1	ONE-DAY HEARING
2	Cameco Corporation: Application for revocation of
3	Mining Facility Removal Licence for the Dawn Lake
4	Project
5	THE CHAIRPERSON: The next item on
6	the agenda is a one day hearing on the matter of
7	an application by Cameco Corporation for the
8	revocation of its Mining Facility Removal Licence
9	for the Dawn Lake Project.
10	January 29th was the deadline set
11	for filing by the applicant and by CNSC staff.
12	The public was invited to participate, either by
13	oral presentation or written submission. January
14	29th was also the deadline set for filing by
15	intervenors. Two requests for intervention were
16	filed and one was accepted. A letter from
17	Tamarick Developments Limited was refused as it
18	was received after the deadline for interventions.
19	The secretary has informed Tamarick Developments
20	Limited that their comments will not be added to
21	the agenda for this hearing.
22	February 21st was the deadline for
23	filing of supplementary information and I note
24	that the applicant has filed supplementary
25	information CMD 02-H3.1A.

1	I understand Mr. Jarrell that you
2	will do the presentation for Cameco. This is
3	noted in CMD Document CMD 02-H3.1,
4	CMD 02-H3.1A.
5	Mr. Jarrell.
6	
7	02-H3/02-H3.1A
8	Oral Presentaion by Cameco Corporation
9	MR. JARRELL: Good morning, Madam
10	Chair, Members of the Commission, Commission
11	staff, ladies and gentlemen.
12	For the transcript of today's
13	proceedings I am John Jarrell and I am Cameco's
14	Vice President of Environment and Safety. I have
15	with me today, Mr. Mark Wittrup who is Cameco's
16	Director of Environment. I should also point out
17	that Mark began his nuclear industry career some
18	22 years ago as an exploration geologist and
19	therefore has developed a first-hand appreciation
20	for some of the topics that are before us today.
21	Before turning things over to
22	Mark, I would like to say a few words about why we
23	have made this application to revoke the Dawn Lake
24	removal licence.

The request arises from the change

1	in regulations which led to the formation of the
2	Canadian Nuclear Safety Commission. What we hope
3	to gain from this process is as follows.
4	First, a better understanding or a
5	regulatory clarity, if you will, about when in a
6	project's life formal CNSC licensing is required.
7	Second, a reduction in the degree of regulatory
8	involvement in the very early stages leading to
9	the uranium fuel cycle since we believe existing
LO	provincial regulations and guidelines provide
L1	sufficient regulatory oversight. Third, with
L2	reduced regulatory involvement, simpler regulatory
L3	approval processes to undertake early stage
L4	exploration work, a simpler process should
L5	translate into reduced process time. And finally,
L6	of course, to eliminate the cost of a removal
L7	licence.
L8	Dawn Lake is a somewhat unique
L9	project insofar as it is a relatively old
20	exploration project, having had in the past
21	removal licences, a decommissioning licence and
22	most recently a removal licence again.
23	Our purpose here today is
24	four-fold. First, to give you a brief background
25	on this exploration project. Second to give you

1	our interpretation as to the point in the
2	exploration cycle when formal CNSC removal
3	licensing is wholly appropriate. Third, to give
4	you our views as to why provincial regulations and
5	existing guidelines provide sufficient oversight.
6	And finally, to answer any questions you may have
7	in making your deliberations on our request for
8	licence revocation.
9	I would now like to turn the
10	presentation over to Mark Wittrup. We would, of
11	course, be glad to answer any questions either
12	now, after Mark's presentation or at any other
13	time in these proceedings.
14	Mark.
15	MR. WITTRUP: Thank you, John.
16	Madam President, Commissioners.
17	For the record, my name is Mark
18	Wittrup. I'm Director, Environment for Cameco
19	Corporation.
20	The Dawn Lake Project is a surface
21	mineral exploration project located in the eastern
22	Athabasca Basin in northern Saskatchewan. It's
23	centred about halfway between the Midwest project
24	and the McClean Lake projects and that is the star
25	on the slide.

1	Access to the site is currently by
2	float or ski-equipped aircraft or by trails off of
3	Highway 905 or the Stony Rapids, Black Lake winter
4	road. And just as an aside, there has been a few
5	questions on the type of aircraft in the picture.
6	It's a single Otter, the north's slowest and
7	noisiest but most reliable aircraft.
8	The Dawn Lake project is comprised
9	currently of over 20 mineral claims and claim
10	blocks of which only four currently comprise the
11	removal licence. Those four claims cover the
12	LaRocque Lake area at the north of the project, I
13	will point the arrow to it there, and the Dawn
14	Lake and Collins Creek areas in the east central
15	portion of the mineral claims.
16	The only current activity on the
17	site is surface mineral exploration, which may
18	include prospecting, sampling, linecutting,
19	geophysical surveys and diamond drilling in an
20	effort to locate and define some resource.
21	Over the next series of pictures,
22	I'm just going to show a few scenes and try to
23	give a sense of the scale of the activities at
24	Dawn Lake associated with the mineral exploration.
25	This is a typical diamond drill

setup. A small clearing connected by a trail or 1 series of trails that sits on the grid area. 3 note are Saskatchewan Environment and Resource Management permits require us to keep clearing to 4 an absolute minimum, largely in response to some 5 of the excesses of mineral exploration in the early eighties. 7 Drilling is often best done in the 8 winter as it provides easier access to wet areas, 9 10 bogs, muskegs or drilling off lakes. As an aside again, winter drilling also minimizes impacts to 11 soils. 12 13 This is the LaRocque Lake 14 exploration camp, in winter obviously. A typical 15 drill camp for this type of work. Here we would have two tents for the drillers and the cook to 16 live in. Two tents for the geologists. One 17 18 cook/dining tent and one wash tent or dry. is pumped from the nearest lake, electricity is by 19 20 generator and heating is by fuel oil. 21 Now, we are standing in the same spot and we have turned around 180 degrees both in 22 23 direction and season, in the centre is the logging shack for the cold core or the non-radioactive 2.4

core in the mineral exploration. Off in the far

distance just visible on the right-hand side by a reflection off the roof of the tent is the hot core logging tent or that tent in which we log the radioactive core. And it should be noted that it is well away from the living areas.

