1	COGEMA Resources Inc.:
2	Environmental Assessment Screening
3	Of COGEMA Resources Inc.'s proposal
4	to mine and mill uranium ore from its
5	Sue E site, situated at the McClean
6	Operation in Northern Saskatchewan
7	
8	05-H13.1 / 05-H13.1.A
9	Oral presentation by
10	COGEMA Resources Inc.
11	MR. CHING: Thank you and good afternoon,
12	Madam Chair and Members of the Commission.
13	For the record, I am Don Ching, President
14	and CEO for COGEMA Resources Inc.
15	With me here today, on behalf of COGEMA
16	Resources, are Bob Pollock, to my immediate right, Vice-
17	president of Environment Health and Safety and behind me
18	is John Rowson, Director of McClean Lake Regulatory
19	Affairs and Jim Corman, General Manager of McClean Lake
20	Operations.
21	In addition, we have staff available by
22	videoconference at the CNSC office in Saskatoon, should
23	there be a detailed question that we are unable to
24	adequately deal with.
25	I am as well pleased to advise that there

1	are two of the in-scope employees also present in
2	Saskatoon from our mine site, Mr. Nesbitt and Mr. Pinger,
3	Mr. Pinger being the President of the union local
4	representing the in-scope employees at the mine site.
5	We are here today in support of the
6	screening report prepared by the CNSC staff for the Sue E
7	project and their recommendation that the Commission
8	accept the screening report and take the decision to
9	proceed to consideration of a licence application made by
10	COGEMA Resources for development of the project.
11	On the monitor is the list which outlines
12	our presentation today and since this is my first
13	appearance before the Commission, I would like to take a
14	few moments to introduce myself to the Commission before I
15	introduce the project.
16	Jim Corman will then provide a brief
17	overview of McClean Lake operation and describe the
18	proposed Sue E Project.
19	John Rowson will next describe the
20	environmental assessment approach and methodology and our
21	comprehensive stakeholder consultation process. And,
22	lastly, Bob Pollock will provide the remainder and the
23	conclusion of our presentation.
24	With regard to myself, I graduated from law
25	school at the University of Saskatchewan in 1967. After

1	practicing law in Saskatoon for four years I was named
2	Deputy Minister of Labour for the Province of Saskatchewan
3	in the fall of 1971. Part of my responsibilities as
4	Deputy Minister was to draft the labour laws for the
5	Province of Saskatchewan.

During my term the Department revised the Trade Union Act, the Labour Standards Act and the Workers Compensation Act.

It was during this time that I became fascinated by the issue of safety in the workplace. And one of the major achievements of my career, I consider, was the drafting of and the championing of the first comprehensive Occupational Health and Safety Act on the North American continent.

This legislation, the Saskatchewan Occupational Health and Safety Act, 1972 has since become the template for similar legislation in every jurisdiction across Canada. It was this legislation which, for the first time, legislated the joint responsibility of employees and managers for good health and safety in the workplace by requiring joint employee/management committees in every workplace with 10 employees or more.

It gave to those occupational health and safety committees control over health and safety in the workplace and recognized the right of every employee to

1	refuse to perform any type of work which that employee
2	might consider to endanger their health and safety, until
3	such time as the Occupational Health and Safety Committee
4	had reviewed the nature of the work and pronounced it to
5	be safe.

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I note the ensuring worker health and safety is one of the statutory objectives of this Commission and I know that COGEMA Resources prides itself on its record in this area and I can assure that as long as I am CEO we will continue to pursue excellence in the field of employee health and safety.

After the Department of Labour, I held a number of senior management positions, generally related to industrial relations and, for a time, practised law specializing in labour relations matters.

More recently and just prior to taking up my responsibilities in COGEMA Resources I was President and CEO of Saskatchewan Telecommunications Corporation, more commonly known as SaskTel. When I took up my duties as head of SaskTel it was a provincially-owned Crown corporation operating a telecommunications monopoly in the Province of Saskatchewan.

It was during my term of office that the field of telecommunications was deregulated in Saskatchewan requiring a transformation of SaskTel from a

1	monopoly service pr	covider to a	company operating i	n a
2	fully competitive,	fast moving,	telecommunications	market.

We also made the transition from provincial regulation to federal regulation under the Canadian Radio and Telecommunications Commission, or the CRTC.

2.2.

All of this took place in a period of active technological change in our industry. Despite this turbulence, I think SaskTel remains financially sound, with strong customer support and is well regarded as an employer.

I am now President and CEO of COGEMA

Resources, part of a much larger organization known as

AREVA. It is clear that those aspects of my past which I

have just been talking about remain as important in this

job as in my previous jobs.

What is somewhat newer to me is a higher profile on protection of the environment, not just during the operating period of our facilities, but far into the future. The care with which COGEMA Resources takes care of the environment determines whether we continue to have the support of the public, or government and of this Commission.

If we fail to discharge our responsibility to the environment we will be viewed negatively by all and our operations will be therefore restricted.

1	Thus, our approach is to be proactive and
2	continually striving to protect the environment and to
3	define strategies and aggressively pursue environmental
4	objectives that will ensure our long-term success within a
5	healthy environment.
6	In summary, I feel I bring to COGEMA
7	Resources a strong commitment to protect worker health and
8	safety, to maintain good labour relations, to protect the
9	environment, to ensure the stakeholders are well informed
10	and to maintain public support for our activities.
11	I would now like to move on to the Sue E
12	Project.
13	The purpose of this project is
14	straightforward, to mine the Sue E ore body and to produce
15	uranium concentrate from the ore. The project will thus
16	provide additional ore supply to the McClean Lake Mill or
17	JEB Mill, as it is frequently called.
18	The project is an extension of activities
19	already approved for McClean Lake, activities carried out
20	with high levels of protection for both workers and the
21	environment and providing positive economic employment and
22	business opportunities, particularly to Northern
23	Saskatchewan but more broadly throughout the province.
24	Development of Sue E was not part of the

original environmental assessment carried out for the

1	McClean Lake Project by the joint federal-provincial panel
2	during the 1990s, however, and that is why one is now
3	required.
4	I would like to now turn over the
5	presentation to Jim Corman.
6	MR. CORMAN: Thank you, Don.
7	For the record, I am Jim Corman, General
8	Manager of the McClean Lake Operation.
9	As outlined in our written submission,
10	McClean Lake Operation consists of three main areas;
11	namely the JEB area where the mill tailings management
12	facility and camp are located; the Sink/Vulture Treated
13	Effluent Management System and the Sue mining area.
14	This figure, which it should be noted is
15	not true to scale, outlines the general area where the
16	proposed Sue E Pit is located. It is located about 500
17	metres south of the Sue C Pit and close to the small
18	shallow Sils Lake located to the east. McClean waste rock
19	stockpile is proposed in the northwest of the Sue E Pit.
20	About 600 hectares of land has been
21	disturbed at McClean Lake Operation to date, representing
22	about 16 per cent of the current surface lease area.
23	The Sue E Project will require about 56
24	hectares of additional disturbance related largely to pit
25	development and waste rock stockpile construction and

1	about 12 hectares of wetland disturbance in Sils Lake.
2	This slide illustrates to scale the Sue E
3	Pit and associated facilities superimposed onto a
4	satellite image of the Sue site. Presently we are
5	organizing to commence mining of the Sue A Pit this
6	summer.
7	The Sue E deposit will also be developed
8	using conventional open pit mining methods. The Sue E Pit
9	design is based on extensive geotechnical slope stability
10	analysis, taking into consideration the geometric outlines
11	of the ore body, the distribution of ore within the ore
12	body topography, geology and economic factors.
13	The pit has been designed to and will be
14	operated to meet all provincial and federal regulations.
15	The mining plan incorporates the experience gained during
16	the previous successful mining of the JEB and Sue C open
17	pits.
18	The Sue E Pit is similar in depth to the
19	mined out Sue C Pit. However, it is only about two-thirds
20	the size in terms of volume.
21	The ore mined from the Sue E Pit is
22	proposed to be hauled to and processed at the existing JEB
23	Mill which is currently undergoing expansion to receive
24	and process slurry ore from Cigar Lake. Both the existing
25	mill and the expanded mill will be able to process Sue E

1				modifications	
	$\alpha r \alpha$	$T_{M}T = D$	$n \cap$	modifications	ramiiran

Mining and milling Sue E ore will result in incremental contributions to three key waste streams; they are the waste water, tailings and waste rock. These next three slides briefly discuss these incremental contributions.

With respect to waste water, Sue E Project activities will result in an additional release of approximately 3 million cubic metres of treated effluent, representing approximately three per cent of a conservative estimate of the total over the life of the McClean Lake Operation.

No changes to water treatment processes or treated effluent management procedures are expected to be required as a result of mining and processing Sue E ore.

As noted in our written submission and in our recent presentation supporting a renewal of the operating license for McClean Lake, the operation of the water treatment plants have consistently met regulatory requirements by substantial margins. The achieved results in terms of concentrations and loadings of key potential contaminants in the treated effluent have been better than predicted in the original environmental assessment.

The JEB Tailings Management Facility, or TMF, is designed for all tailings resulting from uranium

1	ore processing at McClean Lake Operation. The facility
2	incorporates numerous mitigative measures to minimize
3	environmental effects both during operations and for the
4	decommission facility over the long term.
5	About 460,000 tons of tailings will be
6	produced from milling Sue E ore, representing about 13 per
7	cent of the total projected tailings production over the
8	life of the JEB Mill.
9	No changes to the tailings management
10	system are required for preparing and managing Sue E
11	tailings.
12	Operational performance of the tailings
13	management system has been satisfactory to date and the
14	Tailings Optimization and Validation Program, or TOVP,
15	continues to demonstrate that objectives for long-term
16	performance are being met.
17	The TOVP results have been reported
18	annually to the regulatory agencies and we are now
19	compiling a comprehensive report on this five-year
20	program.
21	We have also initiated publication of the
22	key scientific work and findings in the pier-reviewed
23	scientific literature.
24	Sue E waste rock management was considered

in the context of all waste potentially to be managed at

1	McClean Lake Operation. A number of management options
2	were evaluated during the course of this assessment.
3	COGEMA Resources' preferred option provides a good balance
4	between minimizing the potential for long-term contaminant
5	flux to the environment and land disturbance related to
6	surface stockpiles while preserving mined-out open pit
7	volumes for disposal of potentially problematic materials
8	best disposed by this method.

