1	HEARING DAY TWO
2	COGEMA Resources Inc: Application for a Uranium
3	Mine Site Preparation Licence for the Midwest
4	Joint Venture Mining Facility Excavation Site
5	THE CHAIRPERSON: The next item
6	on the agenda is Hearing Day Two in the matter
7	of the application by COGEMA Resources for a
8	Uranium Mine Site Preparation Licence for the
9	Midwest Joint Venture Mining facility Excavation
10	Site.
11	Could I please ask the applicant
12	and staff to approach the front.
13	Pause
14	THE CHAIRPERSON: The first day
15	of the public hearing on this application was
16	held February 28, 2002.
17	The public was invited to
18	participate, either by oral presentation or
19	written submission on Hearing Day Two.
20	March 19th was the deadline set for filing by
21	intervenors and the Commission, as of that date,
22	had not received any request for intervention.
23	The Notice of Public Hearing
24	2002-H1 was published on December 3, 2001.
25	Commission Members present for

1	Day One of the hearing included Dr. Barnes,
2	Dr. Giroux, Mr. Graham, Ms MacLachlan and
3	myself. Since Ms MacLachlan is absent today,
4	she will not be participating in the decision.
5	Presentations were made on Day
6	One by the applicant, COGEMA Resources Inc.
7	under CMDs 02-H6.1 and 02-H6.1A, and by
8	Commission Staff under CMD document 02-H6.
9	
10	02-H6.1B
11	Oral presentation by COGEMA Resources Inc.
12	THE CHAIRPERSON: I note that
13	Mr. Pollock from COGEMA Resources is here today
14	to present supplementary information which is
15	contained in CMD document 02-H6.1B.
16	Mr. Pollock, you may begin.
17	MR. POLLOCK: Thank you.
18	Good morning, Madam Chairman and
19	Members of the Commission. For the transcript
20	record, I am Robert Pollock, Vice President of
21	Environment, Health and Safety of COGEMA
22	Resources Inc. I am here in support of our
23	application for a uranium mining facility site
24	preparation licence from the CNSC for the
25	Midwest Project, for which Day One of the

1	hearing was held on February 28.
2	Also with me this morning is
3	Mr. Brian Reilly of our company, who is actually
4	here for the next hearing on Kiggavik-Sissons,
5	and he has agreed to advance my overheads during
6	this presentation.
7	There were no specific
8	requirements for additional data identified in
9	the transcript of Day One, however, after
10	reviewing our responses to several of the
11	questions raised by Commission Members, we felt
12	that we should make a brief oral presentation
13	today to provide further details to some of the
14	information provided on Day One.
15	The format I will use is to
16	identify each item for which we are providing
17	further details, together with a reference to
18	the location in the Day One transcript, and then
19	provide the information for that item.
20	I'm sorry, that is the one that I
21	actually had intended to have up on my
22	introduction. Do you want to go to the next
23	one.
24	This slide lists the items.
25	On pages 19 and 20 of the

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1	transcript, in response to a question on whether
2	there have been any lost time accidents during
3	the period of nearly a decade since COGEMA
4	Resources has been the operator, I indicated I
5	didn't recall any since 1997, which covers the
6	period with which I am directly familiar.
7	I have subsequently reviewed the
8	annual reports since COGEMA Resources became the
9	operator in 1993, and consulted a colleague who
10	has held senior management positions in the
11	Saskatoon office since then. No lost time
12	accidents have been identified.
13	At the top of page 21, a question
14	was asked about downstream surface water
15	monitoring. I responded that the current
16	monitoring location, which is at approximately
17	the middle of the Mink Arm of South McMahon Lake
18	adjacent to the test mine site, shows only
19	normal background concentrations.
20	I can now add that historically
21	surface water monitoring extended to several
22	locations further downstream, certainly as far
23	as the inlet of the next lake beyond South
24	McMahon Lake. With the approval of the
25	regulatory agencies, these locations were

