equipment "as needed." It
25 would be, you know, as a last resort that we asked their

1 firefighters to go into our buildings but just because our
2 firefighters know the areas a lot better than their
3 firefighters. But still we use the Port Hope Firefighters
4 to fight a fire at the Cameco site it is written in at the
5 request of the Port Hope Fire Chief that any time a Port
6 Hope firefighter enters a building, they're escorted by
7 Cameco E.R.T.

8 For hazardous materials incidents, we'll
9 use them in a back-up role as long as they are operating
10 within their scope of training or awareness level of what
11 they've agreed to with the municipality to respond to.

12 So I felt like we have a pretty good
13 working relationship there.

14 **MEMBER GRAHAM:** Thank you. Does CNSC Staff
15 have a comment on the -- I realize you've written up the
16 improvements and what's happened, but you're still giving
17 them a "C" rating, and I guess what I'd like to know is,
18 are you satisfied that progress is being made compared
19 mid-term and licensing, the last licensing hearings?

20 **MR. HOWDEN:** Barclay Howden speaking. for
21 the record.

22 I'd just like to make one clarification,
23 Mr. Graham, the "C" rating is in fire protection, but
24 there's another cost component that we call "Emergency
25 Management" which we've given a "B" rating.

1 And much of what's been discussed here is
2 under the "Emergency Management Area" which has been given
3 a "B" rating, and we've assessed -- done a verification of
4 that through the assessment of the emergency exercise that
5 they did in the Port Hope Fire Department to make sure
6 that was working. So that's a "B" rating.

7 The "C" rating is on fire protection which
8 is more in the manner in which they design and operate the
9 plant. And we still have given that a "C" rating because
10 it's not fully up to anticipated -- the requirements that
11 we have. They have put commitments in place, and we can
12 speak to those if you wish, and we're satisfied that they
13 will be able to meet those commitments because they have
14 demonstrated up to now that any commitments they make,
15 they can make.

16 So if you'd like us to comment further on
17 the fire protection and why it's not a "D" and why we
18 think that it's improving and why we think that it's
19 improving and why we think we can go forward with this
20 licence because of the commitments, we can add more if you
21 wish.

22 **MEMBER GRAHAM:** Yes, that would probably
23 be helpful. I'm sorry that I didn't tie in "B" and "C", I
24 guess I was lumping the whole fire protection and fire
25 hazards and all of the other into one, but I realize

1 there's two.

2 My first question is though, are you
3 satisfied, is CNSC now satisfied -- and you haven't given
4 it a "B" rating, but you are satisfied with the
5 improvements that have proceeded so far with regard to
6 fire suppression and so on and HAZMAT; are you
7 recommending anything further that needs to be done?

8 **MR. HOWDEN:** Barclay Howden speaking. I'm
9 going to ask Marty O'Brien, the Project Officer who is
10 more familiar with this.

11 **MR. O'BRIEN:** Marty O'Brien for the
12 record.

13 Yes, you'll notice in the fire protection
14 question, there is reference to the Fire Protection
15 Program elements which are impacted by this issue.

16 What we're seeing primarily outstanding
17 related to Fire emergency response in the fire program are
18 various documentation, operating procedures for the
19 industrial fire brigade for Cameco, underlying analysis,
20 fire hazard analysis which would be an enhancement to the
21 current analysis that exists.

22 There is, of course analysis within the
23 current Safety Report to form the basis of the response
24 that's been planned.

25 However, this can be advanced in terms of

1 fire -- a fire hazard analysis is a more advanced,
2 technical engineering analysis in the area of fire safety
3 which could possibly identify additional improvements that
4 are required in the current planned response.

5 **MEMBER GRAHAM:** Thank you. Does Cameco
6 wish to comment on anything further or will there be
7 anything brought forward on Day-2 with regard to the
8 expectations of CNSC Staff with regard to Fire Protection
9 and improvements you will have done with regard to the
10 document, especially what was outlined 5.7 on page 23.

11 **MR. STEANE:** Bob Steane for the record.

12 No, I don't think we have any further
13 comments at this point.

14 At Day-2 we can have more information.
15 From their presentation there were some of those
16 commitments there, some documents were going to be by the
17 middle of November, some were going to be done in October,
18 so there will be some further discussion update of
19 progress.

20 **THE CHAIRPERSON:** If appropriate. This is
21 really for the interveners, that if there is anything that
22 can be given for Day One -- you know, it's important that
23 any elaboration is based on new information.

24 I believe the Staff would like to comment,
25 Mr. Graham.

1 important, because I think Mr. Steane raised it in his
2 presentation, and I think Mr. Grandey raised it as well in
3 a broader sense, is that, you know, others think that
4 there is an evolution of standards, there is evolution of
5 the areas, but finding an appropriate risk-based approach
6 to ensure that it's clear what the standards are, but also
7 giving what is appropriate time for putting those in
8 place.

9 I don't know if Cameco has any comments
10 right now with regards to the statement by Mr. Howden on
11 the licence. I know you talked about it briefly in your
12 overview; are there any further comments you'd like to
13 make at this time, Commission members?

14 **MR. STEANE:** Bob Steane, for the record.

15 I think the comments that I made in my
16 presentation are Cameco's concerns and where we are to go,
17 I agree with what -- I think what I heard Mr. Howden say,
18 is that we would have some discussions and perhaps some
19 additional clarification at the Day-2 hearing, but it
20 isn't an area where we want to be not inadvertently put
21 into a position of non-compliance just because we've got a
22 new standard that's started.

23 And while Mr. Howden says we have been
24 working towards it, we -- there are still aspects that we
25 need clarification of what comes into effect and what

1 doesn't.

2 **THE CHAIRPERSON:** Before we start Round 2,
3 I have a question, and it's with regards to the
4 safeguards.

5 Both the Staff and Cameco have made
6 comments with regards to during the licence period in the
7 past. There were some changes in the safeguard regime
8 required.

9 This is an area that is perhaps not as well
10 known as others within the Commission licensing and I
11 think it's important for us to have some clarity on that.

12 Perhaps I could ask Staff because the
13 requirements came from the Staff's discussions with
14 international agencies, exactly what the safeguard regime
15 will be -- what they expect it to do at Port Hope and what
16 would be the inspection regime that would be put in place
17 and would be continuing for the licence period under
18 consideration, ie. the five-year request.

19 So CNSC Staff?

20 **MR. HOWDEN:** I'd like to ask Jim Casterton
21 who is the Director responsible for this area to respond
22 to your question.

23 **MR. CASTERTON:** Thank you, Mr. Howden.

24 My name is Jim Casterton, for the record,
25 I'm the Director of the International safeguards Division,

1 Director of Security and Safeguards.

2 Yes, indeed, Madame Chair, as noted in the
3 CMD for the most recent period there have been some
4 significant changes in international atomic energy agency
5 policy with respect to the requirements for the
6 implementation of safeguards at conversion facilities in
7 general, ie. around the world, not just in Canada.

8 To be brief, in 2003 the IAEA took an
9 internal decision to reinterpret what they call the
10 starting point of safeguards, that point at a particular
11 fuel cycle facility where safeguard measures come into
12 play.

13 The rationale for a change in this approach
14 was a concern that there were certain intermediate
15 products in the conversion progress which could be used
16 for fuel fabrication or for isotopic enrichment.

17 As a result of that, the safeguard measures
18 to be applied to conversion plants were changed
19 dramatically. In Cameco's Port Hope facility the
20 traditional approach to safeguards began with the
21 production of UO₂ and UF₆ as noted in Staff's comments.

22 As a result of the change in the policy
23 approach, the starting point in the safeguards moved
24 clearly or into the fuel cycle and yet realistically the
25 safeguard measures began with the receipt of the UO₃ feed

1 material from Blind River.

2 When we mentioned "subject to safeguards",
3 generally we're talking about three or four different
4 aspects. One is that the facility must maintain and
5 establish a record system. They must report on
6 inventories of materials subject to safeguards and any
7 inventory changes.

8 They must be available to accept IAEA
9 verification of the location, identity, quantity and
10 composition of the declared material. Furthermore, they
11 must be available for inspection to confirm design
12 information that has been provided by the facility. They
13 also must be available for complimentary accesses which
14 are really unannounced inspections that are called by the
15 Agency pursuant to commitments made by the Government of
16 Canada.

17 Madame Chair, over the next five year
18 period, if I can address that as well, we are currently in
19 the process of developing with the IAEA a state-levelled
20 approach for safeguards in Canada.

21 This is an approach that would be
22 compatible with new directions by the International Atomic
23 Energy Agency to move away from a facility specific
24 application of safeguards, to a more generic state-level
25 consideration.