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The assessment of disposal options has incorporated results from various waste rock characterization studies that have been completed in recent years. An investigation of the Sue E waste rock, both clean and problematic, potentially problematic, provided a comparison of results with those from other studies. This approach resulted in a sound basis for the current assessment.

Throughout the baseline and operational periods, a large amount of information has been obtained on the existing environment in the McClean Lake Operation area. In support of this EA, supplemental baseline investigations were conducted specifically at the Sue E site.

Valued Ecosystem Components, or VECs, have been identified in consultation with northern residents, specifically the EQC members. The VEC framework is used

1	to identify ecological assessment endpoints which also
2	form the basis for monitoring an assessment of potential
3	operational effects on the local environment.
4	Overall, the monitoring results indicate
5	that activities at McClean Lake Operation to date have had
6	limited effects on the surrounding terrestrial and aquatic
7	environment.
8	The documented effects are consistent with
9	or less than those predicted in the original environmental
10	assessment for the project.
11	This ends my portion of the presentation.
12	John Rowson will provide an overview of the assessment
13	approach and methodology and stakeholder consultation
14	process.
15	MR. ROWSON: Thank you, Jim.
16	For the record, I am John Rowson, Director
17	of McClean Lake Regulatory Affairs.
18	I would like to start with some general
19	comments about this assessment.
20	This assessment is somewhat unique in that
21	the Sue E Project is an additional activity that will
22	largely utilize existing facilities which are or will be
23	used for a number of other current and planned activities.
24	This means that mitigative measures and operational
25	controls are already in place and their effectiveness is

1	illustrated	by	the	operational	monitoring	and	performance
2	record.						

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Furthermore, operational and environmental performance data are available for input into predictions of future performance. This provides confidence in these future predictions.

Another important aspect of this assessment 8 is that we are able to benchmark current environmental 9 effects against the predictions from previous 10 environmental assessments.

> It is important to note that Sue E development will take place concurrently with a number of other activities which are either currently licensed or which have received government approvals following environmental assessment.

> Some potential effects are related only to the Sue E development such as the additional disturbance of surface land. However, in most cases, it is neither practical nor desirable to attempt to consider only additive effects related to the Sue E Project.

> For example, there is only one tailings management facility, the JEB TMF, at McClean Lake Operation and thus the assessment should consider the effects of the total amount of tailings to be disposed; that is, the assessment needs to determine whether or not

1	the tailings from the Sue E Project, when combined with
2	tailings from the existing and approved projects, are
3	likely to result in significant adverse effects.
4	Similar arguments apply to the
5	consideration of waste rock management and treated
6	effluent releases.
7	Thus, we have considered the overall
8	effects when determining whether the Sue E Project is
9	likely to cause significant adverse effects. We have also
10	specifically identified the incremental effects.
11	The assessment of effects involves two
12	different timeframes. These are the operational period,
13	which includes the operational decommissioning and near-
14	term post-decommissioning period and the long term on a
15	scale of thousands of years.
16	The Operational Assessment Framework
17	focuses on emissions to air and surface water. This
18	assessment integrates contaminant dispersion modelling and
19	contaminant exposure pathway modelling to estimate
20	contaminant fate and the potential exposure of and risk to
21	valued ecosystem components.
22	The Long-Term Assessment Framework focuses
23	on the potential for groundwater transport of contaminants
24	over the long term from the disposal of tailings and waste
25	rock. This assessment uses hydro-geological and

containinant transport moderning to estimate the timing and
location of any future releases to the receiving
environment.
As illustrated in this slide, assessment of
operational effects considered a variety of pathways by
which various biota, including humans, could be exposed to
potential contaminants from air and water emissions.
Emphasis was placed on incorporating site-specific
information and actual performance data in the
mathematical models used in the assessment. When combined
with a probabilistic assessment framework to address
uncertainty, a robust methodology resulted for identifying
and assessing potential effects during the operational
period.
For the long-term, both the tailings in the
JEB TMF and the waste rock in the Sue, Sue C, Sue A and
Sue E pits will be physically stable and isolated.
Groundwater, however, represents a pathway for potential
contaminant transport to surface waters. Extensive field
data acquisition, laboratory testing and modelling
programs were developed to assess the long-term effects.
In addition, sensitive analyses were
performed to account for uncertainties in the hydro-
geological and geochemical parameters.

Calculated long-term surface water

1	concentrations were compared to surface water quality
2	objectives and aquatic toxicity benchmarks. The predicted
3	results are only marginally above natural background
4	levels and well below benchmark values

In summary, extensive operational performance data and environmental monitoring data underlie the future predictions made in this environmental assessment. We are confident that this approach was technically sound.

The approach resulted in an assessment that consequently generated a limited number of comments from the technical reviewers. All comments have been satisfactorily addressed.

The results of this assessment indicated that the predicted operational effects are generally consistent with or less than those predicted in original environmental assessments. The predicted operational effects are limited to the Sink/Vulture Treated Effluent Management System. These effects are expected to be temporary and the integrity of local ecosystems and their productive capacity will be maintained. Effects in the area will be negligible after McClean Lake operation has been decommissioned and the operation ceases to exist.

Sustainable development is at the heart of AREVA strategy and COGEMA Resources is committed to

developing and enhancing social partnerships. Engaging the public in meaningful discussions, particularly those in Northern Saskatchewan, where our Uranium production activities take place, is important to establishing and maintaining partnerships.

As previously described, a wide range of public information and consultation activities are undertaken on an ongoing basis.

A focused Stakeholder Consultation Program was developed and implemented for this assessment. The primary goals were to provide information and to ensure that the environmental and health and safety questions and concerns were effectively communicated to and addressed by COGEMA Resources during the course of this assessment.

A summary of consultation activities was included in our written submission. As noted there, the annual northern community meetings in 2004 and 2005, which were extended to Saskatoon, took place while the Sue E assessment was underway. Project information and progress reports have been provided regularly to the stakeholder groups, including the Athabasca Working Group and the Environmental Quality Committee and provided in various publications which cover a broad audience.

The environmental assessment process also included two formal public review steps coordinated by

1	Saskatchewan Environment, the first for the Environmental
2	Impact Statement, or EIS, Draft Guidelines and the second
3	for the EIS itself.
4	In addition to the EIS, the review package
5	included a technical review comments and responses and a
6	CNSC draft screening report.
7	During this public review process, COGEMA
8	Resources also distributed the EIS Executive Summary to
9	all EQC and Athabasca Working Group members and to 11
10	environmental organizations.
11	This completes my portion of this
12	presentation. Bob Pollock will conclude.
13	MR. POLLOCK: Thank you, John.
14	For the record, I am Bob Pollock, Vice-
15	President, Environment Health and Safety.
16	Before concluding our presentation, I would
17	like to comment briefly on the integrated approach to
18	environmental protection that has been developed for
19	McClean Lake operation. It consists of integrating three
20	main components: environmental assessment; continual
21	improvement and adoptive management.
22	Within this framework, decisions are
23	precautionary with a degree of conservatism reflecting the
24	level of uncertainty that exists at the time the decision
25	is made.

1	We include a brief description of the
2	framework and an illustrated figure in our written
3	submission. The key point is that we are not just using
4	environmental assessment as a planning tool but rather
5	linking it to our environmental management system as the
6	basis for evaluating ongoing performance. This
7	facilitates both continuous improvement and, if necessary,
8	adaptive management through additional mitigative
9	measures.
10	In conclusion, I would like to summarize
11	our key points as follows. The proposed Sue E Project is
12	an extension of activities already being successfully
13	carried out at McClean Lake.
14	We believe that a sound technical approach,
15	making use of the operational and environmental data
16	available underlies our technical studies. We believe
17	that the stakeholder consultation process and the

that the stakeholder consultation process and the technical review process have been satisfactorily concluded. We agree with and support the conclusions of the CNSC staff.

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COGEMA Resources thus requests that the Commission accept the staff conclusions and take a decision that will allow consideration of our application for an operating licence amendment for development of Sue E to proceed.

1	We would be pleased to respond to any
2	questions which Commission Members may have. Thank you.
3	THE CHAIRPERSON: Does that conclude the
4	presentation from COGEMA Resources?
5	MR. POLLOCK: Yes, that concludes our
6	presentation, Madam Chair.
7	THE CHAIRPERSON: Thank you.
8	I would like to then, before we open the
9	floor for questions to the licensee, I would like to move
10	to the presentation from CNSC staff.
11	This is outlined in CMD document 05-H13,
12	and I will turn to the Director General responsible, Mr.
13	Barclay Howden.
14	Mr. Howden, you have the floor.
15	05-н13
16	Oral presentation by
17	CNSC staff
18	MR. HOWDEN: Thank you.
19	Good afternoon, Madam Chair, and Members of
20	the Commission. For the record, my name is Barclay
21	Howden. With me today are Kevin Scissons, Director of
22	Uranium Mines and Lands Evaluation Division; Michael
23	Rinker, Environmental Assessment Officer with the
24	Processing Facilities and Technical Support Division, and
25	the rest of our regulatory team for this project.

1	COGEMA Resources Incorporated has applied
2	to develop and mine the Sue E ore deposit and to produce
3	uranium concentrate at their McClean Lake operation.
4	In compliance with the requirements of the
5	Canadian Environmental Assessment Act, a screening
6	environmental assessment was conducted resulting in the
7	screening report which is the subject of today's
8	presentation.
9	Our presentation will ask you for your
10	decision on the recommendations in the screening report.
11	I will now ask Michael Rinker to present
12	the CMD.
13	MR. RINKER: Good afternoon, Madam
14	President and Members of the Commission. My name is
15	Michael Rinker from the Processing Facilities and
16	Technical Support Division.
17	Today I will present to you the screening
18	report for the environmental assessment of COGEMA's
19	proposal to develop and mine the Sue E deposit and to
20	produce a uranium concentrate.
21	In presenting the screening report, I will
22	briefly define or outline COGEMA's proposal. I will
23	review the environmental assessment process as applied to
24	the project. I will discuss the impacts identified in the
25	environmental assessment and whether or not the impacts

1 were determined to be adverse and significant.