1 discontinued after 1993, since this was several years after the test mining period and the data 2 showed only normal results. On page 23, a question was asked about the water quality in the HDPE lined 5 settling ponds, shown in the centre of this 6 aerial photo. These are the settling ponds that 7 were used previously during the test mine period 8 9 to receive water from the water treatment plant, 10 which is the very small blue building just to 11 the right of the lined ponds. 12 These ponds were last sampled in 1997 and the results submitted to the regulatory 13 agencies as part of the process for obtaining 14 their approval for the 1997 site cleanup 15 16 program. The results were similar to previous 17 1996 results, showing radium-226 values below Saskatchewan Surface Water Quality Objectives, 18 or SSWQO, uranium elevated in one pond but below 19 20 100 micrograms per litre, and arsenic slightly 21 elevated at both ponds, ranging from about the SSWOO value of 50 micrograms per litre to 22 23 several times this amount. All of these concentrations are 24

well within the discharge limits established by

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1	the Metal Mining Liquid Effluent Regulations.
2	After shutdown of the water
3	treatment plant after testing mining was
4	complete, my understanding is that any water to
5	be pumped from these settling ponds was planned
6	to be released to the nearby unlined surge pond
7	for uncontaminated water.
8	The only instance of this which
9	has occurred since 1992 was approved in 1997,
10	after information was provided on the estimated
11	evaporation and infiltration rates.
12	Subsequently, about 5,000 cubic metres of water
13	was pumped from the two settling ponds to the
14	surge pond where it dissipated by evaporation
15	and infiltration into the ground.
16	No further pumping has been
17	required since then, as average annual
18	evaporation from surface water in the Athabasca
19	Basin typically is about equal to annual
20	precipitation. At these ponds, the dark
21	coloured HDPE liners will promote evaporation in
22	the summer.
23	In 2001, the freeboard in these
24	ponds was two metres or greater throughout the
25	year, compared to a minimum requirement of one

1	metre. There remains a small quantity of
2	contaminated sediment, about 0.2 metres, in the
3	bottom of these ponds and the conceptual
4	decommissioning plan provides for future removal
5	of this and the liners. Appropriate disposal
6	will be provided at McClean Lake Operation for
7	these materials.
8	In summary, the lined settling
9	ponds are in a stable state posing no risk to
10	the environment. It is planned to retain them
11	in this state, since it is possible that they,
12	and the mothballed water treatment plant beside
13	them, will be useful during the early stages of
14	future site development.
15	On pages 24 and 25, there were
16	questions asked about the pumping of water into
17	the flooded test mine shaft. This has
18	historically been the method approved by the
19	regulatory agencies for removal of excess water
20	from the former HDPE lined contaminated water
21	surge pond. Unlike the water treatment plant
22	settling ponds, this collection pond
23	systematically captured contaminated water
24	faster than evaporation, because it collected
25	drainage from the adjacent lined storage pad for

1	ore and special waste rock.
2	The ore and special waste were
3	transferred to McClean Lake in 1997 and the
4	cleanup of the site completed in early 1999.
5	The cleaned up area where this storage pad and
6	collection pond were located is shown in the
7	foreground of the picture.
8	A review of the annual reports
9	since 1992, and of correspondence with the
10	regulatory agencies about the site cleanup,
11	indicates that the average rate of water removal
12	was in the order of 1,000 cubic metres per year,
13	although this was not required every year. Over
14	the approximately eight years between the end of
15	the test mine period and removal of the storage
16	pad and pond, the total amount is estimated to
17	be in the order of 8,000 cubic metres.
18	Discharge to the test mine shaft
19	took place over extended periods of two to three
20	months, since dissipation of excess head in the
21	shaft was slow.
22	The shaft was constructed with a
23	concrete liner to limit water infiltration
24	during test mining, and consideration of the
25	available head difference and shaft

1 cross-section suggests a rate of water addition of 10 to 20 cubic metres per day. 2 This is consistent with the available data for amounts removed over periods of two to three months. A series of 10 samples collected 5 over the shaft depth since the Day One hearing 6 show relatively uniform concentrations of about 7 1.2 becquerels per litre of radium-226, 8 20 micrograms per litre of uranium and about 9 580 micrograms per litre of arsenic over the 10 entire depth, with no trends with elevation. 11 The test mine shaft volume of 12 about 2,000 cubic metres somewhat exceeds the 13 amounts of water removed each time from the 14 surge pond, so there would not be a full 15 16 replacement of the shaft water inventory each time. Periods of about one year, or in some 17 cases two years occurred, between successive 18 additions to the shaft. 19 20 The water displaced from the 21 shaft would mix with the groundwater, presumably 22 at the bottom of the shaft and perhaps for some distance along the horizontal drift. 23 The rate of further movement of the groundwater would be 24 slow, since the hydraulic gradient between the