1 And in that context we will -- the
2 application of safeguards at Cameco Port Hope, as with
3 other facilities, will be evolving.

4 I should say at the moment that Cameco does
5 meet all the requirements arising from the change in the
6 policy and so future requirements, future outstanding
7 issues or outstanding issues that we are working on are
8 really related to the elaboration of this state-levelled
9 approach as it would apply to Cameco. Thank you.

10 **THE CHAIRPERSON:** Perhaps you could give
11 us some sense in the other areas.

12 We have talked a little bit about the
13 inspection frequency or the inspections that would be
14 done. I think it's noted in the CMD, but perhaps you
15 could give us a sense of what is done by CNSC Staff with
16 regards to compliance, inspections and how that is
17 performed in the area of safeguards on this facility.

18 **MR. CASTERTON:** For the record, Jim
19 Casterton. Thank you, Madame Chair.

20 Under current procedures the International
21 Atomic Energy Agency performs one annual physical
22 inventory verification, and they also perform two, what
23 are called "interim inventory verifications." So the
24 facility is currently subject to three inspections that
25 are scheduled by the International Atomic Energy Agency.

1 CNSC Staff participate in each of these
2 inspections. We ensure that the IAEA has access and can
3 undertake activities that fulfill the objective of the
4 inspection. We also ensure that the facility has in place
5 the necessary procedures to accommodate such inspection
6 and the necessary equipment to support such inspection
7 activities.

8 In addition to this, over the last
9 reporting period the CNSC Staff have been working closely
10 with Cameco and Cameco Staff in developing the safeguards
11 approach and the safeguards program for Cameco Port Hope
12 as a result of the change in this policy.

13 On the basis of our participation in agency
14 inspections, and on the basis of our own judgments as to
15 Cameco's efforts to put in place the procedures necessary
16 to satisfy our requirements and the requirements of the
17 IAEA, we have provided the rating.

18 **THE CHAIRPERSON:** Thank you. Does Cameco
19 have any comments with regards to safeguards?

20 **MR. STEANE:** Bob Steane, for the record.

21 The application of the new safeguards at
22 the conversion facility has presented some significant
23 challenges. While in the pure sense of the flow of
24 products through the facility is a stream which is
25 tracked, but one of the real challenges with a site that

1 goes back 70 years and numbers of materials in storage and
2 inventory records in the past not at the level of today's
3 inventory accounting and materials, it has been a
4 considerable effort to develop and make the necessary
5 information such that we could make the inventory
6 declaration.

7 So it has been a very onerous and large
8 challenge that we think we can come to working closely
9 with Staff and have reached a very satisfactory conclusion
10 given all the challenges we faced.

11 **THE CHAIRPERSON:** Just a comment. I'll
12 assume that Cameco and the appropriate Staff of CNSC have
13 looked at this and will be looking at this with the Vision
14 2010 in terms of any changes within -- and security as
15 well.

16 My second question is much more specific;
17 it's with regard to the written submission by Cameco, page
18 ten of 38. This is in the 06-H18.1, and it's with regard
19 to the environmental monitoring results. It's just a very
20 specific question that I think would be worthwhile
21 elaborating on for Cameco.

22 And that's with regards to the ambient air
23 monitoring areas, you've made on the third item within the
24 ambient air monitoring -- so this is Item 4.0,
25 "Environmental Program", page 10 of 38.

1 You've made a comment with regard to
2 suspended particulate and the 2006 has both a "*", which
3 makes sense, it's six months -- the 1st and 2nd quarter,
4 but the second is with regard to the footnote No. 2.

5 And perhaps you could just elaborate on
6 that, because people may see it going up and wonder what's
7 happening here. So perhaps you could explain that more
8 further.

9 **MR. STEANE:** Bob Steane, for the record.
10 I'll call on Kirk Vetor, our Superintendent Compliance &
11 Licensing to answer that question.

12 **MR. VETOR:** Kirk Vetor, for the record.

13 We spoke earlier about five programs, or
14 five data gaps that were identified in the Ecological Risk
15 Assessment. One of them was that the high volume air
16 samplers are ambient air monitoring stations, one
17 necessarily located at the area of maximum point of
18 impingement of our emissions.

19 So one of the recommendations was to move
20 the station that was located at the former Canadian Tire
21 store to the area of maximum point of impingement which is
22 along our fence line, just on the south east corner of the
23 UF6 plant. And since we have moved that there, we are
24 seeing higher ambient air concentrations for suspended
25 uranium, and that's the reason why you're seeing these

1 numbers go up in 2005 and 2006 as an overall average.

2 But it's important to note that the
3 dispersion model that we're using is predicting a maximum
4 suspended air concentration for uranium of in the
5 neighborhood of 0.39 to 0.40 megagrams per cubic meter.
6 The highest single daily result we've observed at this
7 station is 0.17, so we're still less than half of what the
8 model is predicting at that location.

9 **THE CHAIRPERSON:** Any comments from CNSC
10 Staff on that matter?

11 **MR. HOWDEN:** Barclay Howden speaking. I'm
12 going to ask Marty O'Brien to comment.

13 **MR. O'BRIEN:** Yes, Marty O'Brien, for the
14 record.

15 CNSC Staff on inspections reviewed these
16 numbers with Cameco's Staff and we have discussed this
17 issue. And we were satisfied that the increased values
18 recorded here are not due to increased emissions, but due
19 to relocation of the sampler closer to the site, closer to
20 the source.

21 **THE CHAIRPERSON:** Could I ask then,
22 Cameco, is there a prediction -- do you have a prediction
23 with regards to this number if you were to look at it, say
24 on an annual basis and going forward for the five years of
25 the licence? Would you have a prediction or a model that

1 you're using as to how that would change or not change in
2 the next five years?

3 **MR. VETOR:** Kirk Vetor for the record.

4 We do have a new dispersion model. I would
5 not expect the numbers to change -- I should go back first
6 and clarify that in 2005 the station was only moved mid-
7 way through the year, part way through the year, so that
8 wasn't a full year. 2006 was the first full year of
9 monitoring data at that new location and I wouldn't expect
10 the number to change significantly over the next five
11 years unless we make changes within the facility that
12 reduces our emissions.

13 **THE CHAIRPERSON:** So would there be a
14 sense that we would have -- that we would continue to have
15 monitoring -- how can I put this? That the CNSC will
16 continue to monitor this, and if there was an unexpected
17 change, that this would be brought to the attention of
18 Staff?

19 **MR. HOWDEN:** Barclay Howden speaking.
20 Yes, that is the case and if there was something
21 significant between hearings we would bring it to you as
22 part of our significant development report.

23 **THE CHAIRPERSON:** Mr. Harvey, do you have
24 further questions?

25 **MEMBER HARVEY:** For the source emissions,

1 the uranium dioxide, you've got also there an increase
2 from 2002 to 2005 and possibly 2006. You've got 24.5 and
3 it was 11.8, so what's the reason for that?

4 **THE CHAIRPERSON:** Cameco first, please.

5 **MR. VETOR:** Kirk Vetor, for the record.

6 The increase here is primarily due to the
7 calculation of fugitive emissions over the period.

8 **THE CHAIRPERSON:** I think if you could
9 elaborate a little bit more and then we'll turn to Staff.
10 I just want to make it clear, just for the record, we're
11 talking about Table 4 still on page 10 of 38.

12 **MR. VETOR:** As a result of the dispersion
13 model that was conducted at the facility, we have new
14 information and new emission estimates for the fugitive
15 emissions of uranium from the facility and we are applying
16 those and that's why we've seen an increase in that data.

17 **THE CHAIRPERSON:** Would the Staff wish to
18 comment and perhaps we may come back, Mr. Harvey, to the
19 chemical again.

20 **MR. HOWDEN:** Barclay Howden speaking. I'm
21 going to ask Marty O'Brien to comment.

22 **MR. O'BRIEN:** Yes, Marty O'Brien, for the
23 record.

24 To clarify, there's two elements of the
25 emissions: one is the from the stack and the other is

1 from what we call a "fugitive emission", which is the HVAC
2 ducts that are ventilating the equipment, because these
3 processes take place inside buildings so they have a
4 heating ventilation which gives some -- the building will
5 get vented out through the HVAC ducts, so those are the
6 kind of things that are fugitive emissions.

7 There was a change in 2004 in how fugitive
8 emissions are calculated and that can be -- we're
9 satisfied that it's probably the reason it's increased the
10 numbers.

11 **MEMBER HARVEY:** Are you preoccupied by the
12 fact that you've got an increase like that?

13 **MR. O'BRIEN:** Marty O'Brien, for the
14 record.

15 We monitor these numbers on an ongoing
16 basis. We have -- the numbers are reported in quarterly
17 compliance reports. We go for routine inspections; we
18 monitor any adverse trends and review the licensee's
19 response to any increase such as this.