2.4

Now, this is one of our project geologists logging core at Dawn Lake. This is the logging of non-radioactive core. For radioactive core, the geologists log -- have a log-in sheet. They log in and out, record the gamma levels, wear coveralls, safety glasses, TLD badges and minimize time spent with the core.

Now, one would think they would spend more time with the mineralized sections than the non-mineralized sections because that is the object of interest. But in contrary, they actually spend very little time with the radioactive core because it tends to be black, amorphous and doesn't provide very much information with respect to locating more of the same. They tend to be looking above and below the deposit for signs of alteration, structure and other things that might lead them in a more fruitful direction. More information about the radioactive core is actually obtained from down

hole gamma logging and mineral geochemical
analyses.

2.4

At Dawn Lake the original removal licence was obtained in the early 1980s when site activity was at its peak. This was the intensive work that ultimately produced measured resources for the Dawn Lake project, that is delineation drilling. With the end of high uranium prices, work on the project dropped steadily until the removal licence fee was a substantial part of the overall operating budget. At that point we converted it, this is the mid-eighties, into a decommissioning licence.

The effect of going to a decommissioning licence meant that the site was cleaned up from a radiological standpoint and the radioactive core, mostly a core greater than about 0.05 per cent U<sub>3</sub>O<sub>8</sub> was transported to Rabbit Lake for storage where it stays now and that is the practice we continue to this day. We reinstated the removal licence in 1999, because there was a good chance that drilling at LaRocque would intercept greater than 10 kilograms U, which under the old act and regulations was the trigger point for a removal licence.

At Dawn Lake historic area, 1 exploration has occurred on the site since about 2. 3 1975 when the properties were staked. Work on the site eventually delineated about 13 million pounds 4 U,0, in several small ore pods. Under the removal 5 licence, redrilling of the original deposits was done in the year 2000, but that drilling added as 7 many reserves as it subtracted and so overall 8 there was no net gain. As such, the original Dawn 9 Lake deposit continues to remain uneconomical 10 under current conditions and there is no plan in 11 the near future to do any work in this. 12 13 The work at Dawn Lake is still at 14 the exploration level and while we have 15 intersected mineralization at LaRocque Lake and Collins Creek, there is no defined ore zone, ore 16 17 body or even anything with any continuity at all 18 or as per the Ontario Securities Commission's definitions, we have no inferred or indicated 19 20 resources at the sites and as such, exploration at 21 Dawn Lake continues. Currently planned future work includes some drilling on LaRocque Lake, 22 23 which is ongoing right now and nothing on the 2.4 Collins Creek showings until the year 2003 at the 25 earliest.

1	I would just like to show a couple
2	of slides here. I'm afraid the clarity is not as
3	great as I would have liked. But the legend on
4	these diagrams, we are showing about a kilometre
5	along the grid at LaRocque Lake here, and the
6	legend shows the grade tonnage, which is simply a
7	multiple of the grade of the intersection times
8	the distance along that intersection in metres.
9	Of course, from an economic standpoint, yellows
10	and reds would be of the most interest but we can
11	see, as you look along the grids, that there are
12	very few of those and they are widely spaced and
13	separated with a lot of, unfortunately, with a lot
14	of blues and tans amongst them. The point being
15	is that we still don't have any continuity or form
16	to the showings on site.
17	We are showing about two
18	kilometres on this slide along the Collins Creek
19	deposit. Again, the same thing. We note the blue
20	is the lowest grade tonnage, essentially that is
21	background or lower and we can see that in this
22	case blues dominant. It's a little clearer shot.
23	Again, no form or continuity. We are simply
24	still looking for that.

Under the new act and regulations

1	a licence is not required because we are not
2	evaluating an ore body and we are not examining it
3	at all for any form of commercial exploitation at
4	this stage. We draw the line between licensable
5	and unlicensable at the point where a decision is
6	made to do delineation drilling to move from an
7	indicated resource, which marks the end of
8	exploration, to the large amount of work required
9	to move to a measured resource.
10	Current activities are fully
11	regulated by SERM, Saskatchewan Labour,
12	Saskatchewan Health and the Department of
13	Fisheries and Oceans. SERM is involved mostly in
14	the environmental protection through their mineral
15	industry environmental protection regulations and
16	associated guidelines. And for permitting at the
17	level of mineral exploration, we are required, as
18	part of our applications, to supply an
19	environmental protection plan and decommissioning
20	plan.
21	There are frequent inspections of
22	our sites by conservation officers who have the
23	resources of the centralized SERM mine inspections
24	branch in La Ronge as part of their resources as
25	well as their fisheries experts and land experts.

1	Saskatchewan Labour inspects for
2	conventional safety, especially for the diamond
3	drillers, which is a fairly what is the word
4	I'm looking for? it can be a dangerous
5	occupation. Radiation is indirectly regulated
6	through the use of NORM guidelines and due care
7	clauses.
8	Saskatchewan Health inspects camp
9	living conditions, although infrequently, but they
10	do review our environmental protection plans to
11	ensure that our sewage and water supplies are
12	adequate.
13	Department of Fisheries and Oceans
14	issues fish habitat authorizations and reviews our
15	applications for stream crossings.
16	The CNSC continues to regulate our
17	operations through the packaging and transport of
18	radioactive materials regulations and at Cameco we
19	have standard procedures for handling radioactive
20	core and these procedures, actually are found in
21	Appendix D of our current Dawn Lake Mining
22	Facility Licensing Manual, and these were the
23	procedures we use at all of our other greenfields
24	exploration sites and we will continue to use if
2.5	the ligence is reveled. And TID bedges are used