I will describe the mitigation measures

that COGEMA has included as part of the proposal. I will

discuss follow-up considerations. Finally, I will make

recommendations to you with regards to the Screening

Report.

The purpose of the COGEMA proposal is to mine the Sue E deposit located at McClean Lake Operation and to produce a uranium concentrate for shipment to customers. The proposed project involves mining the Sue E ore body by open pit methods. If the project receives approval the ore would be processed at the JEB Mill and the tailings would be disposed of in the JEB Tailings Management Facility. Waste rock will be managed on site. No changes are proposed to the existing mill, the tailings and management facility or the existing water treatment facilities.

E development is an undertaking in relation to a physical work that would require authorization in the form of a licensed amendment. Therefore, the proposal is defined as a project under section 2 of the Canadian Environmental Assessment Act and there is a trigger under the Law List Regulations of the Canadian Environmental Assessment Act. The project is not of a type identified in the

1 Comprehensive Studies List Regulations of the Canadian
2 Environmental Assessment Act.

environmental effects or public concerns associated with this project that would warrant referral to a mediator or review panel pursuant to section 25 of the Canadian Environmental Assessment Act. Therefore, pursuant to subsection 18(1) of the Canadian Environmental Assessment Act the CNSC is required to ensure the conduct of a screening environmental assessment and the preparation of a screening report before the proposed approval decision can be made pursuant to the Nuclear Safety and Control Act.

The CNSC is the only federal responsible authority for this assessment. The federal authorities for the assessment have been identified pursuant to Federal Coordination Regulations. The federal authorities are Environment Canada, Fisheries and Oceans Canada, Natural Resources Canada, Indian and Northern Affairs Canada and Health Canada.

cogema was required to conduct an environmental impact assessment of the project and prepare and submit an Environmental Impact Statement to the Minister of Environment for Saskatchewan. Under the Canada/Saskatchewan Agreement on Environmental Assessment

1	Cooperation federal and provincial environmental
2	assessment processes are coordinated for projects under
3	joint federal and provincial jurisdiction. In accordance
4	with the agreement Environmental Assessment Branch,
5	Province of Saskatchewan is the lead agency for this
6	assessment. Pursuant to subsection 12.4(1) of the
7	Canadian Environmental Assessment Act the Canadian
8	Environmental Assessment Agency is the federal
9	environmental assessment coordinator for this EA. Because
10	of this the environmental assessment is being conducted
11	under both federal and provincial jurisdictions.
12	In keeping with the Canada/Saskatchewan
13	Agreement on Environmental Assessment Cooperation,
14	preparation of the Environmental Assessment Guidelines was
15	coordinated with the Saskatchewan Environment to ensure
16	that the requirements for both the federal and provincial
17	approval processes were identified and to allow
18	coordination of subsequent reviews.
19	CNSC staff, together with Saskatchewan
20	Environment solicited comments from the public during the
21	development of the Project Specific Guidelines. No
22	comments were received from the public during this
23	consultation period.
24	The Project Specific Guidelines were
25	approved by the Province of Saskatchewan and a designated

officer of the Commission and issued to COGEMA. Pursuant
to section 17 of the Canadian Environmental Assessment Act
the CNSC delegated to COGEMA the completion of technical
studies to satisfy the requirements of the EA Guidelines.
Also delegated were certain responsibilities for public
consultation.

COGEMA provided technical studies in the form of an Environmental Impact Statement, which was submitted in November 2004. The Environmental Impact Statement was reviewed by Saskatchewan Environment, CNSC staff and the federal authorities for the EA. COGEMA responded to the comments of the reviewers by issuing an addendum to the Environmental Impact Statement. This addendum was submitted in February 2005. The combination of the Environmental Impact Statement and the addendum was accepted as the final version of the technical studies.

CNSC drafted a Screening Report based on the information in COGEMA's Environmental Impact Statement and its associated addendum. Staff distributed the Draft Screening Report to federal authorities for concurrence and received concurrence from all federal authorities.

CNSC staff, together with Saskatchewan

Environment, solicited comments from the public on the

Draft Screening Report, the Environmental Impact Statement
and the Addendum. These documents were made available in

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public libraries located in Ottawa, Saskatoon, Regina,
Prince Albert and La Ronge. Documents were also provided
directly to several northern hamlets, First Nations and
specific interest groups. In addition to direct mailing
and Internet notification, comments were invited by way of
radio broadcast in Cree, English and Dene, and public
notice advertisements were placed in the <u>Saskatoon Star</u>
<u>Phoenix</u>, the <u>Prince Albert Daily Herald</u>, and the <u>La Ronge</u>
<u>Northerner</u>. COGEMA also distributed an Executive Summary
of the EIS in English. Oral transcription of the
Executive Summary was also distributed in Dene and Cree.
CNSC staff submitted the Screening Report to the
Commission Secretariat for presentation to the Commission
today.

The structure of the Screening Report is intended to serve as a framework for explaining how the assessment factors are systematically considered. The introductory chapters describe the screening process, including the application of the Canadian Environmental Assessment Act and the determination of scope of project and scope of assessment.

The purpose of the project description is to identify the specific works and activities of the project that have the potential to interact with the surrounding environment during normal operations, during

1 malfunctions and accidents. The project description also
2 includes proposed mitigation measures.

Information about the existing environment is provided in the Screening Report to establish a baseline against which environment effects, the project works and activities can be assessed. The assessment effects includes the identification of potential interactions between the project and the existing environment, the description of the resulting changes likely to occur as a result of the interactions, the technically and economically feasible mitigation measures that might be applied to each likely effect and the determination of significance of any effects remaining after the application of mitigation measures.

The Screening Report provides a consideration of the effects of the project together with those of other projects and activities that have been, or will be, carried out and for which the effects are expected to overlap in the same geographic area and time. These are referred to as cumulative effects of the project.

The Screening Report provides the consultation activities undertaken by the proponent, by the province, and by CNSC staff. The report includes a preliminary design and implementation plan for follow-up

1	and describes the approach for further developing the
2	follow-up program should the project be approved.
3	Finally, the Screening Report presents the
4	conclusions reached by CNSC staff and the resulting
5	recommendation.
6	The proposed Sue E Project would be located
7	within the boundaries of the McClean Lake operation that
8	is currently licensed. The McClean Lake operation is
9	located in the Athabasca Basin area of Saskatchewan
10	northwest of Wollaston Lake. The nearest community is
11	Wollaston Post located approximately 50 kilometers from
12	the mine site on the east side of Wollaston Lake.
13	The natural environment is described in the
14	Screening Report in terms of the aquatic environment,
15	atmospheric environment, geology and hydrogeology,
16	terrestrial environment and socioeconomic conditions.
17	The socioeconomic environment is described
18	in terms of population, economic base, land use, renewable
19	and non-renewable resources, cultural heritage, aboriginal
20	interest and health status.
21	The description of the natural environment
22	and the socioeconomic environment provide baseline
23	conditions that form the foundation for the environmental
24	assessment.
25	COGEMA provided an integrated approach to

1	this assessment which considered the Sue E Project
2	together with past, current and potential future
3	activities that could occur at the McClean Lake Operation.
4	Within this methodology, the incremental effects of the
5	Sue E Project are intermingled with other activities which
6	occur concurrently at the McClean Lake operation,
7	providing a quantitative and rigorous approach as the
8	basis for this assessment; that is, the technical document
9	provided an assessment of project activities from all past
10	activities, current operations and expected future
11	operations, together with the proposed Sue E Project that
12	is the subject of today's hearing.
13	At the initial screening, all project

At the initial screening, all project activities were examined to identify those that could possibly interact with the environment. In all, 324 potential interactions were identified.

At the second screening, each of the interactions was assessed to determine its potential for a measurable change to the environment. Among the criteria used for the second screening were regulatory standards and guidelines, scientific literature and the experience of technical specialists. Those effects that were determined to result in measurable changes to the environment were advanced to a detailed assessment which included consideration of the ability of COGEMA's planned

1	mitigation measures to reduce, control or eliminate
2	adverse effects.
3	Among COGEMA's planned mitigation measures
4	were the following: disposal of special waste in a mined-
5	out pit, disposal of tailings in the existing JEB Tailings
6	Management Facility, radiation protection measures such as
7	dust suppression, shielding, cleaning of equipment, and
8	operation of a modern water treatment facility.
9	Residual impacts are those impacts that
10	would occur after the implementation of mitigation
11	measures. Residual impacts were predicted to occur as a
12	result of air emissions, effluent release and land
13	disturbance.
14	Residual impacts from land disturbance
15	occur within the licensed area and would be remediated at
16	the end of the project.
17	Residual impacts from air emissions were
18	predicted to remain within the site boundary and below the
19	critical load for sensitive terrestrial and aquatic
20	systems.
21	Residual impacts from effluent release were
22	predicted to remain within the Sink/Vulture Treated
23	Effluent Management System. Only molybdenum was
24	identified to potentially affect muskrats downstream to
25	the Sink/Vulture Treated Effluent Management System. All

effects are predicted to reverse into the postdecommissioning period.

2.2.

This slide illustrates several aspect of the assessment. The surface lease for the McClean Lake operation is indicated by the green line. The location of the proposed new facilities, including the Sue E open pit, are shown in red and are located within the existing surface lease.

All effects related to land disturbance are also maintained within this licensed area. All effects related to air emissions are maintained with this licensed area. Most of the effects related to effluent release are maintained within the Sink/Vulture Treated Effluent

Management System coloured bright green on this slide.

Effects related to molybdenum are also predicted in the east basin of McClean Lake. Effects were not predicted further downstream in Collins Creek that passes by the Rabbit Lake mine. This has important implications towards the assessment of cumulative effects as discussed on the following slide.

Several potential malfunction and accident scenarios were considered in terms of their probability of occurring and potential effects. The scenarios included means for potential contaminant release caused by spills, leaks, power outages and system failures. The assessment

1	found at the plan design features of the project, combined
2	with the administrative controls such as audits,
3	procedures, inspections and codes of practice, would
4	address any potential adverse effect related to
5	malfunctions and accidents.
6	Therefore, there are no adverse effects
7	caused by malfunctions and accidents that are considered
8	likely that cannot be mitigated.
9	In considering the effects of the
10	environment on the project, COGEMA identified both
11	physical and biophysical conditions which might interact
12	with the project. The assessment found at the plan design
13	features of the project, combined with administrative
14	controls, would address any potential adverse effect.
15	Therefore, there are no adverse effects of
16	the environment on the Sue E Project that are considered
17	likely and that cannot be mitigated.
18	Cumulative effects are the effects on the
19	environment which result from the effects of the Sue E
20	Project when combined with those of other past, existing
21	or future projects. Cumulative effects would occur over a
22	certain period of time and space. The Rabbit Lake
23	facility is the nearest mine in the region but is located
24	beyond the reach of predicted effects. It was determined

that the only project that would potentially have effects

that overlap in time and space with effects from the Sue E

Project is the Caribou Project.