20 **MEMBER HARVEY:** Thank you.

21 **THE CHAIRPERSON:** Perhaps now we'll start
22 with Round 2. We could maybe start with Dr. Dosman and
23 we'll do a complete Round 2 again.

24 **MEMBER DOSMAN:** Thank you, Madame Chair.

25 **THE CHAIRPERSON:** I'm sorry, I think

1 Cameco would like to speak first; is it with regards to
2 Mr. Harvey's question? Yes, thank you.

3 **MR. STEANE:** Bob Steane, for the record.
4 Thank you, Madame Chair.

5 One aspect I think that hasn't come out, is
6 we have a monitoring program, we look at monitoring of
7 source. "Stack", as you've heard described, is on line
8 and it's close to real time as we can make it. We have
9 other programs around the fugitive emissions, and we're
10 continually trying to better that method of assessing and
11 estimating and knowing what the total emissions are.

12 Those are ones we make at the source,
13 they're the ones that are out in the field and the real
14 indication is what is happening, has there been a change
15 in the field? And if we look at our soil monitoring
16 results, particularly with respect to uranium and dust,
17 those numbers are decreasing and have decreased over the
18 licenced period.

19 So while we're changing our refining and
20 getting better in our means of estimating what the
21 emissions are, it doesn't mean that the emissions
22 themselves have gone up or estimates of what it is has
23 gone up. And our soil monitoring is telling us in fact
24 the opposite, that the numbers are going down.

25 **MEMBER HARVEY:** No, the essence of my

1 question is just -- what do you think about -- the numbers
2 are decreasing almost everywhere, but there's a place
3 where it's going up. So I just put a question mark and
4 say "I will follow that in the future in order to be
5 certain that it won't be going up and up and up ..." So
6 with new equipment you will find it's worse than you
7 thought. So that's just the essence of my question to
8 look at it in the future.

9 **MR. STEANE:** Bob Steane, for the record.

10 Yes, I agree with you completely, but it is
11 something we are looking at and incorporating it and our
12 intent through our whole programs, our numbers ought to be
13 going down and not to be going up, and that is our focus.

14 **MEMBER HARVEY:** Thank you.

15 **THE CHAIRPERSON:** Yes, I think that's
16 particularly appropriate when you're really dealing with
17 an audience of interested people around and clearly I
18 think we have to all do the necessary job to try to
19 explain what is, in essence, some very difficult
20 scientific matters into a voice that people will
21 understand. So I appreciate that difficulty. Thank you
22 for that.

23 May I turn now to Dr. Dosman?

24 **MEMBER DOSMAN:** Thank you, Madame Chair.

25 I would like to refer to Staff CMD-06-H18,

1 page 13, Table 6. And, specifically, on Table 6 of page
2 13 I would like to note that the nitrates emissions, while
3 being very stable over a four-year period, are suddenly in
4 the first six months of 2006, increased by about 50 per
5 cent.

6 Now they certainly are within the licenced
7 limit. And granted, that this is a six month period of
8 observation, I just wonder whether we might have comments
9 from Cameco as to why they think the nitrate emissions
10 have increased during this period. And then I would
11 appreciate if Staff might also comment.

12 **MR. STEANE:** Excuse me, Bob Steane, for
13 the record.

14 Was your initial request to Staff or to
15 Cameco?

16 **MEMBER DOSMAN:** Madame Chair, my request
17 was to Cameco. And then I would appreciate, however, if
18 Staff might also comment.

19 **MR. VETOR:** Kirk Vetor, for the record.

20 In this case both of the North MISA and the
21 South MISA -- at the south MISA the discharge is
22 exclusively cooling water; at the North MISA location it's
23 predominately cooling water, approximately 95 per cent
24 cooling water. So this would be a reflection of the
25 cooling water that we've brought into the facility.

1 And typically in the spring -- like this
2 would average over the year -- in the spring when we have
3 fertilizing going on on the agriculture fields, we get
4 run-off coming down the Ganaraska River. It's not
5 uncommon to see a spike in agricultural type nutrients and
6 this should balance out by the end of the year.

7 **MEMBER DOSMAN:** Madame Chair, may I ask why
8 should it be increased this year versus the previous four
9 or five years?

10 **MR. VETOR:** The 2006 data is just for the
11 first half of the year, so we don't have the second half
12 in here.

13 In the second half we'll see lower metric
14 numbers, so the overall average for the year will come
15 down. By the end of the year I expect this number to be
16 similar to the metrics you're seeing in the 2002 to 2005
17 data.

18 **MEMBER DOSMAN:** Thank you for that
19 explanation.

20 **MR. HOWDEN:** Thank you, Barclay Howden
21 speaking. I'll ask Marty O'Brien to speak.

22 **MR. O'BRIEN:** Marty O'Brien, for the
23 record.

24 Yes, this trend has happened previously;
25 it's been noted in past historic data that in the spring

1 sometimes the numbers do go up, and it's been primarily
2 attributed to causes that Mr. Vetor referred to:
3 increased fertilization and things like this.

4 **MEMBER DOSMAN:** Thank you. I wonder if
5 there's anyone from the Ontario Ministry of Environment
6 here, whether they might be interested in commenting,
7 Madame Chair.

8 **MR. HOWDEN:** Madame President, there is
9 someone here from the Ministry of the Environment, but
10 they're here for soil, not for the water, so I think
11 they're not able to comment at this time.

12 **MEMBER DOSMAN:** Thank you, I accept the
13 explanations.

14 **THE CHAIRPERSON:** Well, now we'll go to
15 Dr. McDill, please.

16 **MEMBER MCDILL:** Thank you, several quick
17 questions, fairly specific.

18 In Cameco's slide on page eleven they show
19 a new concrete wall at the fence line to reduce gamma.

20 In terms of occupational safety, that wall
21 appears to be about 3 meters high; is it a single brick
22 in-depth and is there any risk stacking the barrels like
23 that against a wall of that height?

24 **MR. VETOR:** Kirk Vetor, for the record.

25 I haven't looked at this from an

1 occupational safety perspective, but I know that it was
2 engineered by our Engineering Department. There was a
3 full project so they would have taken that into account
4 when they built the wall. I know that we did construct a
5 special footing for that wall to support the wall to make
6 sure that it could take the load and make sure that it was
7 stable and there was no shifting taking place.

8 **MEMBER MCDILL:** Yes. Thank you, it just
9 struck me that a nice little earthquake would give me
10 concern, but perhaps Staff would like to comment.

11 **MR. HOWDEN:** Mr. O'Brien will make a
12 short comment on this.

13 **MR. O'BRIEN:** Marty O'Brien, for the
14 record.

15 We examined that wall as part of our
16 routine inspections and haven't identified any concerns
17 with occupational health and safety risks.

18 **MEMBER MCDILL:** Thank you. A second
19 question. It's a follow-up to Mr. Graham's questions on
20 the fire protection.

21 If the switch to 801 is going to add much
22 -- I realize this is maybe a bit premature, but there are
23 10 per cent of items left over from 2000, 20 per cent of
24 items left over from 2004 and 30 per cent of items left
25 over from 2005. Is the switch to NFPA-801 going to reduce

1 that number or increase the number of things that are
2 outstanding? And I guess I should ask both Cameco and
3 Staff to answer the question, please.

4 **THE CHAIRPERSON:** Start with Cameco,
5 please.

6 **MR. STEANE:** I'm sorry, Bob Steane.

7 I believe the point that we have raised, we
8 don't need to go through it, but as you apply NFPA-801
9 there will be items that will frankly be added to that
10 list.

11 **MEMBER MCDILL:** Will any go away or is it
12 too premature to know? But I mean things left over from
13 2000 strike me as being a concern unless they're minute
14 documentation issues.

15 **MR. STEANE:** I think what I'll do, is call
16 on our Fire Engineering Specialist, Ivan Bollinger, to
17 give a more -- a better summary.

18 **MR. IVAN BOLLINGER:** Ivan Bollinger, for
19 the record.

20 In respect to the 2000 audit the items
21 outstanding from that, a valid question has been -- all
22 these items have -- there's an overview of that.

23 The 2000 audit raised a number of questions
24 that were rated as compliant and mandatory and good
25 engineering design items. All the mandatory items have

1 been ticked off and have been completed.

2 The remaining 20 odd items are actively
3 being addressed. Of those, we expect approximately 16 to
4 be completed within the next month or so. The remainder
5 of them, for example, the sprinkler installation is
6 actively being addressed as well.

7 The extent of that has been expanded and
8 that is one reason why we're looking at it. Originally
9 that was just looking at the installation of sprinklers on
10 the ground.