1	by all of our field staff.
2	In conclusion, I believe the
3	licence is no longer applicable because it's not
4	required by the regulations and that we are a
5	precursor and one would argue, a speculative
6	activity, prior to any activity within the
7	licensed nuclear fuel cycle. However, we
8	recognize that a CNSC licence is required once the
9	drilling has defined an indicated resource and at
10	that stage the activity moves to delineation
11	drilling. And that delineation drilling marks a
12	large increase in spending in order to work to
13	define a measured resource as defined again by the
14	Ontario Securities Commission.
15	Now, as a publicly traded company,
16	Cameco is obligated to notify our stakeholders,
17	because a move from the indicated to work towards
18	measured is a material fact. And what it does is
19	it provides a relatively easy means for the CNSC
20	to judge whether we are in the right range for
21	having a removal licence on a particular project.
22	In conclusion, we believe that not
23	having a licence provides no unreasonable risk to
24	the environment. This is a low footprint
25	activity. There are no unreasonable risks to

1	workers or the public as we have documented in our
2	CMD the low radiation exposure activity, and we
3	will continue to use the same procedures that we
4	have used in the past.
5	In addition, there is an effective
6	regulatory structure surrounding this early stage
7	of exploration. As such, we respectfully request
8	revocation of the Dawn Lake licence until such
9	time as a definitive removal licence is required
10	to develop a mineral reserve.
11	I thank you for your attention.
12	THE CHAIRPERSON: Thank you.
13	With the permission of the
14	Commission members, I would like to turn to the
15	CNSC staff for their presentation before we open
16	the floor for questions. With that regard, I would
17	like to turn to the oral presentation by CNSC
18	staff as noted in CMD Document 02-H3 and I will
19	turn to Mr. Howden.
20	
21	02-н3
22	Oral Presentation by CNSC Staff
23	MR. HOWDEN: Madam Chair and
24	Members of the Commission, for the record my name
25	is Barclay Howden. I am the Acting Director

1	General of the Directorate of Nuclear Cycle and
2	Facilities Regulation as well as the Director of
3	the Uranium Facilities Division.
4	With me today is Mr. Rick McCabe,
5	Head of the Uranium Mines Section of the Uranium
6	Facilities Division.
7	Cameco Corporation has applied for
8	the revocation of their mining facility removal
9	licence for the Dawn Lake project on the basis
10	that the current activities being carried out on
11	this project and for the foreseeable future are
12	strictly surface mineral exploration activities
13	which are exempt from the Uranium Mines and Mills
14	Regulation under the Nuclear Safety and Control
15	Act.
16	CNSC staff has assessed the
17	application and has developed a position which is
18	documented in CMD 02-H3.
19	I will now pass over the
20	presentation to Mr. McCabe, who will outline our
21	assessment and recommendations.
22	MR. McCABE: Thank you,
23	Mr. Howden.
24	Madam Chair, Members of the
25	Commission, for the record my name is Rick McCabe

1	and I am Head of the Uranium Mines Section.
2	Cameco Corporation has applied to
3	the Canadian Nuclear Safety Commission to have the
4	Dawn Lake Mining Facility removal licence revoked
5	because a licence under the Nuclear Safety and
6	Control Act is not required for the surface
7	mineral exploration activities currently being
8	carried out on this project.
9	Exploration is the search for
10	minerals using geological surveys, geophysical
11	prospecting, bore holes, trial pits or surface or
12	underground headings, drifts or tunnels.
13	Exploration aims at locating the
14	presence of mineral deposits and establishing
15	their nature, shape and grade. Surface
16	exploration refers to those activities carried out
17	from the surface, primarily by collecting
18	information from drill cores.
19	The Uranium Mines and Mills
20	Regulations do not apply to uranium prospecting or
21	surface exploration activities, therefore a CNSC
22	licence is not required for surface exploration.
23	A project to discover and collect
24	information about an ore body follows a
25	progression that eventually leads to the decision

1	to construct a mine.
2	As the exploration project
3	progresses, confidence is gained in the
4	reliability of the resource description
5	interpreted from the information gathered.
6	Eventually the exploration company will have
7	enough information to enable them to produce
8	resource estimates.
9	It is at this point that the
LO	company will begin to evaluate possible mining
L1	scenarios. This activity will trigger the
L2	requirement for a CNSC licence.
L3	The Nuclear Safety and Control Act
L4	and the Uranium Mines and Mills Regulations do no
L5	define when exploration ends and evaluation
L6	begins. CNSC staff is examining a number of ways
L7	to define this point with certainty.
L8	A CNSC mine site preparation
L9	licence will be required once enough information
20	has been collected about a mineral deposit to
21	support mine planning and evaluation of the
22	economic viability of the deposit.
23	I wish to assure the Commission
24	that any work that involves underground
25	development is considered to be for the purposes

1	of evaluating a potential ore body. A CNSC
2	licence would be required for any underground
3	activities, however the discussion for this
4	licensing action only relates to surface
5	activities.
6	The Dawn Lake project was licensed
7	under the Atomic Energy Control Act and Uranium
8	and Thorium Mining Regulations. Exploration
9	activities were exempted from provisions of the
10	Uranium and Thorium Mining Regulations, however a
11	licence was required to remove more than
12	10 kilograms of uranium in a calendar year.
13	The 10 kilogram provision was in
14	conflict with the exemption of exploration
15	activities, because this limit can easily be
16	exceeded during exploration.
17	The Atomic Energy Control Board
18	staff, while recognizing the conflict, implemented
19	the more restrictive provision and required a
20	licence for the Dawn Lake project, even though the
21	activities carried out were clearly for
22	exploration.
23	The Atomic Energy Control Act and
24	Uranium Thorium Mining Regulations were replaced
25	by the Nuclear Safety and Control Act and the