The Caribou Project is a potential future project that represents a small ore pod located within the McClean Lake facility. The assessment found that there were no adverse cumulative effects that are considered likely and that cannot be mitigated.

Other consultation activities were implemented to ensure that the public is provided with the information required to understand the environmental assessment of the project and provide comment on the findings presented in the Screening Report. The public consultation activities were shared by CNSC staff, Saskatchewan Environment and COGEMA.

The primary documents for this assessment and that were included in public consultation are: the project's Specific Guidelines, the Environmental Impact Statement representing the technical studies, the Addendum to the Environmental Impact Statement representing the technical review comments and COGEMA's disposition of these comments, the Executive Summary of the Assessment representing COGEMA's summary of their environmental assessment, and the Draft EA Screening Report representing the federal EA document that is the subject of today's hearing.

2.2.

Staff ensured that all of these documents
were easily accessible to the public and that the public
was invited to provide comments specifically on the EA
Screening Report. No comments were received from the
public on any of these documents.

As the responsible authority for the project, the CNSC has an obligation to ensure that the Follow-Up Program is designed and implemented. The objectives of a Follow-Up Program are to verify if the environmental effects of the project are as predicted and to confirm that the mitigation measures are implemented and effective in reducing, controlling or eliminating environmental effects. The Follow-Up Program for the Sue E Project is associated with the hydrogeology of the Sue E area and source term assumptions specific to the Sue E waste rock and the potential short-term risk associated with the residual molybdenum wastewater releases.

The mechanism for ensuring the development and implementation of the Follow-Up Program is the CNSC Licensing and Compliance Program. The objectives and results of the Follow-Up Program will be posted on the Canadian Environmental Assessment Registry located at the Canadian Environmental Assessment Agency website.

The Minister of Environment for the

Province of Saskatchewan provided ministerial approval for

1	the mining of the Sue E ore body at the McClean Lake
2	operation. The reasons for a decision were communicated
3	to COGEMA on the 30^{th} of May 2005. The Minister of
4	Environment concluded that the mining of the Sue E ore
5	body at McClean Lake is environmentally acceptable and
6	will not pose a significant risk to the environment in the
7	long term. The Minister also concluded that further
8	public review under the Provincial Environmental
9	Assessment Act is not necessary.

CNSC staff and other federal departments have reviewed the environmental assessment documentation, including the proposed mitigation measures. On the basis of this review, CNSC staff concludes that the proposal to develop and mine the Sue E deposit and to produce uranium concentrate, taking into account the mitigation measures, is not likely to cause significant environmental effects.

CNSC staff recommends that the Commission accept this conclusion and proceed with the course of action consistent with paragraph 20(1)(a) of the Canadian Environmental Assessment Act. That course of action would be consideration by the Commission under the Nuclear Safety and Control Act of the application by COGEMA Resources Inc. to develop and mine the Sue E deposit and to produce uranium concentrate.

This concludes my presentation. Thank you.

1	MR. HOWDEN: Madam Chair, that concludes
2	the staff presentation. We are ready to respond to
3	questions.
4	THE CHAIRPERSON: Thank you. As such,
5	then, the floor is now opened for questions. May I start
6	with Mr. Graham?
7	MEMBER GRAHAM: Thank you. My first
8	question in that presentation, the Caribou Project is not
9	part of this. It is mentioned but it is not part of this;
10	is that correct? That would be for the CNSC staff.
11	MR. RINKER: Mike Rinker, for the record.
12	The Caribou Project was identified as a
13	potential future project. It has not been part of this
14	project.
15	MEMBER GRAHAM: Thank you. That was just
16	for clarification.
17	My first question is to the officials of
18	COGEMA with regard to your method of mining. In the past
19	you have always used a method of mining pits and perimeter
20	roads and excavation that way.
21	Has all of the EA study been focused around
22	that type of mining or could you use conveyor systems to
23	bring the ore body out which probably would be cheaper and
24	so on if you brought conveyors and so on? Can you use
25	whichever method you want or is it strictly to use the

1	methods you have in the past or past experience?
2	MR. POLLOCK: I will ask Jim Corman in a
3	moment to elaborate on your question, but the short answer
4	is we plan to use open pit mining, the same as has been
5	used to date at McClean Lake and, I might add, at the
6	other uranium mining operations in the Athabasca Basin. I
7	am not aware of any conveyor-type systems of tar sands
8	type of operations, for example. In northern Saskatchewan
9	uranium mining has been open pit right across the board.
10	MEMBER GRAHAM: I was referring to still
11	being an open pit but using to get the ore from the
12	bottom of the pit to the ground level and to the
13	stockpiles to get it in the form of a conveyor but that is
14	not your intention.
15	MR. POLLOCK: No.
16	MEMBER GRAHAM: Your intention would be to
17	use the same conventional way?
18	MR. POLLOCK: Yes, we are all truck and
19	shovel. I can ask Jim to elaborate. I am getting a
20	little off my area of expertise here when it comes to
21	mining operations.
22	MR. CORMAN: Jim Corman, for the record.
23	Yes, we are a conventional open pit truck
24	truck/shovel operation. The removal of material from the
25	pit itself, primarily the ore material, in using the

1	conveyor system, you end up double handling the ore and
2	with higher grade ores, you want to minimize the amount of
3	additional material handling.

was reading through the documentation was with regard to - there is really three types of material you are taking
off. You are taking off the overburden first and then you
are taking off the waste material and then you are getting
into the ore which would be a different type.

You are going to put the first two stages into Sils Lake. I don't think I am pronouncing that right, Sils Lake. If you take the vegetation off and use that for the last part to put back on, really, that is going to be in the bottom of the lake or the bottom part. Will that be segregated or is that going to be kept in such a way that it would be in a separate stockpile?

MR. POLLOCK: We will place the overburden material from the Sue E pit in Sils Lake. The clean waste rock will actually be stockpiled on the other side of the pit from Sils Lake. On one of the illustrations there is an area showing where the clean waste rock will be stockpiled. So the overburden will be placed in Sils Lake.

I will ask Jim to confirm and elaborate a little bit, but I believe the actual organic material is

1	going to be further segregated and kind of stacked on the
2	end of the overburden or at the end of the overburden pile
3	so that it will it is good stuff when you come for
4	reclamation down the road. High organic content soils are
5	not very prevalent there. So we like to try and stockpile
6	it when we can for future reclamation, but I will ask Jim
7	to confirm that.
_	

8 MEMBER GRAHAM: Well, that was my question.
9 It will be kept separate.

I guess before he does answer it, my other question would be if it was in the lake and being the type of material it is, not a rock and so on, sediment may disperse through all of the lake. I was wondering, to make sure that it didn't do that, how you are going to do it and maybe you could explain?

MR. POLLOCK: The short answer is we hope to be back in about two weeks to talk in a little bit more detail about this initial work, but I will ask Jim. So we don't have any good graphics with us today to illustrate this, unfortunately. I will ask Jim to elaborate verbally.

MR. CORMAN: Jim Corman, for the record, again.

I terms of segregating out the organic material from the till material, the till is essentially

1	glacial till, relatively impermeable type of material that
2	you can take and put into the lake and it will have
3	minimal dispersion into the water itself. The Sue area,
4	Sue E area itself on the west side of the pit is actually
5	a little bit higher topography. So that is where we will
6	start the stripping activities of the till to build a base
7	in Sils Lake. So we will start on the high end of the
8	topography where there isn't much for organics and that
9	will go into Sils Lake and then we will strip off the
10	organics, place that on top of the till in the north end
11	of Sils on top of the glacial till and then continue the
12	stripping.

MEMBER GRAHAM: The other question I had with regard to displacement in Sils Lake, your water treatment capacity can handle the displacement of the water as it is treated and so on. Your existing water treatment capacity can handle that?

MR. POLLOCK: Yes. It is not a big lake and we have lots of water treatment capacity.

MEMBER GRAHAM: One further question I have and that is with regard to the presentation. It is on Section 2 and it is with regard to the -- if you go with the Option 1B in Sue E the maximum mass flux of arsenic released from both Sue C, A and E is about 616g per day, which is gallons I presume.

1	Is that an acceptable treatable amount? I
2	guess my question would be to CNSC staff. Is that a
3	reasonable amount that can be treated easily?
4	It is Volume 1, page 204 and it is COGEMA's
5	Amendment, and I don't know whether but it is referring
6	to 616 gallons per day of release and it is with regard to
7	Appendix B. I am sorry. It is Appendix B of COGEMA'S
8	presentation.
9	My question is that an alarmable amount or
10	not or is that an acceptable amount that can be treated?
11	(SHORT PAUSE)
12	MEMBER GRAHAM: Have you found it? It is
13	Appendix B and it is headed "Federal Comments" and it is
14	"Addendum". That is in the Addendum. I am sorry. It is
15	page 204, version 1 and it is, "Long-Term Effects Related
16	to Waste Rock Management".
17	MR. HOWDEN: Barclay Howden speaking.
18	I will ask our geoscientist specialist,
19	Peter Flavelle, to respond to your question.
20	MR. FLAVELLE: Thank you, Mr. Howden.
21	For the record, I am Peter Flavelle.
22	First, to clarify, the units "g per day"
23	refer to grams per day, grams of arsenic, okay. This is
24	referring to predictions of releases of arsenic far into
25	the future from the waste rock placed in the Sue C pit and

1	the Sue E pit under their option. It is not material
2	which anyone would be around to treat. This would be
3	released into the groundwater system and would eventually
4	over several thousand years make its way into Collins
5	Creek and the McClean Lake area.
6	The amount that they estimate here is less
7	than the amount that was estimated in the last versions of
8	environmental assessments for this area which was for
9	disposal of Cigar Lake waste rock in the Sue C pit.
10	Because of changes with these options that they are
11	proposing, the actual amount of arsenic they are
12	predicting to be released is diminished. So this is not
13	material that would be treated and it's being predicted as
14	being of a lesser impact by adopting this option.
15	MEMBER GRAHAM: In other words, then, the
16	616 and I apologize for my not understanding that
17	but grams per day is not an alarming amount and it is a
18	treatable amount or it is an amount that can be absorbed
19	into the environment and so on?
20	MR. FLAVELLE: For the record, Peter
21	Flavelle, and that's correct.
22	THE CHAIRPERSON: Mr. Taylor.
23	MEMBER TAYLOR: Thank you, Madam Chair.
24	A general comment or question about these
25	federal and provincial comments which are properly

presented and their responses presented, but have either CNSC or COGEMA received any feedback from the people who made the original comments?