11 Cameco has voluntarily decided to install
12 sprinklers throughout the building, therefore the extent
13 of that has expanded obviously to install those. There's
14 a lot of pre-planning and everything involved in that. We
15 expect the project to be completed within the first half
16 of 2007 and all the other items to be finished in the
17 first half of 2007 as well.

18 **MR. HOWDEN:** Barclay Howden speaking. Mr.
19 Rabski is going to comment on this issue.

20 **MR. RABSKI:** Henry Rabski, for the record.

21 As pointed out in the CMD there have been
22 three audits conducted at the facility. There were -- in
23 each case there were a number of recommendations and
24 improvements that were identified.

25 Cameco identified an implementation plan in

1 each case, obviously staging some of the work and trying
2 to be effective and efficient in implementing the highest
3 priority issues that were identified in each case.

4 Staff has been satisfied in each case with
5 the plan that has been presented in terms of
6 implementation and agreed to a staged approach, and we're
7 satisfied with the progress that's being made addressing
8 these items as we continue assessing the program.

9 We also wanted to point out that as part of
10 our working towards the NFPA-801 standard, some of the 801
11 initial requirements were also included in these
12 inspections and that's progressed towards reducing the
13 level of risk of fire in the facility. And we're
14 satisfied with the progress that's being made on
15 implementing the recommendations and the progress on
16 outstanding items.

17 **MEMBER MCDILL:** Is this list available to
18 the members of the community so they have some idea of the
19 status of these items and issues? Maybe Staff could try
20 and then Cameco.

21 **THE CHAIRPERSON:** I would actually suggest
22 the reverse. This is Cameco's issue; Cameco?

23 **MR. STEANE:** The lists of all the items
24 have been assembled and we have reported regularly to CNSC
25 so those reports can be made available to others. They

1 are quite involved with a detailed list.

2 **MEMBER McDILL:** I can believe that they're
3 quite involved. Frequently there's sort of an action
4 list, you know, what's opened and what's closed, and so I
5 was wondering perhaps if Staff would be able to answer
6 that.

7 **MR. RABSKI:** Henry Rabski, for the record.
8 At the end of each one of those audits there would have
9 been an actual list generated and we track that list.
10 It's either in a written form or a table form that we are
11 tracking and obviously updating the Commission as Cameco
12 and Staff have. What still remains outstanding is the
13 dates of when we anticipate those to be completed.

14 **THE CHAIRPERSON:** If I could follow-up
15 just on two items Dr. McDill has raised. And I want
16 someone to tell if I'm mis-interpreting this. It is, I
17 think -- there wasn't necessarily a concern about the wall
18 as much as there was concern about the way that those
19 barrels were stacked. However, I just wonder if -- this
20 would obviously be something your Occupational, Health &
21 Safety Group would look at at Cameco, so I think that if
22 there is an issue, I don't think we need to have a long
23 list for Day-2 of everything, but I think what would be
24 important is, if this hadn't been looked at by
25 Occupational, Health in Cameco, we would just like to know

1 that. You know, if that is an issue, we'd like to know
2 that.

3 I think with the second matter, I think
4 what the gist is, if we -- Cameco has talked about a
5 vigorous community communications approach, which is also
6 documented in your CMD and which is discussed as well in a
7 special CMD on this matter.

8 There's a number of issues that seem to be
9 of concern to the public and it's interesting that perhaps
10 communications around this -- not the details of every
11 report or whatever, but communications of the progress of
12 the fire protection program is -- would be a helpful area
13 for Cameco to communicate with the community to say that,
14 especially when there could be some misunderstanding about
15 the fact that things are changing, so understanding this
16 it could -- it is an area where -- because it involves
17 City Fire as well -- fire protection, that it would be an
18 area.

19 So I think that Cameco is suggesting that
20 we ask members of the community to have to, you know, use
21 the Access to Information or whatever, but that perhaps
22 you used in their community work nonetheless, but that
23 this may be an area where some probes of communication
24 would be suitable. I don't know, Dr. McDill, if that is
25 really it.

1 **MEMBER McDILL:** Thank you.

2 In the past there have been questions about
3 fire protection. If there is access to that on a website,
4 it's much easier for your community to see it; so my
5 question was, is there a list and is it available?

6 **MR. STEANE:** Bob Steane, for the record.

7 First picking up on Ms. Keen's comment
8 there. We have the community forum process that we have
9 started, and this is the type of information, and those
10 are the types of things we would bring to those forums.

11 The way that forum process has been
12 working, when we first started it off we met with all
13 those who were at the community forums and we asked them
14 to tell us what is it that they think was the most
15 important topics to deal with, and we have been focussing
16 and going forward, starting with what the community is
17 telling us the areas they need the information and we're
18 working down that list.

19 There is an area in the listing but it
20 wasn't in the top so we haven't got the formal process.
21 But that's really where we hope to take the formal
22 process, is to bring these types of interchanges and
23 information on our operation to the community so they're
24 aware of what it is we're doing and where we are with what
25 we're doing.

1 **THE CHAIRPERSON:** Any further questions?
2 Dr. Paquet?

3 **MEMBER PAQUET:** Madame Chair, I would like
4 to go back to the safety and health paragraphs on page 4
5 of 38.

6 If we look at the safety statistics for
7 2006 I imagine that's for six months. All the numbers in
8 the last column have increased, so in the preceding
9 paragraph it's mentioned:

10 "Comeco is in the process of
11 establishing common leading
12 performance indicators to supplement
13 the traditional lagging, injury-based
14 statistics."

15 Could we have more information about these
16 new performance indicators that are going to be developed?

17 **THE CHAIRPERSON:** I believe that's Comeco,
18 so let's give it to Comeco.

19 **MEMBER PAQUET:** Yes.

20 **MR. CARISSE:** For the record, it's Hess
21 Carisse, Manager of Technical Services.

22 In giving some leading indicators as far as
23 health and safety is concerned, we have set some targets,
24 and just for an example, one of the targets that we've set
25 is attendance of employees at safety meetings, so we are

1 tracking the overall attendance at safety meetings at our
2 facility, and that's a positive leading indicator so that
3 our employees are getting the information from safety
4 meetings.

5 There are other ones that we could go into
6 detail at this point in time, I'm just trying to think of
7 a few.

8 Yes, we've got in here some near miss
9 reportings just recently. Again, it's a leading indicator
10 -- "near misses" is an area that builds on the safety
11 triangle and we're going through some efforts to ensure
12 that our employees are reporting "near misses" as well as
13 to gather some information. Again it's a leading
14 indicator of a safety statistic.

15 **MEMBER PAQUET:** On the public opinion
16 survey, page three, there's a question asked about the
17 support to the conversion facility, and it's mentioned
18 that 83 per cent of the people surveyed mentioned that
19 their support is about the same.

20 I'd like to know what are the next steps
21 that could be taken to move this 83 per cent to a higher
22 number?

23 **MR. STEANE:** Bob Steane, for the record.
24 I'm sorry, where is this 83 per cent ---

25 **MEMBER PAQUET:** Page 3 of the Public

1 Opinion Survey.

2 **MR. STEANE:** Page 3 of the Public Opinion
3 Survey?

4 **MEMBER PAQUET:** Yes.

5 **MR. STEANE:** Oh, I was on page 3 of our
6 CMD, I apologize.

7 First I think we should preface it, 83 per
8 cent public support in the community for a company is
9 very, very high to start with and this has -- I think in
10 our graphs we have shown that this support has come from
11 in high high 60s, 66 to into the 80s. So having said
12 that, the support is very high. We are in the process of
13 increasing that support and that's through our community
14 forum process, through the communication process, through
15 our whole changed view to how we interact with the
16 community, so that's all there to sustain and grow that
17 support number.

18 **MEMBER PAQUET:** So we might expect that
19 the next survey this number will be higher?

20 **THE CHAIRPERSON:** I guess -- the support
21 could be the same meaning people haven't changed their
22 support pro or con.

23 Mr. Steane, I'm not sure about the
24 interpretation of the question, and I think that's what
25 Dr. Paquet is saying is -- the support level hasn't

1 changed. I guess it would have to be interpreted with the
2 rest of the data to understand what that means; is that
3 right?

4 **MR. STEANE:** Bob Steane, for the record.

5 I think that is correct because -- actually
6 if one looks at the whole report there has been a change
7 in the number of people who are in the "strongly support"
8 category has gone over 50 -- it's about 53 per cent. So
9 there has been a change from "support" to "strongly
10 support." So taking this one graph in isolation I think
11 may be giving some -- may be interpreted in the context of
12 the whole survey, and I think we have seen increasing
13 support and increasing depth and strength of support.

14 **THE CHAIRPERSON:** Dr. Barnes?