1	regulations made under that Act.
2	Under the new legislation, a
3	licence is not required until a company's
4	activities change from exploration to evaluation
5	of a potential ore body.
6	The 10 kilogram requirement was
7	removed from the legislation because it was in
8	conflict with the intent to exclude exploration
9	from the CNSC mandate.
10	In addition to the exclusion in
11	the Uranium Mines and Mills regulations, naturally
12	occurring nuclear substances, other than those
13	that are or have been associated with the
14	development, production or use of nuclear energy,
15	are exempt from the provisions of the NSCA and the
16	regulations made under the Act. This exemption
17	applies to exploration projects because they are
18	not, nor have they been, associated with the
19	development, production or use of nuclear energy.
20	Uranium recovery during
21	exploration is a naturally occurring nuclear
22	substance. Even though the amount of uranium
23	removed during exploration may exceed exemption
24	quantities found in the Nuclear Substances and
25	Radiation Devices regulations, section 10 of the

1	General Nuclear Safety and Control Regulations
2	exempts it from the provisions of the Act and
3	regulations.
4	CNSC staff is satisfied that the
5	activities that have been undertaken at the Dawn
6	Lake project to date are clearly associated with
7	surface exploration.
8	It is our assessment that,
9	according to the Nuclear Safety and Control Act
10	and the regulations under that Act, the surface
11	exploration activities that are being carried out
12	at the Dawn Lake project are not within our
13	mandate. These activities fall under the
14	jurisdiction of the Province of Saskatchewan.
15	Surface mineral exploration
16	activities in Saskatchewan are overseen by
17	Saskatchewan Environment and Resource Management
18	on behalf of several provincial departments. The
19	Saskatchewan Environment and Resource documents,
20	Surface Exploration Guidelines for the Mining
21	Industry provides guidance on how a minimum
22	exploration program should be planned, implemented
23	and completed in a manner that minimizes
24	environmental impacts and meets Saskatchewan
25	legislation.

1	A surface exploration permit
2	issued by SERM may contain conditions for
3	exploration activities, site access, work camps,
4	land clearing, drilling and reclamation of
5	disturbed areas.
6	Saskatchewan's Occupational Health
7	and Safety Act and regulations apply to
8	exploration activities. They are administered by
9	the Saskatchewan Department of Labour. There are
10	a number of provisions in the Act that allow for
11	the application of the Canadian Guidelines for the
12	Management of Naturally Occurring Radioactive
13	Materials published by Health Canada in the event
14	that the safety of workers is found to be at risk.
15	The basic principle of these
16	guidelines is that the same protection should be
17	applied to workers or the public exposed to
18	radiation from activities involving naturally
19	occurring nuclear substances as is applied to
20	workers or the public exposed to radiation from
21	CNSC-regulated activities.
22	The Atomic Energy Control Board
23	required the posting of a financial guarantee to
24	fund the decommissioning of the Dawn Lake project.
25	Cameco has provided an irrevocable letter of

1	credit for \$60,000 for this purpose.
2	Saskatchewan has indicated that
3	this financial guarantee will be no longer
4	required if this licence is revoked. Instead,
5	SERM uses permits to ensure the cleanup and the
6	decommissioning of surface exploration sites.
7	Conditions related to the restoration of sites are
8	included in the surface exploration permit issued
9	for each drilling campaign.
LO	Once the cleanup has been
L1	completed the site is inspected by the province.
L2	Requirements for decommissioning are included in a
L3	general use permit for the Dawn Lake Exploration
L4	Camp. This permit must be renewed annually.
L5	CNSC staff recommends that the
L6	Commission:
L7	Accept CNSC staff's assessment
L8	that pursuant to the Nuclear Safety and Control
L9	Act and the regulations made under the Act a
20	licence is not required for the Dawn Lake project.
21	Accept CNSC staff's determination
22	that the proposal does not require an
23	environmental assessment under the Canadian
24	Environmental Assessment Act.
) E	And rough Mining Eagility

1	Removal Licence AECB-MFRL-180-0.1.
2	Thank you.
3	THE CHAIRPERSON: Thank you.
4	The floor is now open for
5	questions from the Commission Members.
6	Ms MacLachlan.
7	MEMBER MacLACHLAN: Mr. McCabe, I
8	received your CMD 02-H3 last night and it is the
9	slides that you presented. It consists of the
10	slides you presented today. Is there a written
11	submission? Much of the text that you provided to
12	us was not contained in this presentation. Is
13	there a written text as backup to your
14	presentation? I didn't receive anything.
15	MR. HOWDEN: We haven't submitted
16	a written one. We just have the text that he is
17	working from here.
18	MEMBER MacLACHLAN: Okay. I will
19	come back later. Thank you.
20	THE CHAIRPERSON: Mr. Graham.
21	MEMBER GRAHAM: A couple of
22	questions with regard to the exploration.
23	When you are drilling up on this
24	project, do you cap all the holes after you are
25	done drilling? Are they all capped, or just the

1	ones where there was radioactive material found?
2	Could you explain that process?
3	MR. JARRELL: Yes. They are
4	capped if they are artesian, for sure.
5	MEMBER GRAHAM: Yes, for sure.
6	Yes.
7	MR. JARRELL: Regardless. We have
8	requirements to cap all holes within a certain
9	distance above and below the intersection if we
LO	intersect any radioactive mineralization
L1	whatsoever. That is in the SERM regulations.
L2	MEMBER GRAHAM: That is what I was
L3	coming at. Do you cap those where you found
L4	MR. JARRELL: Right. So there is
L5	no
L6	MEMBER GRAHAM: Yes. So who
L7	inspects those? It is not CNSC staff, it is SERM
L8	that does that inspection?
L9	What assurances are there and what
20	safeguards are there to make sure that all those,
21	where there may have been a positive find of
22	mineral, were capped? How is the tracking?
23	MR. JARRELL: Sure. No, I
24	understand.