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The short answer is that as MR. POLLOCK: we are dealing with these comments, we tend to have discussion back and forth with the actual person or group that the comments came from both to make sure that we understand what the question that we are responding to and that our response is on target. The formal conclusion of this process is we actually received a letter both to make sure that we understand the question that we are responding to and that our response is on target. And the formal conclusion of this process is we actually received a letter -- in this case it came from the provincial environmental assessment group because they are the lead in terms of the formal process -- essentially a letter confirming that the technical review was concluded and that it was now technically acceptable and the process can move ahead to the public review step. So there is actually a formal marker in addition to the informal discussions.

MEMBER TAYLOR: Thank you.

Further on in one of the other documents you were talking about open pit mining and its advantages and a point is that it provides greater distribution of

1	socioeconomic	benefits	to	northern	Saskatchewan	than
2	underground ma	ining meth	nods	S.		

2.2.

Could you expand on that? Why is that?

MR. POLLOCK: Bob Pollock, for the record.

I guess I have been neglecting to introduce myself before previous answers.

Basically, the open pit mining involves a lot of use of heavy equipment, trucks and other types of heavy equipment. And northerners, northern residents have a good aptitude for that and also have the sort of qualifications that you are looking for to enter into training programs, whereas with underground mining there is good progress being made -- I digress a little -- but Tyson Mining, for example, is making good progress on recruiting and training northerners in underground mining at some the CAMECO sites. But, historically, the underground miners tend not to be -- there tended not to be too many northerners that were underground miners.

So it has been a bit of a long road to travel to both attract them and to train them, plus there is clearly perhaps more skilled trades and there still aren't a lot of northern journeymen tradesmen, millwrights, mine electricians, et cetera. So if you look at the skills you need, they are better served — they are more easily met by the existing northern labour force than

1	the underground.
2	MEMBER TAYLOR: Thank you. And my final
3	question illustrates clearly my lack of experience in this
4	area.
5	What are tremie placement of tailings?
6	MR. POLLOCK: Bob Pollock, for the record.
7	I will give you a simple answer and then I
8	will ask John to elaborate a bit.
9	It is basically placing material in this
10	case tailings but I believe it originates from concrete
11	where, if you are placing concrete under water you stick
12	your pipe down into the existing pool of concrete, as
13	opposed to discharging into the water column. And I will
14	now ask John to confirm if I got it more or less right.
15	MR. ROWSON: I don't think I need to add
16	any more. It is a term that is frequently used in the
17	concrete construction business and it is a way of more
18	controllably distributing place concrete where you want
19	it through the form of a pipe that is the end of which
20	is immersed in a pool of concrete and you direct the
21	concrete flow into all the nicks and corners of your
22	forms, using this tremie technique.
23	MEMBER TAYLOR: Thank you.
24	THE CHAIRPERSON: Dr. Dosman?
25	MEMBER DOSMAN: Thank you, Madam Chair.

1	My first question is for COGEMA and, Mr.
2	Ching, I realize that you are relatively new in the
3	position, but I am just wondering if you could comment on
4	the commitment that you see in the AREVA Board, your
5	owner, and in your Board, on the commitment to the
6	environment and specifically within COGEMA how you ensure
7	that these goals are met.
8	MR. CHING: Well when I sorry, Don
9	Ching, for the record.
10	When I was being considered for this job
11	one of the things that I sort of felt around on, so to
12	speak, was the approach which COGEMA and its parent,
13	AREVA, took with regard to issues like employee safety and
14	industrial relations. Those issues have been important to
15	me over my life.
16	I also, perhaps a little less aggressively,
17	looked at the approach taken by COGEMA and its parent
18	directed towards environmental issues.
19	I must say that when I was looking at those
20	things I was very pleased with the approach taken by the
21	company. It has, in my mind, a very positive attitude on
22	those issues. It has built into its operating structure
23	methods of encouraging improvement in those areas on the
24	part of its actual operating entities.
25	A thing called "The AREVA Way" is a process

1	of continually forcing the operating entities within the
2	AREVA group to endeavour to improve through self-
3	examination and through setting of targets, all of their
4	performance in the areas of industrial relations, safety
5	and environmental.
6	So from my vantage point, one of the things
7	that attracted me very strongly to COGEMA and the AREVA
8	group was those characteristics within their corporate
9	structure. And I have not been the least bit displeased
10	in what actually takes place within the company in that
11	regard because I continually see devices used by the
12	company and by individuals within the company to prompt
13	improvement in all those areas. And I find it really a
14	comfortable framework within which to work.
15	MEMBER TAYLOR: Madam Chair, I wonder if I
16	just might pursue this?
17	How do you, Mr. Ching, ensure that the
18	message gets down to the actual operations, both within
19	the company and specifically to contractors on the
20	operations?
21	MR. CHING: Well, first of all Don
22	Ching, for the record.
23	First of all, I think it is my
24	responsibility and those of the rest of the management
25	team to constantly be going to site and to talking with

1	our employees, both management and in-scope employees.
2	And some of those issues have to be continually talked
3	about because I think that one of the things which the
1	senior management team does is to paint the framework for

driving that sort of an agenda.

I think it's not only our responsibility to make sure that we within COGEMA try to improve in areas of labour relations and safety and environmental protection, but we have an obligation to make sure that all of the people who are our surrogates by coming to the mine site to assist us and to perform functions for us, that they bring those same set of attitudes.

I guess the only thing you can do, really, is to roll up your sleeves and make sure that you are in constant contact with your employees and your on-site management team and to make sure that you are in contact with the companies that come on site as your subcontractors, to promote those objectives.

MEMBER TAYLOR: Thank you.

I wonder if I might ask another question and I am not sure to whom -- perhaps Mr. Pollock, or to yourself -- I wonder if you would be willing to summarize the steps that you are taking now in the planning that will be useful to you in the decommissioning, sort of in the light of lessons learned?

1	MR. POLLOCK: Bob Pollock, for the record.
2	Well I think it starts with the document
3	that you are in fact, it started many years ago, if I
4	go back to the original environmental assessments for
5	McClean Lake and their successor, including this one, that
6	decommissioning is clearly part of that environmental
7	assessment. It is not looking just at the
8	construction/operation of the facility, it is looking at
9	the decommissioning. And I would be hard pressed to
10	justify what percentage of the effort an estimate of
11	what percentage of the effort has gone into looking at the
12	long-term management of waste rock and tailings, but it is
13	certainly substantial. I would suggest it is probably the
14	there is probably more time spent on those topics than
15	on the operational considerations.
16	So we have looked very hard at what you do
17	with the tailings, what you do with the waste rock, so
18	that you do not create a long-term environmental issue.
19	In our case there were a number of
20	questions or issues about tailings performance. We have
21	put a major program, the Tailings Optimization and
22	Validation Program that has run five years, where we are
23	just in the process of writing a major five-year report to
24	sum it all up to confirm that we actually understand the
25	basis of long-term tailings, both geochemistry and

So that that is certainly one major area.

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found it.

There are other things you do. If I look at the new sites in northern Saskatchewan, McClean, McArthur, Cigar we have actually gone to a -- it is almost like a regional processing approach so that all you have got at many of the new sites now, McArthur, Cigar, Midwest and future is a mine. We continue to use the existing mills and waste management facilities at the existing sites so that the footprints of these new mines will be

The footprints were also quite small at -you know, we are already doing restoration work in terms
of disturbed areas at McClean; that if the use has already
been made, one can do reclamation on a progressive basis.

very small and after decommissioned, there is essentially

no waste left at those sites -- put it back the way we

And certainly in terms of the operational part, we don't ignore it. The major item is the control of the liquid effluent, treated effluent releases and we have talked at some length so I won't repeat it this afternoon, on setting, you know, administrative levels that are much less than the actual regulatory limits or the formal action levels so that if we go outside these administrative levels, then action is required of the

1	operator.
2	So we want to run at the optimum
3	performance of the water treatment plants and minimize the
4	releases into the aquatic environment, not simply meet the
5	regulatory limit but run at optimum performance.
6	We do all of this within a framework of a
7	very comprehensive quality management system to ensure
8	that we have both you know, we have consistency in our
9	operations and defined processes and last but not least,
10	we have quite substantial financial assurances on the
11	table, so if we don't deliver, the money is there for the
12	government to come and do the job in any event.
13	So that was the short answer. If you would
14	like the long answer, just let me know.
15	(LAUGHTER)
16	MEMBER DOSMAN: The short answer is fine,
17	Mr. Pollock. I'm just wondering, Madam Chair, if I might?
18	I take it that the overburden stockpile is
19	really a way of providing a dam between Sils Lake and Sue
20	E. Is that do I have it right? I know that Mr. Graham
21	explored this question. Is that right and does that
22	represent an unreasonable environmental risk to the small
23	Sils Lake?
24	MR. POLLOCK: The short answer is no. This
25	EA is predicated on the north end of Sils Lake being

1	filled in. I mean, you could stockpile you do want to
2	segregate the overburden because eventually you're going
3	to want to reclaim it and reuse it during restoration and
4	reclamation activities.
5	In this case, it needs to be stockpiled in
6	the north end of Sils Lake to provide a solid barrier to
7	provide safety in the adjacent pit as we mine it.
8	MEMBER DOSMAN: Madam Chair, I would ask
9	CNSC staff, taking that this is a combined approach
10	between Saskatchewan environment and CNSC, I would just
11	like to ask you very briefly to outline the steps that
12	have been taken to conduct these steps jointly and how the
13	process has gone.
14	THE CHAIRPERSON: Since I was going to ask
15	a query to that, I'll come back to the proponent and ask
16	how they think that process went at the end. So I'll let
17	you think about that while the first part is being
18	answered.
19	MR. RINKER: Mike Rinker, for the record.
20	To start off, this is an established
21	process. It was not the first time we have gone through
22	this process. I could go through the steps perhaps of how
23	we work together.
24	The first step would be to determine

whether there were environmental assessment requirements

or not. That was conducted independently. When it was
determined that both the province and Canada had
environmental assessment requirements for this project,
then we started working jointly together.