15 **MEMBER BARNES:** I would like to return to
16 the barrels.

17 I would like some kind of clarification
18 from perhaps Staff or Cameco that that wall -- which
19 appears to me to be a single thickness of brick, and at
20 the bottom of it we do see at least two levels of brick
21 per barrel so there must be at least seven -- those bricks
22 must be concrete stacked seven high. It appears to be up
23 against a corrugated wall, I'm not quite sure -- and then
24 we have barrels that there's some concern about there for
25 liability let's say in the case of an earthquake, but why

1 would I believe that there is -- that that wall has any
2 significant strength if there was a moderate earthquake
3 with a magnitude of five or six which can occur in this
4 region that in effect wouldn't in toppling -- would assist
5 in the toppling of the barrels. Is that not a concern?

6 **MR. STEANE:** Bob Steane, for the record.
7 I think, Dr. Barnes, that wall and perhaps the picture is
8 not -- you don't get a three dimensional view of it.
9 Those concrete blocks are in fact quite deep, they're
10 quite large concrete blocks, but I think earlier it was
11 mentioned that that wall was not just put up; we have a
12 civil engineer, it was an engineering project; there were
13 footings poured and put in place; the wall was engineered
14 to engineering standards for a structure of such nature.
15 So I think through the project control processes that we
16 have in place, the wall has been engineered appropriately
17 and properly and is a substantive structure.

18 **MEMBER BARNES:** So the individual blocks
19 making up that wall are somehow connected together; are
20 they, by bolts or concrete or are they simply stacked one
21 on top of each other, which appears to be what it is?

22 **MR. STEANE:** Bob Steane, for the record.
23 Those blocks are a tongue and groove
24 arrangement so that the block then fits into the block
25 above it, it's not just standing one on top of the other

1 on a flat surface.

2 **MEMBER BARNES:** Maybe I should perhaps cut
3 to the chase; if I could just make a couple of
4 observations and then some -- maybe some specific
5 comments.

6 It seems to me that one of the frustrating
7 aspects of reading documents like this somewhat is that
8 we're given a little bit of information but not enough to
9 completely give us assurance. And in many cases the
10 suggestion that more information has been given to CNSC
11 Staff through the summer or by the end September, but
12 we're not given perhaps assurance that we will see the
13 review of these documents by Day-2.

14 I give you, for example, with the soil
15 monitoring, there's a report in to Staff by late September
16 available, so my question is, is it going to be available
17 on Day-2?

18 We've heard earlier about the harbour wall
19 was a Staff response. I think that was given to Staff on
20 September 1st. The decommissioning plan was given in June
21 and will we have more information at Day-2? The hydraulic
22 assessment, the floodplain mapping you've give the Staff
23 to review possibly by Day-2.

24 So I would be happy perhaps if Staff could
25 give us some indication as to what additional information

1 on these reviews of documents that have come into you in
2 the last say -- well, since June -- June, August,
3 September type of period; are you going to have enough
4 time to give us some information and give us your response
5 back to these documents that we don't see, but we're told
6 have been submitted to you? Those are just some examples,
7 and there are quite a few.

8 **MR. HOWDEN:** Barclay Howden, speaking for
9 the record.

10 From the process of accepting an
11 application, we get all the application documents and we
12 go through them. And part of our ongoing compliance
13 program we get additional info which goes on and on.

14 Our intention, and Mr. O'Brien has just
15 informed me that all of the commitments that Cameco has
16 made for submitting additional information have been met
17 so those documents are in.

18 So when we do get to Day-2 we will be in a
19 position to provide you with either completed reviews, or
20 at least a position on how it is going through.

21 For example, the soil monitoring is a long
22 term program so I would expect that we would give you what
23 we can on Day-2, and if you issue the licence, then you'd
24 get updates.

25 On other things that we feel that are part

1 of the application and need to be assessed and presented
2 to you such that you can make a decision, our intention is
3 to make sure that information is to you. But right now
4 everything that was promised to be presented to us so that
5 we can do an assessment to present that to you, Cameco has
6 met those commitments.

7 **MEMBER BARNES:** Let me a little bit more
8 specific. And that refers to pages 12, 13 and 14 probably
9 of the Cameco document, and this is 4.1 "Ecological Risk
10 Assessment and Environmental Effects Monitoring".

11 So there was a report submitted in October
12 of 2004 -- and this is the middle paragraph of 4.1:

13 "However, the ERA/EEM study
14 recommended that five special studies
15 (referred to as 'programs' in the
16 report) should be performed to fill
17 data gaps found during the risk
18 assessment exercise."

19 Okay?

20 And we see in these programs (a), (b), (c),
21 (d) and (e) reported on pages 12, 13 and 14. Let me give
22 you an example -- a couple of examples, and it might be
23 worthwhile starting with a point Mr. Harvey was making
24 with program (d), where it's been recognized that it would
25 helpful to move the monitoring station to where the

1 maximum point of impingement was actually hitting the
2 ground.

3 And to go back to that data that we just
4 discussed a little while ago, on Table 4 on page 10 of 38,
5 that's the ambient air monitoring where previously it was
6 .004, .004, .004, .002, and you indicated that in '05 it
7 was .005 -- I think it was Cameco who indicated that that
8 was the year in which the monitoring device was moved, and
9 here we are in '06 and it's at .010 halfway through, so I
10 presume it's going to go to .02. It's just an order of
11 magnitude greater than the data being recorded in the
12 previous years when it was at the Canadian Tire.

13 Am I right in thinking that we have a
14 situation here when we found it useful to move the devices
15 to the point of impingement but that the value might be as
16 much as an order of magnitude greater than what was
17 previously being recorded at the Canadian Tire; am I right
18 in thinking that or do I have something wrong there? I
19 think Cameco would wish to respond.

20 **MR. VETOR:** Kirk Vetor, for the record.

21 The value we're reporting here in Table 4
22 under the "suspended particulate", under the "ambient air
23 monitoring" row, that's actually a concentration, that's a
24 measured concentration in the air, it's not an cumulative
25 ambient so it won't change and that is reflective of the

1 concentration of suspended uranium in the air as a result
2 of measurements we've taken through the first half of the
3 year. And I see no reason for that to change over the
4 second half of the year.

5 **MEMBER BARNES:** So are you actually
6 recording particular fallout at that location as opposed
7 to concentration in the air?

8 **MR. VETOR:** Kirk Vetor, for the record.

9 We also have the duct small jars there that
10 measure a particular fallout and we're going to be ---

11 **MEMBER BARNES:** You have that in the line
12 above; agreed?

13 **MR. VETOR:** That's correct.

14 **MEMBER BARNES:** And that presumably is an
15 average of a number of sites; is it?

16 **MR. VETOR:** That's correct, yes.

17 **MEMBER BARNES:** So, again, it comes back to
18 the point Mr. Harvey was making, and what I find is
19 somewhat frustrating in the documents earlier, is how we
20 differentiate between the averages because we don't have
21 that information. I'm sure you and Staff do on the
22 distribution of the sample locations and whether the peaks
23 of precipitation, for example, are widespread, you know,
24 how wide is the point of impingement, et cetera.

25 And this is important when I think we're

1 ongoing operations are impacting these
2 benthic communities."

3 And then the conclusion -- so we're not
4 given very much information on the nature of that study,
5 but the conclusion, the last sentence is:

6 "Program B concluded that 'despite
7 high metal levels in the Port Hope
8 Harbour sediment, the benthic
9 invertebrate population in Port Hope
10 Harbour is not experiencing negative
11 effects from the conditions in the
12 turning basin in the west slip."

13 How do we know that? My guess is the
14 benthic invertebrate population is there because it can
15 live within those particular environments, right, within
16 those particular metal loadings. It doesn't tell us what
17 the -- we've been given nothing about the actual
18 community, no information, and we're not told whether that
19 community is pinged or what type. We've been give the
20 impression that everything is fine because some benthic
21 invertebrates do live there. But would that community be
22 the same if there were no metal loadings there; would it
23 be a different benthic community or is it simply the
24 benthic community can tolerate those levels of metal
25 loading, and yet the impression is that we don't need to

1 worry about it because they're not experiencing negative
2 effects.

3 The information we have in here is
4 insufficient for me to really feel comfortable that that's
5 an appropriate interpretation. There are four of these
6 things where it seems to me that -- and I realize that
7 these documents shouldn't be encyclopaedic, but this was
8 an area, the whole environmental monitoring where new
9 information, new activities were to be brought forward.
10 And they have been brought forward in a rather brief way
11 by Cameco. Almost every one of these concludes with the
12 fact that they've given a report to -- in the last month
13 or two to the Commission Staff and I'm not quite sure if
14 we're going to find a review of that in time for Day-2.