There are two things. One, we

have to submit the reports from the diamond
drilling. There is no way to visually examine
that the work was done, but the work is reported
and done and you do bag count on the cement.
I had a second point.
MEMBER GRAHAM: It is SERM that
does that inspection?
MR. JARRELL: It would be SERM,
yes.
MEMBER GRAHAM: The method of
drilling, you have indicated when you do encounter
positive ore body or positive ore bodies, those
core samples are then taken off the site. They
are not left in the core shacks there, they are
taken directly to they are flown out, are they,
or how are they transported off the site?
MR. JARRELL: Generally they are
driven off site in the back of a pick-up truck,
packaged
MEMBER GRAHAM: There are roads in
enough that you can get
MR. JARRELL: We have trails, yes.
This is not a fast process of getting in and out,
that is for sure.

No, all of the core is removed to

1	a licensed site progressively over the course of
2	the winter. Or if it is a very remote site, it
3	could be flown out.
4	MEMBER GRAHAM: Then a question to
5	CNSC staff.
6	When does your staff start
7	examining radioactivity in the transportation or
8	in the transportation methods, and so on? Do you
9	have a way of monitoring that?
10	MR. HOWDEN: I will ask Rick
11	McCabe to respond.
12	MR. McCABE: In the general
13	regulations under the definition of naturally
14	occurring nuclear substances, which is the same as
15	the terminology used in the other guidelines as
16	NORM, naturally occurring radioactive material,
17	the transportation regulations apply to the
18	movement of that material. It doesn't exclude
19	that.
20	Although the CNSC jurisdiction
21	isn't in there, transportation regulations do
22	apply and I should have made that point very
23	clear.
24	MEMBER GRAHAM: So the guidelines

do apply at that time?

1	MR. McCABE: Yes, the regulations.
2	Your transport regulations apply for the movement
3	of material off of those sites, yes.
4	MEMBER GRAHAM: Okay.
5	One other question I have, if I
6	may, Madam Chair, in the definition or in the
7	wording it said I know it is not very big, it
8	is only a \$60,000 financial guarantee, but the
9	comment always strikes me when I see those in
10	writing "are in good standing".
11	When are they not in good
12	standing? If you have a guarantee it should
13	always be in good standing. How do you monitor
14	that, that some may not get in good standing? I
15	don't understand that part as a safety check.
16	MR. McCABE: The question is with
17	regard to the \$60,000
18	MEMBER GRAHAM: Yes.
19	MR. McCABE: Those letters of
20	credit are self-renewing, so that are always in
21	good standing unless we are notified that they are
22	not going to be renewed by the institution 90 days
23	prior to the expiry date. So we would know that
24	they are not about to be renewed by the
25	institution, so it wouldn't be in good standing.

1	MEMBER GRAHAM: So your letters of
2	guarantee are not indefinite? I know this is only
3	a very small amount of money and it is not maybe
4	significant, but I am also thinking of letters of
5	guarantee we see on larger projects.
6	It is not money deposited by the
7	company in an institution that can't be touched.
8	These are just letters from the institution.
9	There is quite a big difference between the two
10	types of guarantees.
11	When does CNSC require that that
12	money be deposited separately, and when does it
13	require that it is just a letter of guarantee from
14	the bank and as long as everything is going well
15	with the company the bank will continue to honour
16	it?
17	MR. McCABE: The letter of credit,
18	I guess, can be looked as insurance, sort of
19	backed by a financial institution, and they say
20	that they will pay that out should the regulatory
21	agencies, both the CNSC and Saskatchewan Resource
22	Management call that letter.
23	So if there were any conditions
24	under which there was any need for that,
25	Saskatchewan and the CNSC could call that credit.

1	Then it would be converted to some sort of
2	security for the province.
3	In the interim I look at it as
4	insurance, an insurance policy.
5	MEMBER GRAHAM: I'm not getting
6	the answer. Maybe I'm not explaining myself
7	correctly.
8	The thing that I am saying is that
9	it is like an insurance policy. You have
10	insurance on your automobile as long as you pay
11	the premiums, but the day you don't pay your
12	premium and you keep on driving you are not
13	covered.
14	What I'm saying is, this is a
15	letter of guarantee from a bank I don't want to
16	belabour the point on this one because it is only
17	small and it is not maybe significant, but in
18	larger ones where letter of guarantees can be
19	stopped at any time or the banks can give them up,
20	there is quite a difference between that and a
21	deposit where the money is set aside.
22	That is something that we should
23	always watch, that if somebody sets aside
24	\$5 million in a bank account or a bond, or
25	something, that is quite a lot different than just

1	getting a letter of guarantee. That is the point
2	I was trying to make.
3	MR. McCABE: Right. If I might
4	explain that, the letter of credit has a defined
5	termination date.
6	MEMBER GRAHAM: I realize that.
7	MR. McCABE: So 90 days back from
8	then we would get notification up during that
9	period the financial guarantee is in place.
10	Ninety days prior to that we would get
11	notification if that letter of credit was not to
12	be renewed and we would have to then take action
13	based upon that notification.
14	MEMBER GRAHAM: But then if you
15	couldn't find anyone to give you a letter of
16	guarantee
17	MR. McCABE: Then you could call
18	the letter of credit during that period of time.
19	MEMBER GRAHAM: Thank you.
20	THE CHAIRPERSON: Would the
21	applicant wish to clarify? Is there anything in
22	that discussion that concerns you or that is on
23	record?
24	MEMBER GRAHAM: Sorry about that.
25	MR. WITTRUP: No, I think