The province took the lead on the environmental assessment guidelines as they are the lead for the entire assessment up and to the point of decision, whether or not, you know, we're separate again. The province provided draft guidelines to us. We distributed them to federal authorities and provided our comments, and the guidelines in the end, I think, became quite sound where everyone's requirements were included as opposed to substituted. So they are good guidelines.

There was only one technical document provided for both processes and it satisfied both processes, so that was quite efficient. We had essentially an extra team of reviewers on the province's side, so we had a comprehensive review of the document over and above what we normally would have.

The province's consultation process or technique is slightly different than ours which required again an additive effect where we felt that public consultation was extremely thorough that included not only our Screening Report but also on the technical documents which is the province's requirement.

1	After the documents were accepted by both
2	the province and by us as a responsible authority, then we
3	went into the processes for a decision and that's where we
4	departed. And CNSC staff worked independently for the
5	preparation of the Commission Member Document and for this
6	hearing today, and the province went separately for their
7	ministerial decision, but the process itself I thought was
8	very well done.
9	MEMBER DOSMAN: Thank you, Madam Chair. I
10	planned to ask, in reference to your question, to COGEMA,
11	I'll explain the question. I planned to ask that if
12	there is a member of Sask Environment either here in the
13	audience or by teleconference in Saskatoon to have their
14	view on this process and I would be happy to ask that
15	question either before or after the question that you
16	posed to the proponent.
17	THE CHAIRPERSON: Let's ask the proponent
18	first and then there will be some checking on Sask
19	Environment. I don't think there is anyone there so we
20	will have to leave that for a future time to Mr. Ching.
21	MR. POLLOCK: Bob Pollock, for the record.
22	I think if one looks at it from the overall

question of process and from the starting point that the

legislative requirements that exist through the Canadian

Environmental Assessment Act and which fall on the

23

24

1	Canadian Nuclear Safety Commission as a responsible
2	authority when there is a trigger and the legislative
3	requirements that exist in Saskatchewan through the
4	Provincial Environmental Assessment Act, if you look at a
5	process that because at the end of the day, one has to
6	meet those legislative requirements. That is not even a
7	question.

So the process, I think, works quite well in terms of meeting everybody's requirements and I think this word "harmonize" is perhaps misunderstood in the sense that out of "harmonized" people perhaps jump to the conclusion that there is just sort of one process or one EA and that is not true because there are separate legislative requirements and both have to be met.

You need a process that meets everybody's requirements in as efficient a way as possible. And the process seems to do that quite well. If one looks back, with the wisdom of hindsight there is perhaps areas here and there where one might make it work a little bit quicker but that's more a matter of incremental progress out of experience than any fundamental change to the process.

We, for example, are working at minimizing the amount of time between the day that we receive the formal guidelines and the date that we put our EIS on the

1	table.	This past time,	, it was	about 60	days. There is no
2	reason	why we couldn't	do that	somewhat	quicker in future.
3		I'm not	sure	I'm well	satisfied with

I'm not sure -- I'm well satisfied with what was achieved this time but -- so one can see possibilities to perhaps make some of these incremental -- you know, make incremental progress on the timeline here and there but I'm hard-pressed to flowchart out a different process that would be any better, unless there were some quite formidable changes to the governing legislation itself, something that actually from a legislative perspective dealt with some of the sort of structural issues. Given the structural issues that are there, the process was quite good.

14 MEMBER DOSMAN: If I asked a question --
THE CHAIRPERSON: One more question and

then we'll move on ---

MEMBER DOSMAN: Thank you.

Well, when there are two agencies, it is kind of like getting two disciplines on a PhD thesis from students. Sometimes you get duplication or you get sort of an excess number of requirements, or the requirements are nearly but not quite the same and it results in a lot of extra work and so on and I just wonder if this -- I mean in this process, we want to make sure both, I guess, that it's thorough and that the environment is adequately

1	protected	but	also	that	it's	flexible	and	optimally
2	workable.							

So would you comment on that aspect of the process being as a -- how two jurisdictions really need to be happy with the outcome?

MR. POLLOCK: Bob Pollock, for the record.

I suppose if this was a perfect world one could perhaps design an environmental assessment process where you only had one EA process that satisfied all comers, but given that there are separate and distinct legislative requirements, we deal with what we have to deal with as opposed to some imaginary process that might be better.

I mean one example of -- and I think that all of the people involved, it is not like they are strangers to each other so there is a good history of cooperation and communication.

If you look at how we handled the questions that came out of the technical review, we actually do the federal questions and we do the provincial questions, and that's because the province does theirs by sort of a ranking of type 1, 2 and 3. The federal ones tend to come by whichever federal authority has authored the questions without being ranked in a similar way to the provincial system.

1	And you might think, "Well, why doesn't
2	somebody like the EA coordinator combine all these things
3	and just give you one list?" And I can tell you from pas
4	experience it is faster just to take the questions and si
5	down and answer them, and if you find that you're giving
6	the same answer a second time, well, just cross-reference
7	back to the first one.
8	So yes, there is maybe little things you
9	could tinker with, but some of these people are strangers
10	and they communicate well with each other.
11	MEMBER DOSMAN: Thank you.
12	THE CHAIRPERSON: Dr. Barnes.
13	MEMBER BARNES: Thanks.
14	Just a few questions. You have a section
15	dealing with pit wall instability, and this has happened
16	on a number of pits in Saskatchewan.
17	You don't see any significant problem with
18	pit wall instability here in this pit in the Sue E?
19	MR. POLLOCK: Bob Pollock, for the record.
20	I won't even speculate on that. I'll just
21	ask Jim to reply directly.
22	MR. CORMAN: Jim Corman, for the record.
23	Sue E is geologically a very similar
24	setting as to the two previous pits which we have mined,
25	the JEB and the Sue C pit.

1	Prior to finalizing our pit design on Sue
2	E, we brought a consultant to site and did four
3	geotechnical holes, slope stability holes, studies of the
4	ground that was intersected in those holes, a review of
5	the geology of the area, a review of the experience that
6	we had from our Sue C pit and then consequently designed
7	our pit slopes for Sue E, taking those factors into
8	consideration.

Ultimately, on Sue E we have come back with a more conservative design than our Sue C and JEB pits, some flatter slopes in some of the areas that have given us some problems in the past.

Through our experience at mining, we have modified some of the things that we're doing in terms of blasting techniques and wall stability work. So we feel the combination of the things that we have learned from our existing pits, the design of this pit with flatter slopes and the fact that it is also a smaller pit that we will be in and out of in a shorter period of time than the Sue C pit will be beneficial to us and we don't anticipate problems.

MEMBER BARNES: In and out from a mining viewpoint. But still, you want to use Sue E for a repository for other waste. So you don't want it to fill in and occupy that space.

1	MR. CORMAN: That's correct. The design of
2	the pit itself is for the long term. Operationally, when
3	you have got people in there working at the bottom of the
4	pit that's when you have the most concern.
5	When we are placing waste rock back into
6	the pit, we will be working at higher elevations.
7	MEMBER BARNES: I'm not sure how would
8	you say that the diagrams you presented in terms of the
9	area of Sue pit are pretty accurate or are these sketches
10	at this point?
11	MR. CORMAN: The slide with the satellite
12	photo is a representative photo to scale.
13	MEMBER BARNES: Let's say Figure 6.2 which
14	is fairly detailed. It shows Sue E pit, the temporary
15	overburden, stockpile and Sils Lake, Figure 6.2.
16	(SHORT PAUSE)
17	MR. CORMAN: That's Figure 6.2 in what
18	document, sir?
19	MEMBER BARNES: I guess it's attached to
20	the CEAA Screening Report, just after page 92. It's with
21	all the coloured diagrams.
22	MR. CORMAN: Yes, that is an accurate
23	representation.
24	MEMBER BARNES: So when you have removed
25	the temporary overburden into that stockpile and partially

1	filled in Sils Lake but you have disturbed the
2	stockpile so it has a different geotechnical property.
3	You have still got it, as I read it there, abutting a
4	certain amount of the Sue E wall.
5	Do you see any potential for a slumping of
6	the overburden back into the pit? Do you see any
7	possibility of leakage from Sils Lake through the
8	overburden to replace the overburden?
9	MR. CORMAN: Jim Corman, for the record.
10	For those assessments we currently have
11	just completed a geotechnical assessment. We have dug
12	some additional test pits around the perimeter of Sils
13	Lake and some additional geotechnical samples of the till
14	from Sue E, and we are currently waiting on the
15	consultant's report on that.
16	We certainly don't anticipate the
17	overburden material in this area compacts quite well, is
18	relatively impermeable and leakage is certainly a
19	possibility but we don't anticipate a significant issue
20	with it.
21	MEMBER BARNES: Okay. I was interested in
22	your Option 1b which is, I think, fundamental to what
23	we're talking about here, the disposal of the waste, and I
24	wonder if you could just walk us through it a little bit?
25	This is on page 97, just a few pages past the last diagram