15 **THE CHAIRPERSON:** Would Cameco like to
16 start and then we'll turn to Staff.

17 **MR. STEANE:** There are a number of points
18 there that -- I can't speak to the review of the Staff or
19 do those reports -- sorry, Bob Steane, for the record.

20 Going back to -- starting with the soil
21 study you talked about. While the previous study that had
22 been undertaken was on the specific soil plots was
23 discontinued, in that report that was finally issued by
24 the Ministry of Environment on that study, part of the
25 information in there as well though was that they had

1 throughout that program sampled the soil adjacent to those
2 soil plots and saw no change of increase, and they also
3 sampled 16 -- I think it was 16 different studies
4 throughout -- in Port Hope of areas that had been sampled
5 in the mid-80s, and again they sampled them in 2001 or 2
6 and those were areas that had been not disturbed and they
7 found no change in the increase of uranium in there. So I
8 think that we're a little -- we'd want some information on
9 the accumulation of uranium in the soil. We haven't gone
10 forward with developing a replacement study for those --
11 for testing this soil and getting information. It is
12 certainly an area of interest.

13 This sampling study that is now there is a
14 Cameco initiative, it's not a joint initiative, those
15 various locations have been -- and the program has been
16 put together by Cameco so that's going forward now.

17 Mr. Vektor can talk about the selection of
18 those sites relative to the impingement, but prior to
19 turning it over to Mr. Vektor, the other one is with the
20 benthic invertebrates in the Harbour.

21 The Harbour has been a site of historical
22 contamination going back to the 30s, and I think the
23 question is, is the current benthic population being
24 impacted by the current operation? So I think that's what
25 this work is showing, that they're not being impacted to

1 go back that far -- I suppose the benthic community that
2 lives there is one that lives in that environment, so
3 there isn't, I believe, information going back to when the
4 environment was created, which was some time ago.

5 There is a much more involved report on
6 that that says that it was done by the Port Hope Area
7 Initiative, they did quite a comprehensive study and I
8 guess we could pursue looking into the more detailed
9 information in that, but I think the conclusion of --
10 we've reported the conclusion of that study and really
11 from us it's in the context that our own little operation
12 is not continuing or contributing to negatively impact on
13 that benthic community.

14 But I'll ask Mr. Vektor to talk to the
15 selection of these new soil sampling locations.

16 **MR. VETOR:** Kirk Vektor, for the record.

17 When we set out to determine the locations
18 for this long term soil monitoring program there were a
19 number of criteria we wanted to meet. The first one, of
20 course, was that there will be some longevity to these
21 sites, that they wouldn't become subdivisions or golf
22 courses or what have you.

23 The second consideration was that the
24 majority of the locations be within 500 meters of the
25 facility as that's the area that's immediately impacted by

1 our discharges as is predicted by the dispersion modelling
2 and all of the information that the Ministry of
3 Environment has presented on this topic up to this date,
4 supports that the impacts that we're seeing from the
5 current operation are within that 500 meter zone. I don't
6 have the exact number, but I think it's about eleven or 12
7 or 13 of those stations out of the 25 are in that zone.

8 We then went to a 1,000 meter radius and
9 then to a 1,500 meter with fewer in each of those. So,
10 yes, to answer the question, most of the stations are
11 located in the immediate vicinity of the facility. The
12 results -- this is a baseline year. We can draw some
13 conclusions but they're going to be fairly rudimentary.

14 Basically there were no surprises; the results were
15 seen -- the highest single result we got from the first
16 round of samples was 59 parts per million that was located
17 in the area of the former waterworks, and we know that
18 there's been contaminated soil placed there.

19 And beyond that, as soon as you move out
20 into that 500 to 1,000 meter range, the numbers drop off
21 rather quickly, and we're looking at maximums in the range
22 of 1.7, 1.1, 2.4 parts per million which is pretty close
23 to the Ontario typical range for uranium in soil.

24 I certainly understand your concern with
25 the amount of data and the level of detail that's provided

1 in our CMD. It's always a challenge to determine what
2 level to put in there, but we can certainly make an effort
3 in the future to elaborate on the specific programs and
4 provide drawings and figures as has been suggested earlier
5 in these documents. And we can certainly make additional
6 information available through a supplemental report prior
7 to the Day-2 hearing.

8 **MEMBER BARNES:** I guess I'm trying -- and
9 is it not perhaps inappropriate enough to find out, but
10 since we're going to have Day-2 in Port Hope and there's a
11 significant public interest, if not concern, on the part
12 of some people on some of these issues that we're talking
13 about today. And I would add that Cameco clearly has made
14 a major effort in the area of public information for each
15 of us. In terms of the volume of paper, that's the bulk
16 of what we have today deals with your public information
17 activities.

18 I'm simply saying that if someone wanted to
19 understand what you were doing, you would need to explain
20 what the nature of the announcement was, how you went
21 about it, the methodology in sufficient detail in order
22 that the results, if you were reporting results, that some
23 people could be confident that that was a fair
24 interpretation. But I would argue in the case of this,
25 because this was a new program, that there's so little

1 information here that we're only obliged to take
2 confidence in the summary that you give.

3 And the summary is largely that you've
4 written a report and you've given it to Staff and
5 everything is fine. But there's very little detail in
6 there to give me confidence or knowledge that that in fact
7 is the interpretation.

8 **THE CHAIRPERSON:** Would Staff like to
9 comment?

10 **MR. HOWDEN:** Yes, thank you, Barclay
11 Howden speaking.

12 From our perspective, yes, we've been
13 working very diligent on the ERA, the identified gaps and
14 Camecos' response to the gaps, but we do understand the
15 Commission would like to see more evidence to make
16 decisions to have confidence. And with that I'm going to
17 pass the microphone to Dr. Thompson to speak to that a
18 little further.

19 **MS. THOMPSON:** For the record, my name is
20 Patsy Thompson. I'm the Director of the Environmental
21 Assessment and Protection Division.

22 Essentially a lot of the information that
23 has been presented in both Cameco's CMD and the Staff's
24 CMD is the outcome of a combination of requirements that
25 came into force with the Act.

1 Staff requested that Cameco conduct an
2 ecological risk assessment when the new Act came into
3 place, because the focus previously had been on releases
4 of uranium and doses to members of the public.

5 At the same time there were many questions
6 being asked about the potential accumulation over the long
7 term of uranium in soils in Port Hope, in the vicinity of
8 the facility and what impact that might have over the long
9 term on both people using the area, as well as non-human
10 species.

11 Staff also conducted a number of
12 assessments and compliance verification activities that
13 led to questions about the appropriateness of some of the
14 monitoring that was being conducted in terms of where,
15 when and in what frequency and the Ecological Risk
16 Assessment identified also some gaps and deficiencies.

17 Staff conducted detailed reviews of those
18 documents and prioritized essentially actions that Cameco
19 had to put in place. The issues related to harbour
20 sediment and benthic invertebrates were considered a low
21 priority because it was recognized that releases --
22 contaminates in liquid releases, discharges from the
23 facility are extremely low and it was unlikely that they
24 had contributed significantly to harbour contamination.
25 It was more likely to be from historical practices.

1 The other consideration that Staff took
2 was, the fact that with the Port Hope area initiative the
3 harbour is targeted for clean-up and remediation and so
4 spending a lot of effort and detailed characterization of
5 sediment and benthic invertebrate was seen as to be not
6 very -- an area where we would get a lot of benefit in
7 terms of the future operations at the site because of the
8 -- it started for remediation, essentially removing
9 contaminate sediments to be moved off site.

10 From the lines of questions, Dr. Barnes,
11 and your comments, what Staff will do for Day-2, and early
12 enough for interveners and people in Port Hope to have
13 access to the information before the hearing, is to
14 provide that context and Staff's assessment of what has
15 been done in Port Hope and what it might mean for people
16 now and in the future if the Cameco facility continues to
17 operate.

18 **THE CHAIRPERSON:** I think perhaps just a
19 general comment may be appropriate, is that back to Dr.
20 Barnes' comment about compliance, reports, et cetera and
21 Mr. Howden's answer, it may be appropriate to, in general
22 on these types of licensing actions, is to give a sense of
23 not only the risk in the broader sense of the risk and if
24 there are expected analysis to be done or not and at a
25 certain time period, and even at that I would submit it

1 would be done in the oral presentation at the time to say
2 "As of this day we're aware that we will be finished" or
3 "We have finished" or whatever, whether you've done the
4 analysis or not.