1	Mr. McCabe has essentially captured it. This is a
2	bank letter of credit from a large financial
3	institution. Obviously from our perspective we
4	don't want to tie capital up in such things as
5	bonds, so I think it basically rests under the
6	credit of things like the Royal Bank. That is all
7	I would have to add.
8	THE CHAIRPERSON: Dr. Barnes.
9	MEMBER BARNES: Just two
10	questions.
11	I think you mentioned it, but just
12	for my clarification again.
13	Which is the Saskatchewan agency,
14	then, that monitors the health of workers and
15	geologists in the hot core shack?
16	MR. JARRELL: That would be
17	Saskatchewan Labour.
18	MEMBER BARNES: You indicated that
19	those provincial agencies were not very visible up
20	in these camps. Do we have any particular problem
21	with this?
22	MR. JARRELL: Access usually. The
23	sites are quite isolated and generally
24	MEMBER BARNES: I am referring to
25	their ability to monitor this effectively and

1	ensure that those regulations and the protection
2	of workers is
3	MR. JARRELL: I'm not sure how to
4	answer that. They do monitor it, but their
5	presence, their physical presence at the site is
6	not very common.
7	I know they have inspections
8	scheduled for next month, so they will be showing
9	up.
10	MEMBER BARNES: Does staff have
11	any concerns on this sort of issue? I guess it is
12	outside of your jurisdiction technically.
13	MR. McCABE: I guess if we were to
14	look at it from the point of view of the risk with
15	regard to this, the intermittent nature of the
16	operations, either sometimes in the summer,
17	sometimes in the winter.
18	The frequency of inspections by
19	our own staff has been minimal also and it doesn't
20	really create us a lot of concern in that regard
21	because of the potential for being inspected is
22	there, but it is very infrequent.
23	MEMBER BARNES: A second question
24	to Cameco, if I could.
25	You indicated that the transport

1	of the drill core, the hot drill core, was perhaps
2	a long, slow process in a pick-up truck, and so
3	on. Again, is there any potential health,
4	depending on the duration there, of the drivers
5	concerned?
6	MR. JARRELL: Based on the grade
7	of the material, the fact that it would be
8	packaged according to the regulations and sitting
9	in the back of a truck well removed from the
10	operator, I don't think so.
11	MEMBER BARNES: The packaging is
12	not repackaging. These are going to stay in the
13	drill boxes, right?
14	MR. JARRELL: It is going to stay
15	in the drill boxes, but we wrap them, we screw
16	lids on them and they are secured in the back of
17	the truck so that there is no potential for
18	release of material from the core boxes.
19	MEMBER BARNES: I'm thinking about
20	the radiation hazard.
21	MR. JARRELL: I couldn't do the
22	calculation, but it would be very minimal. They
23	are badged as well and generally for the whole
24	winter our geologists come up with minimal
25	exposure03 I think was the highest geologist

1	for last year for instance millisieverts.
2	MEMBER BARNES: Okay. Thanks.
3	THE CHAIRPERSON: Dr. Giroux.
4	MEMBER GIROUX: Yes. Just
5	following up on that one03 what?
6	MR. JARRELL: I'm sorry,
7	millisieverts.
8	MEMBER GIROUX: Millisieverts.
9	Thank you. That was one of my questions.
10	Could I raise just two questions,
11	or three.
12	The 10 kilograms as a limit which
13	used to exist, how does that translate in terms of
14	mass or volume of material of rock? How large is
15	that? It says "10 kilograms of uranium".
16	MR. JARRELL: I can't do the math
17	in my head, but you are looking at a density,
18	depending on the grade, from somewhere of around
19	2.5 to 4 grams per cubic centimetre. So I'm not
20	sure what the mass would be. It is not very big,
21	in terms of it is spread out in a lot of core
22	boxes and just it is a tough one to answer. It
23	is grade dependent really.
24	MEMBER GIROUX: It depends on the
25	grade, that is the point, yes.

1	MR. JARRELL: Yes.
2	MEMBER GIROUX: But you are
3	talking about hundreds of kilograms of material?
4	MR. JARRELL: Oh, no. No. I have
5	the numbers right here.
6	For all of the exploration work
7	done basically from about 1985 to 1998 we had
8	generally about 0.1 kilograms per year.
9	In 1999 for all of the sites at
10	Dawn Lake we had a total of 16.13 kilograms.
11	The year 2000 we had
12	19.93 kilograms, which was really only twice the
13	de minimis limit.
14	For 2001, I worked all week trying
15	to get the numbers, but all the geologists were
16	out in the field and I couldn't get hold of them,
17	but it has been indicated it will be substantially
18	less than last year.
19	So that is the order of magnitude
20	we are looking at.
21	MEMBER GIROUX: Those numbers are
22	for the total material removed by drilling?
23	MR. JARRELL: That is right.
24	MEMBER GIROUX: Okay.
25	MR. JARRELL: We added up all of

1	the intersections in terms of the uranium content
2	for everything that was drilled in that year on
3	the whole Dawn Lake project. So that is actually
4	drilling at a number of grid locations, La Rocque
5	Lake for instance, the 19.93 included drilling
6	at the Dawn Lake ore zone, at the La Rocque
7	showing and at the Collins Creek showing.
8	MEMBER GIROUX: Thank you. That
9	answers the question.
10	The other one I had is just a
11	clarification, I think it should be fairly
12	obvious.
13	But is it very clear that drilling
14	is understand as being surface exploration?
15	MR. McCABE: Drilling can be part
16	of surface exploration. Drilling is a continual
17	operation that can happen after the mine is
18	completely developed. They are always tending to
19	try to define new ore bodies, better information
20	on the thing. So it doesn't exclusively mean that
21	exploration is happening.
22	What we are looking at here is a
23	continuum from exploration to evaluation. What we
24	are trying to do is define a point at which the
25	licensing will start in evaluation.