1	that I was referring to. So it's Figure 6.6, "Waste Rock
2	Placement in Sue C/A Pit" Option 1b.
3	MR. CORMAN: I have the figure ahead of me
4	here.
5	MEMBER BARNES: Yes, first of all, at page
6	313 of COGEMA's document you refer to problematic special
7	waste. What did you mean by problematic special waste?
8	MR. CORMAN: Jim Corman, for the record.
9	MEMBER BARNES: That's below the 410 level.
10	MR. CORMAN: What we have identified is
11	there is the potential for material below the 410
12	elevation in the Sue E pit that could have elevated
13	sulfides associated with it. That material if left on
14	surface could cause acid generation problems. So that's
15	what we have identified. Below that elevation there is
16	the potential and certainly, as you get closer to the ore
17	body, a higher potential of intersecting that material
18	which can be problematic.
19	In some cases, there is elevated sulfides
20	associated with this material without uranium associated
21	with it. So it's a little bit more difficult for
22	separating out. So what we're proposing is material below
23	that elevation to go directly into the Sue C pit.
24	MEMBER BARNES: Okay. In the Figure 6.6

where you show three cross-sections through the Sue C/A

1	pit, what is the elevation of the Precambrian Athabasca
2	contact there? Is this a critical level? You keep
3	referring to certain elevations, here the 418, 410 and so
4	on for the certain level that you are building, that you
5	in-filling the pit to. Is this tied to that particular
6	horizon?
7	MR. CORMAN: No, not necessarily. There is
8	some material up in the sandstone that is problematic
9	material as well in the E pit. The cross-section on the
10	Sue C pit, our contact between the sandstone and basement
11	rock is around the 390 elevation, 380 to 390. It varies
12	throughout the pit.
13	MEMBER BARNES: Let me put it another way.
14	In the cross-sections that you show in 6.6 and in Option
15	1b, what is the magic about what would it be, just
16	below 430, the level to which you fill this?
17	MR. CORMAN: The 430 elevation is the
18	elevation that takes us with the fill of the materials
19	going into C pit, including the Cigar Lake waste rock. If
20	we place problematic material in the Sue C pit above
21	significantly above that elevation there is a potential
22	then on a groundwater basis to affect the groundwater
23	regime and short circuit up to some of the surface lakes.
24	MEMBER BARNES: So in this pit, could you

remind me again what is the contact level of the Athabasca

1	sandstone and Precambrian in the Sue C/A?
2	MR. CORMAN: In Sue C it's around the 380
3	to 390 elevation.
4	MEMBER BARNES: So are you using the same
5	principle of enough wells to pump out any contaminates; is
6	this right?
7	MR. CORMAN: No, there's no wells around
8	the Sue site.
9	MEMBER BARNES: Okay. And so there is no
10	danger of materials from the material you are putting in
11	the pit, which contains problematic material from, in a
12	sense, leaking out into the Athabasca sandstone, which is
13	
14	MR. POLLOCK: Bob Pollock, for the record.
15	We've done the modelling of the long-term
16	performance looking at what could be the potential amount
17	of soluble contaminates, and arsenic tends to be the key
18	one, in the pore spaces in the waste rock and what's the
19	long-term transport of that over to the it moves in the
20	direction of Collins Creek. And the numbers that are I
21	think, they're on page 92 of no, sorry, I have the
22	wrong page here. It will take me a moment to find it. I
23	can recall the numbers. The maximum long-term predictions
24	were about 0.3 micrograms per litre of arsenic in Collins
25	Creek in thousands of years from now, and that compares to

1	50 micrograms per litre as the Saskatchewan surface water
2	quality objective and five as the Canadian Water
3	Guideline.
4	So yes, there is some very long-term
5	transport of potential contaminates from the waste rock
6	placed in these pits. When you put it underwater that
7	clearly cuts off the oxygen so acid generation is not an
8	issue, but there is some movement of potential
9	contaminates over the very long term, but not at
10	concentrations that are going to represent any significant
11	risk to the aquatic environment.
12	MEMBER BARNES: Unless you're operating in
13	a pit concentration of so-called problematic special waste
14	and putting this at an elevation above the significantly
15	porous Athabasca sandstone, you're driving groundwater
16	around this pod of problematic waste, for which you're
17	saying there is going to be very little transport of that
18	material away from that burial site.
19	MR. POLLOCK: Yes. Bob Pollock, again, for
20	the record.
21	Yes, what we're saying is that the amount
22	of transport that takes place is not significant in terms
23	of its long-term impact on the aquatic environment.

Mr. Flavelle perhaps to confirm that as a particular model

1	and to suggest why that would be the case?
2	MR. HOWDEN: Barclay Howden speaking.
3	I will ask Peter Flavelle to reply.
4	MR. FLAVELLE: For the record, my name is
5	Peter Flavelle.
6	The modelling that was done for this
7	project is an extension of the modelling which has been
8	developed over the last several years by COGEMA for these
9	sites.
10	Essentially what happens is these pits will
11	become flooded with the lake on top of the waste rock, and
12	because, of course, the permeability of a water column is
13	infinite compared to the permeability of the waste rock,
14	the real issue then becomes how much of the waste rock is
15	placed against the source of the water along the pit wall.
16	And has been pointed out in this discussion, the higher up
17	you are against the pit wall the more the groundwater
18	seeps into the waste rock and into the pit lake and
19	subsequently out.
20	Because of the difference in permeability
21	though, not as much ground water goes into the waste rock,
22	as being diverted upward directly into the lake, and the
23	water balance that is calculated is in the order of 15 to
24	20 per cent of the water going through the lake actually
25	goes through the waste rock, and most of it goes through

1	the	lake	and	dilutes	what	is	released	from	the	waste	rock.
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The result is that the mass of arsenic and other contaminates which is released from the pit is sufficiently low that, as pointed out, by the time it reaches Collins Creek and a receiving water body it is well below water standards and objectives.

MEMBER BARNES: Just a separate more philosophical topic. But in many places within the COGEMA document you refer, for example, on page 8-1 that sustainable development is part of your business strategy.

How would you define sustainable development in the uranium mining business and in this project, if you like, where you are using the term?

MR. POLLOCK: There are certainly many definitions of sustainable development out there that one could find in the literature.

The particular approach that would define it in our context, I think it is probably fair to say for the uranium mining in the Athabasca Basin is that mining is a temporary use of the land; that we will do the mining and then after we are finished we will restore the site and we will manage the waste in such a way that the traditional uses of the land that have taken place in the past can resume. And that during the course of carrying out those operations, that we have met, in effect, the

1	three attributes that one quite often sees as
2	characterized in sustainable development of environmental
3	protection, social responsibilities, social equity and
4	economic viability.
5	So that we carry out the operations meeting
6	social, economic and environmental protection attributes
7	and we design the facilities for decommissioning from the
8	start so that, in effect, the mining activity is a
9	temporary use of the area or of the land.
10	MEMBER BARNES: And just as a final
11	question, on, for example, that diagram that we referred
12	to before, Figure 6.2 or the initial map, where you've
13	developed Sue B, C and now E, they are more or less along
14	a liniment, right, and it approaches on 6.1 your boundary
15	with the UEX Claim.
16	As you pointed out in the documents, Sue E
17	area was not part of the initial EA process, and I guess
18	at that time you either were not fully aware of the
19	potential reserves that you are now mining at Sue E or
20	price of uranium has made it such that you can now mine
21	this area.
22	Do you anticipate further mining
23	developments along this general access of A, B, C, E?
24	MR. POLLOCK: Bob Pollock, for the record.
25	There is a Sue D as well but we have no

1	current plans for it. We also continue to explore quite
2	vigorously on our lease area. Certainly anything you can
3	find this close to your existing facilities, even a fairly
4	marginal deposit can be viable if all the infrastructure
5	is already there.
6	To date the only success we've had so far
7	is this caribou pod, but we certainly continue to explore,
8	and if you ask the geologists I'm sure they would tell you
9	that it was almost a sure thing, but we'll have to see.
10	MEMBER BARNES: So where is Sue D relative
11	to the other pits you have shown, roughly?
12	MR. POLLOCK: I'll ask Jim Corman to point
13	out where it is.
14	MR. CORMAN: Jim Corman, for the record.
15	D is just between C and E. C, D, E. It's
16	a little bit deeper than the mineralization in Sue C. So
17	it wasn't by itself an economic deposit.
18	MEMBER BARNES: Thank you.
19	THE CHAIRPERSON: Dr. McDill.
20	MEMBER McDILL: Thank you.
21	My questions go back. Again, they are
22	fairly specific.
23	First, Table 6.6, "Malfunctions and
24	Accidents". It's page 24.

Mitigation options are that all synthetic

1	pond liners are inspected every six months, and I think I
2	have asked this question before but I am not sure if it
3	was to this group or not.
4	Do you actually empty the pond to inspect
5	the pond liner or are you just checking around the edges?
6	MR. POLLOCK: Bob Pollock, for the record.
7	Many of the ponds are periodically emptied
8	in any event so it is not necessarily that the pond is
9	always full, but I will ask Jim to provide a better
10	answer.
11	MR. CORMAN: Jim Corman, for the record.
12	As Bob mentioned, most of the ponds that we
13	have empty out on a batch basis. At the time, we do
14	inspections on a routine basis but officially every six
15	months.
16	MEMBER McDILL: Thank you, and these are
17	ultra-high molecular weight polyethylene or something of
18	the sort?
19	MR. CORMAN: Yes, high density polyethylene
20	liners.
21	MEMBER McDILL: My next question is
22	(SHORT PAUSE)
23	MEMBER McDILL: I missed the first one. On
24	page 14, and it is with respect to yellow cake packaging
25	and again, it's there are no modifications necessary

1	but you are operating for more hours. So I assume that
2	there has been an adjustment maintenance schedule to deal
3	with the fact that you don't have as much down time to
4	deal with maintenance and issues of that nature.
5	MR. POLLOCK: Bob Pollock, for the record.
6	You refer to the yellow cake packaging line
7	with that?
8	MEMBER McDILL: Yes, the yellow cake
9	packaging line.
10	MR. POLLOCK: Yes. I think it is fair to
11	say that the packaging circuit doesn't have a high avail -
12	- or doesn't have a high duty cycle as it currently
13	stands.
14	MEMBER McDILL: So this is not going to be
15	an issue of 24/7 and no one can get to it. Okay. Thank
16	you.
17	My next question is on page 58. With
18	respect to "Health Status", and I guess this relates to
19	the hiring and general improvement of the status of living
20	of the population locally, things like the high infant
21	mortality rates being twice the provincial average, is
22	this something that we expect to improve substantially or
23	somewhat with this project?
24	THE CHAIRPERSON: Or with socioeconomic
25	prosperity?