5 It may be just helpful, rather than leaving
6 it hanging in the air as to that. I think the Commission
7 realizes that the Staff specialists have a great many
8 areas to look at, and you have to make decisions as to the
9 relative risk and priority of these analysis. So I think
10 it's communication that would be helpful to that, and
11 that, again, as you mentioned, Mr. Howden, that the report
12 would -- I think it's in the various areas, but let's say
13 that the licensee as complied with the requirements, be
14 whether we're licensing or not, I think, is an issue that
15 you would, I think, have ongoing requests for reports and
16 whatever. I think that's important to give a sense to all
17 that that's been happening or whatever.

18 I think in terms of the focus under these
19 areas, that is the advantage of Day-1, is we have an
20 opportunity to ask as well about certain reports in
21 certain areas and that analysis of the questions from Dr.
22 Barnes and responses should give an opportunity for
23 perhaps for some summary looks at some of these areas for
24 Day-2. And, particularly, understanding the ongoing
25 historical nature of the area as well as specifics.

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Dr. Barnes?

MEMBER BARNES: I think this is an example, since we're going to Port Hope, and having been there before on previous occasions, and the issue of soil monitoring, people essentially, in the past anyway, have wished to address that issue. And we certainly in the past have seen diagrams and maps showing locations.

So I'm just going to read a couple of things from the Staff presentation on the issue of soil monitoring, and that's on page -- at the bottom of page 14 and 15 of the Staff's CMD.

And it says:

"In 2005, Cameco also initiated an ongoing soil sampling program to replace the former soil plot program conducted in conjunction with the Ontario Ministry of the Environment. The program involves taking periodic soil samples from various locations in close proximity to the facility. Sampling activities have commenced but results have yet to be reported to CNSC Staff."

So this started in 2005 and here we are late in 2006. And the results, according to the Staff CMD

1 have not been reported.

2 And it goes on at the top of page 15:

3 "Also, the Ontario Ministry of
4 Environment has redesigned its long-
5 term soil monitoring program in Port
6 Hope due to the problems encountered
7 during the previous 1996-2002 study on
8 accumulation of uranium in soil ..."

9 Et cetera.

10 "The redesigned program is to resume
11 soil test activities on the locations
12 that have been remediated with clean
13 soil to avoid interference with
14 historic ... Staff will continue."

15 So I would just ask the question of Staff;
16 is there information, at least in this document, which
17 will be -- along with our transcript, that would be
18 reviewed by possible interveners or members of the public
19 in Port Hope that have a concern about soil sampling; have
20 they been given enough information to understand what
21 these redesigned programs are all about? It tells me that
22 there is that level of information available or -- there's
23 probably a reference to it.

24 So it's a concern for me whether there is a
25 basis for sensible communication discussion on this topic

1 as opposed to having questions of concern on Day-2 and
2 then suddenly scrambling to try and provide appropriate
3 information during a meeting like that.

4 So I think that's a question to Staff: is
5 there enough information -- do you feel there's enough
6 information with these new initiatives for people to have
7 confidence that the results that are coming in, are going
8 to be reported and the sampling design is sufficient to,
9 again, respond to what have been long term concerns?

10 **THE CHAIRPERSON:** I would just add though,
11 for information we do have 4.1.5 of page 14 of 38 of
12 Cameco, which doesn't necessarily give information about
13 timing, but it's 14 of 38, 4.1.5, "Special Soil Study" and
14 it talks about timing as well on that specific issue.

15 So, perhaps, Dr. Barnes, your question is
16 suitable for Cameco as well because it's Cameco's
17 responsibility to report on soil, and then it is the
18 Staff's responsibility to analyze that.

19 So I clearly will ask the Staff to comment
20 on Dr. Barnes' comment, but that you can come back with
21 regard to that.

22 We'll ask Staff to comment. You were
23 specifically asked a question by Dr. Barnes.

24 **MR. HOWDEN:** Okay. I'm going to ask Dr.
25 Thompson to reply.

1 **MS. THOMPSON:** Patsy Thompson, for the
2 record.

3 The information currently available in CMD-
4 06-H18 on the pages Dr. Barnes' referred to, which are
5 pages 14 and 15, do not contain enough information for
6 people to understand what the issue is and what the
7 context for the new -- or redesigned programs are about.
8 That information is available. We have enough data to put
9 things into context and to explain the reasons and the
10 purposes of the programs going forward. And we commit to
11 doing that for Day-2 in enough time for members of the
12 public to have the information before they need to
13 intervene.

14 **THE CHAIRPERSON:** And we turn to the fact
15 that this is a soil study of property that is Cameco's
16 property so it would be suitable for the Staff to comment,
17 but I'd also, for Cameco, would assume that there might be
18 some operation on 4.1.5, Program "E", page 14 of 38 that
19 could be provided.

20 **MR. VETOR:** Kirk Vetor, for the record.

21 This study is pretty much wrapped up as far
22 as the collection of samples, and we're in the process
23 right now of completing the analysis. We've been speaking
24 with our consultant and they've assured us that they can
25 have that report submitted to us in November of this year.

1 And as soon as we have that report, we'll be forwarding
2 that off to the CNSC.

3 There are conclusions that can be made in
4 that report, and those can be shared with the public. The
5 purpose of this study was really to revisit the soil model
6 that was used in the Ecological Risk Assessment, but
7 rather than using a generic in that model, to have some
8 site specific soil numbers that speak directly to the
9 soils in the immediate vicinity of our conversion
10 facility. So as soon as those conclusions -- that report
11 is prepared and the conclusions are available, we can
12 share those with both the CNSC and the public.

13 **MEMBER BARNES:** I guess what I'm trying to
14 get at here, and I hope it's clear, is that the best means
15 of communicating information in particularly those areas
16 that have historically been of concern to the public, and
17 that's one of the areas of the business of this
18 Commission, is that we have to be sensitive to that. So
19 I'm just going to make the point again, that there's very
20 little information here on the design of soil sampling.
21 Staff indicated that it could be available.

22 It's best to refer to Cameco's page 14 of
23 38, the last sentence says, and I think you just
24 reiterated that:

25 "Cameco expects to submit the final

1 report to the CNSC, including the
2 revised modeling results, in November
3 of this year."

4 It's November that we're meeting in Port
5 Hope and I would be very thankful, if at all possible, and
6 I'll put it politely, that those results would be made
7 available for Day-2, which when combined with the design
8 of the sampling and any other information the Ministry of
9 Environment can also provide, would allow the public to
10 see the data that has been collected, which I think could
11 be a lot more systematic than some of the more
12 controversial previous data. I think it's just an
13 essential approach to try and get that in front of the
14 public that may be concerned or might not be concerned,
15 but it has been in the past and it seems to me that that's
16 the responsibility to try and get that new data, since
17 we're going to be there in an open public forum discussing
18 these things, then it should be discussed in the most
19 scientific and logical way possible.

20 **THE CHAIRPERSON:** If we could move on
21 then. Mr. Graham?

22 **MEMBER GRAHAM:** Thank you. I have a couple
23 of questions.

24 First of all, the first question I have is
25 with regard to your overheads that you presented this

1 morning on page 18 regarding Vision 2010. The two
2 overheads on that there, they're both of the same site, I
3 presume; are they? And that's to Cameco.

4 **MR. STEANE:** Bob Steane. Yes, that is the
5 same site.

6 **MEMBER GRAHAM:** One goes -- one's looking
7 one way and one's looking the other; it's very difficult
8 to overlay it in the right direction, and I'm wondering if
9 -- wouldn't it be more prudent if -- because you know the
10 buildings are going to be removed, but then the new ones
11 are going to be installed, and you're not looking at it --
12 it is backwards, I believe, and it is difficult to see
13 what you're doing. Is it possible to have something a
14 little more clearer?

15 **MR. STEANE:** Bob Steane, for the record.
16 These are actually -- these are photographs of a couple of
17 models that we've made, and I think they're different
18 perspective is because from one angle the -- the one
19 that's showing what's going to be removed, the key
20 buildings that are going to be removed are in the front.

21 If you look at it from the other side, you
22 don't see the buildings that are going to go. The other
23 perspective shows the buildings that are going to be
24 added, and they're more or less on the same side of the
25 property. So looking at it from the same perspective, you

1 don't get the -- you wouldn't see the buildings that are
2 being added.

3 And further, what we have done, is these
4 are pictures of two models that we had made and we have
5 taken those to the public and we are taking them to the
6 public. We had them at our fall fair exhibit. 4,000 or
7 more people came through and saw these models and we're
8 using those to convey that to people so that they can get
9 a real feel of what the site would look like. And we
10 could make those available at the Day-2 hearing as well.

11 **MEMBER GRAHAM:** Well, it's a little
12 confusing, that's all. If it hadn't been for the
13 breakwater out there, and it was covered up under "Vision
14 2010", I wasn't sure if it was even the same site, so --
15 anyway, that's one point. Really my questions though are
16 around storage.