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1	test mine location and Mink Arm will be low.
2	A conservative calculation of the
3	maximum potential impact on water quality in
4	Mink Arm can be made by assuming that the
5	estimated total amount of 8,000 cubic metres of
6	water discharged to the shaft, containing the
7	concentrations of radium-226, uranium and
8	arsenic measured in the shaft water in the
9	recent samples, is instantaneously transported
10	to and mixed with that portion of Mink Arm
11	adjacent to the test mine and constrained by the
12	dam. As I mentioned last time, the dam has now
13	been breached by a culvert to allow free
14	exchange of water with the rest of the lake.
15	A simple mass balance calculation
16	indicates that there would be no detectable
17	differences from normal background
18	concentrations of radium-226 or uranium.
19	Arsenic concentrations could be measurably
20	increased, but would always be more than
21	10 times less than SSWQO. Any actual transport
22	of arsenic would be much slower, consistent with
23	the observed data which shows no detectable
24	changes in the actual surface water monitoring
25	data from year to year

1	The overall conclusion is that
2	the previously approved discharge of
3	contaminated water from the lined surge pond to
4	the test mine shaft has not, and will not, lead
5	to any significant environmental impacts.
6	In summary, we believe that the
7	additional information further confirms our
8	previous statement that the Midwest site poses
9	minimal risk. As noted in our Day One
10	presentation, COGEMA Resources requests approval
11	of a site preparation licence by the Commission,
12	to continue the Midwest Project as an excavation
13	site in a care and maintenance mode for an
14	indefinite period.
15	Thank you.
16	THE CHAIRPERSON: Thank you.
17	My understanding is that the CNSC
18	Staff does not have a formal presentation for
19	Day Two but is here to answer questions.
20	Is that correct?
21	MS MALONEY: This is Cait
22	Maloney.
23	That is correct.
24	THE CHAIRPERSON: The floor is
25	now open for questions from the Commission

1	Members on this application.
2	Dr. Barnes.
3	MEMBER BARNES: Maybe two or
4	three small ones to the applicant.
5	You mentioned that looking back
6	over the issue of lost time you had your own
7	recollection and you consulted with a senior
8	colleague who had been in that position for the
9	last decade in order to retrieve the
10	information, so I am surprised that that kind of
11	information on lost time accidents isn't
12	retained in a database somewhere.
13	MR. POLLOCK: We do have
14	databases that we now are quite, I think it is
15	fair to say, consistent in ensuring that we
16	capture not just lost time accidents for COGEMA
17	employees but also for any contractor staff.
18	Historically that was not always the case if a
19	contractor reports an accident or a lost time
20	incident directly to Worker's Compensation. So
21	it is part of the contractor's records. It was
22	not historically the practice that that was
23	consistently captured by us. It is now.
24	MEMBER BARNES: On page 4 where
25	you are talking about the settling ponds and

1	they were last sampled in '97 as part of the
2	process for the '97 cleanup and there were
3	similar analyses in '96, but it is implied here
4	that there have been no further analysis since
5	'97. One might ask the question why and, if
6	not, when is the next analysis planned, if at
7	all?
8	MR. POLLOCK: There has been no
9	need or any indication that there would be a
10	need to actually remove any water from these
11	ponds. They appear to have an overall
12	evaporation loss that more than offset if
13	there is any precipitation that collects in
14	them, that falls on them, the subsequent
15	evaporation rate is quicker so there has been no
16	apparent need to sample them.
17	Clearly they would need to be
18	sampled in advance if one saw that the levels
19	were rising so there was going to be a need to
20	remove water.
21	I actually would have had them
22	sampled subsequent to Day One, between Day One
23	and now, except the little amount of stuff that
24	is in them is frozen solid, so it is very
25	difficult to get anything that would represent a

1	representative sample if you have to do it by
2	collecting ice. Certainly we would sample them
3	in future well in advance of any proposal to
4	have to remove water from them.
5	THE CHAIRPERSON: Mr. Graham.
6	MEMBER GRAHAM: A question to
7	COGEMA.
8	The first question really is:
9	There is no one at the site now. Is that
10	correct? Or is there caretakers at the site?
11	MR. POLLOCK: There is nobody
12	permanently at the site. It is visited on an
13	absolute minimum on a monthly frequency by our
14	McClean it is basically looked after by
15	McClean Lake operation. They go at least
16	monthly, more often if they are heavy rainfall
17	events in the summer or during spring snow melt.
18	Obviously on occasions when there is any work
19	that is being done there, either by ourselves or
20	by a contractor, we would bring people over to
21	supervise that work.
22	MEMBER GRAHAM: How often during
23	spring run-offs and large melts in the melt
24	and also in the heavy rain season do you
25	inspect things like the dikes and dams and so on