1	So some of the activities that
2	take place during exploration could also be taking
3	place during evaluation. So I don't like to focus
4	on just the activities that are taking place to
5	define that point.
6	I think what we are talking about
7	here, the point at which licensing begins, is an
8	understanding of the intent of what is going to
9	happen, the confidence level that the company has
10	that they have a mineral resource that could be
11	further developed.
12	We have begun to look at defining
13	that point and I think the only difference we have
14	with the companies and others we have discussed
15	this with is terminology. There has been some new
16	terminology introduced by the Ontario Securities
17	Commission, people have terminology that they talk
18	about with reserves, gaining confidence in
19	reserves, and all I think we have to do is define
20	that point at which we gain they have the
21	confidence to go ahead to call this a "uranium
22	mine" what has a potential for becoming a
23	uranium mine, and at that point we would then
24	begin licensing.

So I don't want to just tie that

25

1	point to an activity.
2	MEMBER GIROUX: But in your
3	analysis it is very clear that in this specific
4	application here we are talking about exploration.
5	That is very clear for you?
6	MR. McCABE: Very much so, yes.
7	MEMBER GIROUX: Thank you.
8	THE CHAIRPERSON: Ms MacLachlan.
9	MEMBER MacLACHLAN: My questions
10	are for staff on the larger issue of one of the
11	first objectives that Cameco set out for itself,
12	and that is to determine when formal CNSC
13	licensing is required.
14	I am struggling with this. This
15	is the larger issue that in some way has nothing
16	to do with this application, but it is very
17	important.
18	Through this application, I
19	understand what you are saying is that drilling
20	from surface is at the early stages encompassed in
21	the definition of exploration, and that is really
22	regulated by SERM, and you are making the case
23	here that no CNSC licence is required by
24	regulation or the Act.
25	So if I can just follow that

1	through then. The core samples that are preserved
2	and analyzed on site then, assuming they have
3	naturally occurring radioactive material in those
4	core samples, the safe handling of those core
5	samples and storage of those core samples then is
6	regulated or must be handled under the Health
7	Canada guidelines. Is that correct?
8	MR. McCABE: Transportation?
9	MEMBER MacLACHLAN: No, no.
10	MR. McCABE: Storage is covered
11	then by the province, yes.
12	MEMBER MacLACHLAN: No.
13	MR. McCABE: The storage of the
14	core is covered by Saskatchewan Environment. The
15	aspects of labour, exposure to workers is covered
16	by Saskatchewan Labour.
17	MEMBER MacLACHLAN: Right.
18	MR. McCABE: Under the NORM
19	guidelines.
20	MEMBER MacLACHLAN: But you also
21	said that there are Canadian guidelines for the
22	management of naturally occurring radioactive
23	materials and in your oral presentation you said
24	that those guidelines were from Health Canada.
25	MR. McCABE: Yes. My apologies.

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1	MEMBER MacLACHLAN: I am just
2	trying to get the life cycle because it seems to
3	me that the purpose of the Commission is to ensure
4	that these materials are safely managed and
5	stored, and then at some point if those cores, the
6	core samples or other materials that are stored or
7	site that might be regulated either by guidelines
8	from another department or by the province, if
9	they are transported off site then the CNSC
10	regulations would kick in with respect to
11	transportation. Okay.
12	And the clean up of that site and
13	decommissioning of that site, as I understand it,
14	would be regulated by SERM.
15	MR. McCABE: That is correct.
16	MEMBER MacLACHLAN: As long as it
17	is at the exploration stage. Okay.
18	Now, a number of mining companies
19	have advanced exploration programs where they
20	actually underground and they remove materials
21	from underground and that is still called an
22	advanced exploration stage. They may even have
23	open pit mining.
24	THE CHAIRPERSON: I just would
25	like to caution that the discussion not get

1	outside the purview of this licence application,
2	just with some care that we do not go beyond the
3	application that is before us, please.
4	MEMBER MacLACHLAN: My question
5	is: Would those kinds of activities fall within
6	evaluation or exploration, according to the
7	definition that you have used, and perhaps that's
8	an academic distinction, but I don't know the
9	forum in which I should ask those questions for
10	the purpose of Commission members clarification.
11	THE CHAIRPERSON: Well, I would
12	again caution that this is a licence hearing on ar
13	application by this licensee for this project, and
14	if there is clarification required with regards to
15	the definitions of exploration, et cetera, with
16	regards to this application, that is suitable.
17	Broader discussions could be held and could be
18	done by a technical briefing, or whatever.
19	But I will wish to restrict this
20	discussion to the specifics of this application.
21	So Mr. McCabe, you can respond to Commissioner
22	MacLachlan with the regards to the specificity of
23	the definition of this application.
24	MR. McCABE: I did include in my
25	presentation assurance to the Commission that any

1	underground activities would be CNSC licensing.
2	The definition of an excavation site and a removal
3	site are still in the Uranium Mine and Mills
4	Regulations and any activity of an open pit nature
5	would also trigger licensing by this Commission.
6	Those definitions are within the body of the UMMR.
7	THE CHAIRPERSON: Is there further
8	clarification on exactly what this applicant is
9	requesting or is needed at this time, or you feel
LO	that that has been discussed in fulsome?
L1	MR. HOWDEN: I think we are
L2	satisfied. The point we were trying to make is
L3	that we feel that on the continuum Mr. McCabe said
L4	that we were definitely at the surface exploration
L5	stage on that end, and we haven't approached
L6	whatever the trigger would be for evaluation which
L7	we are committed to do stakeholder consultations,
L8	that type of thing to define that.
L9	May I make one other point of
20	clarification?
21	THE CHAIRPERSON: Yes.
22	MR. HOWDEN: It has to do with the
23	workers safety. We received correspondence from
24	Saskatchewan Labour that basically outlined their
25	legislative regime. They said that even though

1	the guidelines are produced by Health Canada, they
2	indicated that as part of implementing their
3	regime they use those Health Canada guidelines
4	which were produced under a
5	federal-provincial-territorial working group.
6	THE CHAIRPERSON: Does the
7	applicant wish to clarify, please?
8	MR. WITTRUP: Yes. Just to
9	measure that. To go underground, or to do an open
10	pit or an add it, or something like that, would
11	require some form of measured reserve, and at the
12	exploration stage we don't have that. Clearly
13	under the definitions we have been using today we
14	would require a licence to go to that work on a
15	measured reserve.
16	As an example, we have the Dawn
17	Lake zones on the Dawn Lake Project and it is a
18	measured reserve and I would expect we would have
19	to have a licence to go and drill it because your
20	chances of intercepting mineralization would be
21	basically 100 per cent.
22	So we have an example right on the
23	property where that next level would be achieved
24	if we went back to reevaluate the deposit or some
25	other activity on it.