17 And the storage material on leased land,
18 during -- and I realize that -- and that's across on the
19 other side of the harbour, I believe, if I remember
20 correctly being there, you're hoping for a low level waste
21 disposal site to be commissioned soon, I believe. It
22 hasn't been commissioned by the Federal Government yet to
23 move some of this material; is that correct?

24 **MR. STEANE:** Bob Steane. That is correct,
25 it does not have a licence from this organization to

1 construct that.

2 **MEMBER GRAHAM:** So my question is, during
3 this licence period are you adding any new material on
4 that site that is leased?

5 **MR. STEANE:** Bob Steane, for the record,
6 no.

7 **MEMBER GRAHAM:** During the licence period
8 on the site that we look at based on the licence site --
9 the site of Vision 2010, that whole site, what is the
10 anticipated material that will be stored waiting for
11 transfer on the site, how much additional material will
12 you have to store on site that isn't going anywhere else
13 that you have to store during this licencing period that
14 you're applying for?

15 **MR. STEANE:** Bob Steane, for the record.

16 We are not building an inventory of
17 materials as we go forward for that site. The materials
18 that will be going to that site are from the main site and
19 are historically contaminated soils, the historical
20 contaminated material from the buildings. We are
21 producing recycled products and sending our products off-
22 site, so we're not gathering new storage inventory of
23 materials.

24 **MEMBER GRAHAM:** So you are not adding an
25 inventory of either low level or more contaminated

1 materials as you go -- contaminated materials go off on a
2 regular basis to be recycled somewhere else like Chalk
3 River or somewhere; is that correct?

4 **MR. STEANE:** We are a radioactive program
5 to the extent that we can decontaminate; we do that; we do
6 have some materials that we are -- some small quantities
7 of materials that we are -- like storing for some
8 facilities such as Chalk River or some other facility;
9 they're not being stored for this coming facility for the
10 Port Hope Area Initiative.

11 **MEMBER GRAHAM:** Another question I have --
12 there are two other questions. The next question I have
13 is, is based on the -- and this is to CNSC Staff -- based
14 on the licence condition 2.1(a) and (b) with regard to the
15 amount of UF6 that is being increased from 40, 45 tonnes a
16 day as maximum equivalents, but the total does not
17 increase more than 12,500 annually even though the average
18 may be more in a day of manufacturing. The condition is
19 that the amount still doesn't increase on an annual basis;
20 correct?

21 **MR. RABSKI:** Henry Rabski, for the record.
22 That change was to just change the daily production rate;
23 it did not have an affect on the annual limit. The limit
24 stays the same and will remain the same for the proposed
25 licence.

1 **MEMBER GRAHAM:** So in essence, if you hit
2 the maximum, and not necessarily you hit the maximum every
3 day, but if you hit the maximum every day you would do all
4 your production in 275 to 280 days. Is that -- really is
5 that the way you operate? You'd do the maximum each day
6 or you some days may only do 30 tonnes compared to another
7 day at 45?

8 **MR. STEANE:** Bob Steane, for the record.
9 I look forward to the day of 45 tonnes. We don't reset
10 our maximum; we do hit 41, 42 tons and the production
11 varies from the 30s to 40s.

12 **MEMBER GRAHAM:** A question to CNSC Staff, a
13 day is the day you're referring to, so to start
14 production, you don't run it over the average for a week;
15 it would be 45 tons a day; is that correct?

16 **MR. RABSKI:** Henry Rabski, for the record.
17 Yeah, the daily production is calculated on
18 these single days, and we review those records when we're
19 on site to verify that they're in compliance with that
20 upper limit of a daily production, not an average of
21 daily.

22 **MEMBER GRAHAM:** Thank you.
23 The other question I have is with regard to
24 "slight enriched". There is no -- in this licence
25 application there is no processing of "slightly enriched"

1 being requested -- or part of this licence?

2 **MR. STEANE:** Bob Steane, for the record.
3 That is correct. There is no processing of enriched or
4 slightly enriched in this licence. There is the current
5 approval for working with small quantities in the research
6 lab.

7 **MEMBER GRAHAM:** The other question -- it's
8 not a question I have, it's really a comment. It's with
9 regards to the chart on 4 of 38, 6 of 38 and 10 of 38 and
10 so on, it's difficult to follow them sometimes, whether
11 they're cumulative or average with regard to 2006. Would
12 you multiply by two for 2006 or would you take it as the
13 averages going forward. And I guess the environmental
14 monitoring is one with regard -- some of them are on
15 average, but then there are other ones that are incidents
16 and sometimes it might be easier to read, I think, that if
17 you have to take 2006 and multiply it by two to get what
18 it will be for the year or not. And that's a comment that
19 sometimes people who have trouble reading it and
20 automatically just say, "Well, it's up to June and you've
21 got to double it", and that's not the case in many
22 instances, but yet, it's not clear, and it should be more
23 clear when you're putting this forward to the general
24 public.

25 **THE CHAIRPERSON:** I think perhaps 2006

1 predicted based on current levels would be helpful.

2 Thank you, Dr. Dosman.

3 **MEMBER DOSMAN:** Madame Chair, just two
4 questions. One is on the preliminary decommissioning
5 plan, Cameco would be required to submit a revised
6 financial guarantee. And I would like to ask Cameco if
7 you'll have that preliminary decommissioning plan
8 available by the 2nd Day hearing?

9 **MR. STEANE:** Bob Steane, for the record.

10 That preliminary decommissioning plan is
11 available and has been completed; it has been submitted
12 for review. Subject to Staff's review and acceptance,
13 it's there, but -- the plan is done and has been
14 submitted.

15 **MEMBER DOSMAN:** Thank you. And is there a
16 comment from CNSC Staff on the preliminary decommissioning
17 plan?

18 **MR. HOWDEN:** Barclay Howden, speaking.

19 Yes, we will be in a position to -- we will have completed
20 our review of the PDP for Day-2 and be able to report to
21 the Commission where we stand there.

22 **MEMBER DOSMAN:** Thank you. And, Madame
23 Chair, if I might, on page 29 of CMD-06-H1, Staff
24 document, I would like to refer to the proposed -- it's
25 number seven: "Proposed changes to the Licence." And the

1 bottom bullet of that page refers to:
2 "Appendix 'A' being modified to add the licensing
3 documents 'Environmental Monitoring Program' and
4 'Radiation Protection Program Manual' to enhance the
5 licence coverage in these safety areas and provide for
6 additional consistency with other licences issued for
7 similar processing facilities."

8 I would like to ask Cameco, do you have
9 confidence that these documents can be provided in a
10 timely manner?

11 **MR. VETOR:** Kirk Vetor, for the record.

12 We recently revised our Radiation
13 Protection Program and that's being submitted to CNSC
14 Staff for their review. And my understanding is, they are
15 very close to issuing us some comments, and it should be
16 very shortly after that that we'll be able to issue that
17 as a final document.

18 And the Environmental Monitoring Plan, it's
19 already been revised, so there should be absolutely no
20 problem issuing that when it's asked for.

21 **MEMBER DOSMAN:** CNSC Staff, do you have any
22 comment?

23 **MR. HOWDEN:** Barclay Howden speaking. I'm
24 going to ask Marty O'Brien to comment.

25 **MR. O'BRIEN:** Yes, Marty O'Brien for the

1 record.

2 Yes, those two documents are just being
3 finalized right now. The final comments are being
4 resolved, but they'll be resolved in short order.

5 **MEMBER DOSMAN:** I presume that you have
6 full confidence that Cameco can meet this requirement?
7 That's a question.

8 **MR. O'BRIEN:** Yes, Marty O'Brien for the
9 record. Yes, we are.

10 **MEMBER DOSMAN:** Thank you.

11 **THE CHAIRPERSON:** Although I'd just like
12 to make it clear that it's Cameco's responsibility, not
13 the Staff's responsibility to guarantee Cameco abilities.
14 Any further?

15 Well, thank you very much, Mr. Secretary.

16 **MR. LeBLANC:** Merçi beaucoup. This
17 hearing is to be continued with Day-2 on November 28 and
18 29, 2006 at the Town Park Recreation Centre in Port Hope.

19 The public is invited to participate either
20 by oral presentation or written submission on Hearing Day-
21 2. Persons who wish to intervene on that day must file
22 submissions by October 27, 2006.

23 The hearing is now adjourned to November
24 28, 2006. Madame Présidente.

25 **THE CHAIRPERSON:** Well, that you very much

1 for your attendance today. We will be taking a break for
2 lunch and we will be coming back in -- well, it is just --
3 let's see, quarter to two would be, I think, most
4 reasonable. That would be just over -- 13:30 then.
5 --- Upon recessing at 12:35 p.m.
6