1	that there isn't a break in any of those that
2	there could be contamination?
3	MR. POLLOCK: There are no actual
4	dykes or dams that, I think, have any
5	implications in terms of being necessary for
6	containment of materials. We do have those two
7	ponds, but the worst incident that one could
8	visualize would be that they overflowed. I
9	believe a metre of free board the stipulation
10	is that we maintain at least a meter of free
11	board and last year there was no difficulty in
12	maintaining two. That would more than offset a
13	maximum possible of precipitation event, if I
14	recall the number correctly for these maximum
15	events.
16	So other than that, the site has
17	been cleaned up and it's essentially just
18	sitting there in a passive state. I think the
19	short answer in terms of frequency would be it
20	tends to be event-driven. If there is a heavy
21	rainfall, the Environment Department from
22	McClean would go the site. I do think that I
23	have recollection of seeing that they went as
24	often as weekly when I looked at the tables in
25	the old annual reports.

1	Again, it would depend. If there
2	has been a year like this year with not very
3	much snowfall, one could visualize it wouldn't
4	be necessary at all. I do recall seeing at some
5	times during the year perhaps as often as weekly
6	during snow melts.
7	MEMBER GRAHAM: I guess the
8	reason I'm asking that is that in one of the
9	licensing conditions, proposed licence
10	conditions, it says that "the licensee shall
11	notify the Commission within 24 hours of
12	discovering any environmental protection action
13	level". What I am coming at is if you say you
14	only go once a month, even with that 24 hours in
15	there, there could conceivably be something
16	happen that might be several weeks before
17	notification.
18	My question would be: Has there
19	been any events that have happened that have
20	given part to giving notice to the Commission?
21	MR. POLLOCK: No.
22	MEMBER GRAHAM: Also, "the
23	licensee shall also submit the results of site
24	inspection and environmental monitoring programs
25	at frequencies". How often are these reports

1	done and are they done an on annual, semi-annual
2	basis and are they up to date?
3	MR. POLLOCK: There is always an
4	annual report for any licensed facility. It has
5	a deadline date, and I believe we have met all
6	deadlines dates at all sites, certainly since I
7	have been with the company in the last four
8	years.
9	I believe we also submit a
10	monthly report for that site, but I'm not sure
11	of that. I know we submit monthlies for the
12	main sites. Certainly we have an annual report
13	that summarizes the inspections.
14	MEMBER GRAHAM: In the licensing
15	conditions, proposed licensing conditions, it
16	says: "You shall submit to the Commission by
17	March 31st of year a written annual report", but
18	before that it says, "The licensee shall submit
19	the results of site inspections and
20	environmental monitoring". It doesn't say how
21	often.
22	I think my question would be to
23	CNSC staff. How often do you require this and
24	should that be put into the condition as to how
25	often, or are you agreeable to just the once a

1	year annual report?
2	MR. McCABE: Rick McCabe. I'm
3	the Director for the Uranium Mines and Lands
4	Evaluation Division.
5	For this site because of the very
6	limited activity that is taking place, the
7	monitoring is done generally twice a year. So
8	the frequency is not specified in that licence
9	condition, but that said the way we read it and
10	interpret it is that the inspection reports are
11	submitted once they are completed. That would
12	be a trigger for the staff they would review
13	that and then based upon that maybe take
14	whatever corrective action is needed. So that
15	would be forthwith or after the inspection has
16	been completed.
17	We do not get monthly reports for
18	this facility because the monitoring is not done
19	on that basis I'm talking about environmental
20	monitoring and we get that semi-annually and
21	then summarized in the annual report.
22	Given the limited activity, we
23	find this acceptable.
24	MEMBER GRAHAM: Are you saying
25	though that every time that the company does

1	site inspections, an environmental monitoring
2	program has been carried out at whatever
3	frequency it is, then you have to report? Is
4	that correct?
5	MR. McCABE: No. We would not
6	get the inspection reports unless they were
7	reviewed on site. The monitoring reports I
8	referred to we would get an a semi-annual basis.
9	Any deficiency I mean, part of the licensing
10	and the whole process and the conditions in the
11	licence indicate that there is degradation at
12	that site and they would have to report those
13	kinds of things. A report not indicating any
14	kind of deficiency would not be forwarded to us.
15	MEMBER GRAHAM: Thank you.
16	THE CHAIRPERSON: Further
17	questions? This completes the record for the
18	public hearing on the matter of the application
19	by COGEMA Resources Inc. for a uranium mine site
20	preparation licence for the Midwest Joint
21	Venture Mining Facility Excavation Site.
22	The Commission will deliberate
23	and will publish its decision in due course. It
24	will be posted on the CNSC website as well as
25	distributed to participants.

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Thank you very much.