1	Thank you.
2	THE CHAIRPERSON: I just have a
3	question for clarification with regards to the
4	responsibility for a notification of changes of
5	actions and moving to the next stage. Perhaps
6	first to CNSC staff and then to the applicant.
7	When the applicant, when the
8	company makes a decision to go the next stage,
9	understanding that there is further work to be
10	done and definitions of that, who is
11	responsibility is it to notify the CNSC of changes
12	of status?
13	MR. McCABE: It is my contention
14	that is the applicant's responsibility to make
15	that notification, and I think that if we
16	developed those guidelines we had a common
17	understanding that would certainly go much towards
18	helping them decide when that trigger point has
19	been reached.
20	THE CHAIRPERSON: And when is the
21	time period for the development?
22	MR. McCABE: I would suggest that
23	within the next four to six months we would have
24	that complete.
25	THE CHAIRPERSON: And would the

1	Commission be aware of those guidelines?
2	MR. McCABE: It certainly could
3	be. I would be glad to present them at a meeting
4	of the Commission for discussion so that we could
5	all gain a common understanding of that point.
6	THE CHAIRPERSON: Does the
7	applicant have a comment on that?
8	MR. WITTRUP: Yes. We have been
9	involved with this communication with CNSC
10	regarding that particular level, and we have
11	submitted letters indicating how that definition
12	might come.
13	I would also just like to
14	reiterate that as a publicly traded company we do
15	have a fairly transparent method of sort of a
16	secondary notification if we are at all tardy, and
17	the fact that we have to release material
18	information and the fact that we are moving to a
19	higher level of activity would definitely be
20	material.
21	THE CHAIRPERSON: I appreciate
22	that, but that is sort of in the economic realm
23	which is not necessarily the concerns of the
24	Commission. So I do appreciate that, but
25	MR. WITTRUP: Well, they are

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1	linked.
2	THE CHAIRPERSON: Yes. Thank you.
3	With that, I would call the end of
4	the questioning with regards to the first part.
5	
6	02-H3.2
7	Written submission from Saskatchewan Environmental
8	Society
9	We will now move to CMD 02-H3.2
10	which is a written submission from Saskatchewan
11	Environmental Society.
12	Are there any questions from the
13	Commission Members, any comments or questions from
14	the Commission Members with regards to this
15	submission?
16	Ms MacLachlan.
17	MEMBER MacLACHLAN: Thank you.
18	One of the concerns in this
19	submission is that there might be a "downloading"
20	of responsibility of CNSC to SERM and SERM is not
21	here to answer that issue for itself, but in
22	taking a look at the materials in support of this
23	application, it would seem that SERM is not
24	expected to take on any additional
25	responsibilities and, therefore, would not incur

1	any additional expenses.
2	Could I have comment on that from
3	both the applicant and from CNSC staff, please?
4	MR. JARRELL: It's John Jarrell.
5	I would say that given the limited scope and risk
6	of the activity, I think the requirement on SERM
7	is fairly modest relative to their
8	responsibilities with the uranium, the mining
9	sector anyway. So I think it's a fairly modest
10	amount of work. That's what I would say.
11	MR. HOWDEN: I will ask Rick
12	McCabe to comment, please.
13	MR. McCABE: We have a letter from
14	SERM also indicating that they have that
15	responsibility now and it's done. In the
16	guidelines it indicates that the conservation
17	officers that do some of the work with regard to
18	that and we have a letter from Sask. Labour
19	indicating that they are responsible for the
20	workers.
21	Again, I can't comment as to the
22	resources that they have available for that, but
23	they certainly do have that responsibility and
24	they acknowledge that in writing.
25	MEMBER MacLACHLAN: Thank you.

1	Just as a follow up to that. Have
2	they acknowledged have those letters of
3	acknowledgement been in just general
4	correspondence or are they related to these
5	applications?
6	MR. McCABE: Related to these
7	applications. We have asked these questions
8	specifically with regard to these applications.
9	MEMBER MacLACHLAN: Why are they
10	not part of the public
11	THE CHAIRPERSON: I would submit
12	that those are the responsibility of the staff
13	that are monitoring the project. Is that correct?
14	MR. McCABE: Yes. We wanted to be
15	able to provide that assurance to the Commission
16	that there was a regulatory regime in place, and
17	to be able to do that confidently we asked for
18	letters from both Saskatchewan Environment and
19	Resource Management and Saskatchewan Labour, as
20	to their activities with regard to exploration.
21	We tried to present that
22	information also within our presentation so that
23	the Commission would be assured of that.
24	MEMBER MacLACHLAN: Thank you.
25	THE CHAIRPERSON: Thank you very

1	much.
2	I will turn it over to the
3	Secretary now.
4	MR. LEBLANC: This completes the
5	record for the public hearing in the matter of
6	application by Cameco Corporation for the
7	revocation of its Mining Facility Removal Licence
8	for the Dawn Lake Projet.
9	The Commission will deliberate and
LO	will publish its decision in due course. It will
L1	be posted on the CNSC website as well as
L2	distributed to participants.
L3	Merci. Thank you.
L 4	THE CHAIRPERSON: Thank you very
L5	much.
L6	I would like to just take a
L7	five-minute break for change over and we will move
L8	over to the next hearing.
L9	Thank you.
20	Unon recessing at 11:06 a m