1	MR. POLLOCK: Bob Pollock, for the record.
2	I don't know if you could attach all that
3	much to this specific project but certainly both operating
4	companies run a range of wellness programs that hopefully
5	extend beyond the immediate workplace in terms of some of
6	the attitudes or behaviours that are hopefully encouraged
7	and other less healthy attributes discouraged.
8	We also participate in a broader initiative
9	that involves sort of community vitality studies and
10	programs that involve a number of stakeholders. So one
11	would hope that over time and that certainly I think there
12	is lots of information out there that poverty also is a
13	contributing factor to poor health. So hopefully between
14	improved economic circumstances and some of these broader
15	programs one would see improvements over time.
16	MEMBER McDILL: I think I would like to
17	link that to the statements that are I guess they were
18	a provincial question and followed by a comment that you
19	are not going to be using local facilities for the minors.
20	They are going to basically commute in. That is correct?
21	MR. POLLOCK: Yes. All the Northern
22	Saskatchewan mines are a seven-in/seven-out type of camp
23	operations where people commute from their home community.
24	MEMBER McDILL: So presumably it is the
25	socioeconomic improvements of the community in a very

1	large	sense	that	are	going	to	improve.	Thank	you
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And my last question is Figure 6.9, the Management Structure for the McClean -- I guess it is for the McClean Lake operation which is -- my question is a general question with respect to management structure. I noticed the management quality individual is stuck out on the far right and the quality engineer is down on the bottom left. Perhaps you could just address that in a general sense for your operations?

MR. POLLOCK: Bob Pollock, for the record.

There is actually a dashed line missing off that diagram and there should be a dashed line that shows a functional relationship between the Quality Engineer at the McClean Lake operation and the Manager of Quality at the corporate office. That dashed line exists for the Quality Engineer or Quality Coordinator in each unit of the company. I hadn't noticed before that it is not on this figure but it should be.

MEMBER McDILL: Thank you.

THE CHAIRPERSON: Perhaps you could just keep 6.9. As it turns out, my question is about that and this is a -- my interest is piqued a bit by Mr. Pollock, your comment in the overhead when you try to approach the integrated environmental protection, because it has been a discussion that the staff has had with the Commission in

1	that	sort	of	an	integrated	approach	as	well	at	the
2	Commi	ission	1 S	ite.	_					

22.

So I wonder if you could link the approach that you talked about of integrating three main components of EA and continual improvement adaptive management? If you could link that to how in the management structure that is ensured — that you ensure that happens in terms of that integrated approach? Who is actually accountable and responsible for that integrated approach?

MR. POLLOCK: Bob Pollock, for the record.

I guess ultimately the gentleman beside me is, but in terms of from a practical nature of how it gets done it is a -- and you're probably not going to like this word but it is a shared responsibility, in the sense that at the site level, site people are responsible for setting their targets and submitting them to the corporate office for review and approval for environmental performance and not just environmental performance but we use a wide range of targets so that there are targets for not just environment but also quality, safety, production.

So the targets come up from the site. They are reviewed and tracked. We have regular meetings involving both site and corporate people so that -- and I guess it is quarterly. We just had one where we looked at the senior management level at all of the targets and

objectives right across the whole organization, including

McClean, in terms of how we are doing.

of -- so on the continuous improvement side -- I'm not sure that is a very clear answer but continuous improvement tends to be driven more from the bottom up than the top down. It is the site people that have to identify the opportunities where they believe they can improve. The corporate role is to review them and confirm that, yes, that they are being ambitious enough and to also provide oversight that in fact it is happening.

where we talked about adaptive management that is a little bit of a different aspect whereby one is taking a lot of environmental mining information, information that comes out as very specific Follow-Up Program initiatives and basically looking at this from a science point of view, do we correctly understand how our models are representing the environment, so that the lead for that tends to come out of the Environment, Health and Safety Department from the technical specialists within the department in terms of evaluating this information and looking at how it compares with what we expected and is there a need for further mitigation, for example.

So the continuous improvement and the

1	adaptive	management	tend to	be	somewhat	different	in	terms
2	of how or	ne gets at t	that.					

THE CHAIRPERSON: I guess maybe I -- well, let me try this and you can tell me if it is right. I am getting back to sort of the systems approach to environmental management system in terms of the role of the EA and the continuous monitoring program and then feeding back and whatever because I am very interested in this because we are operating on the same site again and again and how do we use the data that is available through your management system and your dashboard or of indicators or whoever -- however you want to term it in order for us to be able to, therefore, from a CNSC point of view, monitor also the right information and seek to feed that back as well into our screening as well.

So it's you who has the responsibility for ensuring that the EA works within the environmental management system and then the manager of quality manages it from a quality management point of view; would that be fair to say?

MR. POLLOCK: Bob Pollock, for the record.

If they went and looked at where you would sort of -- how this would be documented and what you would actually find if you came out to audit it, what you would find would be within the top level corporate document is

pretty much a description that builds off of that diagram
that we put in the written submission in terms of, broadly
speaking, what do we do and who does what. Then, as you
move down, if you went and looked at the McClean one, you
will find that many of the things that are tied to
continuous improvement in the environmental area fall out
of either ISO 14001 or the proposed CNSC standard on
environmental management systems. Broadly speaking, there
are many similarities.

So you would find that the description of the program at the site level is in the site document and then there is a whole tier of procedures and work constructions that specify in some detail then who does what.

If you came and -- you will have to wait and come a little bit later because we haven't got it all in place yet, but if you come and look at the departmental manual for the Environment Health and Safety Department it then needs to pick up this other part of it in terms of what are the sort of -- you know, the approach and the procedures for this sort of overview type of scientific evaluation of the data and are we tracking. We clearly do -- all the pieces are there.

I mean, this Tailings Optimization and Validation Program is a good example of an actual working

1	example	and T	aan	noint	+ ~	manı	othors	
	example	and 1	can	DOTHL	LO	manv	others	

In terms of our initiative on molybdenum

was basically this type of approach where we could see

that we needed to take action on molybdenum and we did.

In terms of formalization within my group

we still have got a little piece to go.

The role of the Quality Department is in many ways to ensure that the responsible owners for carrying out the activities have in fact got the processes and procedures in place and to audit them for compliance against those processes and procedures.

actually. Mr. Ching mentioned long-term interest in worker safety and safety in a longer area and as you note that in Northern Saskatchewan we probably have a fairly unique circumstance. We do have a unique circumstance, in fact, in the richness of the deposits. So clearly, protection of workers is a particular challenge that is outside normal mining as well.

My colleague has talked a little bit about some of the other questions about the environment but I think it is -- just to comment that one of the things that we will be talking to you about -- I didn't talk about them today because this is an EA which has a very specific purpose, but one of the things I am quite famous for is

25

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1
         talking to CEOs about safety culture and about quality
2
         management and safety management.
3
                         So I will just leave that with you as
4
         illustrating the emphasis that I put on those particular
5
         items in all of the licensees that are under our Act.
6
                         The mining companies have participated
7
         fully in the discussions of these particular initiatives,
8
         but I think there is an opportunity perhaps on a return
9
         visit. I think it is a bit early and a very specific
10
         topic today to ask you to comment on that, but this is an
11
         area where, as you said, leadership has to come from the
12
         top of the organization and it's been absolutely
         demonstrated here in Canada that that does work when the
13
14
         leaders talk about specific things and that this does
15
         permeate the organization and pays off, we believe.
16
         audit it so we make sure that it happens as well.
17
                         So that's just more of a comment than it is
18
         anything else.
19
                         I am just going to take a 10-minute break
20
         and then we will come back.
21
         --- Upon recessing at 3:08 p.m.
         --- Upon resuming at 3:22 p.m.
22
23
                         THE CHAIRPERSON: Ladies and gentlemen, if
24
         you could take your seats please.
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We will just start round two of

1	questioning.
2	Mr. Graham.
3	MEMBER GRAHAM: Thank you. I just have a
4	couple of questions of clarification.
5	First of all, is the site fenced, because I
6	read somewhere in the report with regard to migration of
7	animals, large animals and so on? Are those large pits
8	fenced or not, or is the outside part of the site fenced
9	for because I read somewhere in the report with regard to
10	the migration of animals, large animals and so on, is
11	are those large pits fenced or not, or is the outside part
12	of the site fenced for that you don't have someone
13	having an accident or animals falling in?
14	MR. POLLOCK: Bob Pollock, for the record.
15	No, we don't have fences at the sites at
16	McClean or other sites in Northern Saskatchewan other than
17	control gates on the roads in and out of the sites.
18	MEMBER GRAHAM: There has not been any
19	major mishaps of migrating animals or anything, caribou or
20	moose or so on, through there that got into the in any
21	of the ponds or anything?
22	MR. POLLOCK: Nothing that has come to my
23	attention.
24	MEMBER GRAHAM: One question I have, the
25	ore bodies, you had A and then B went to the north and

1	then C was within the A confinement and then you talk
2	about D between E and so on.
3	Are those segregated bodies or is that a
4	continuous seam of where you're mining the most feasible
5	part first and then the thinner seams are not mining it
6	right now but you may go to it later, like with D and so
7	on?
8	MR. POLLOCK: Bob Pollock, for the record.
9	I'll ask Jim Corman to talk more about the
10	geology.
11	MR. CORMAN: Jim Corman, for the record.
12	The ore bodies themselves are distinct. In
13	some cases there is maybe only 100 to 200 metres of barren
14	ground in between the pods of mineralization but they are
15	not continuous. The majority of the ore bodies are hosted
16	within the same maybe geology, the same structure but they
17	are discontinuous.
18	MEMBER GRAHAM: Thank you.
19	My third question is with regard to the ore
20	coming out of Sue E, it will be transported up to the ore
21	transfer pad and then stockpiled there and then hauled
22	from there to JEB or will it be hauled continuously to
23	hauled directly from Sue E to JEB or will it just be
24	stockpiled there?

MR. CORMAN: Jim Corman, for the record.

1	It will be handled as we have mined and
2	handled ore in mining of Sue C in that coming out of the
3	pit, it will go through a radiometric scanner and then put
4	onto our ore transfer pad and then transferred up to the
5	mill on an as required basis.
6	MEMBER GRAHAM: The reason I asked that was
7	when you had talked about conveyors to the surface that it
8	would be handled, manhandling it another time and I failed
9	to see that because a conveyor could transfer it right
10	onto a pad, but you're saying it is handled a second time
11	to JEB from the transfer pad; is that correct?
12	MR. CORMAN: That's correct.
13	MEMBER GRAHAM: One other question I have,
13 14	MEMBER GRAHAM: One other question I have, Madam Chair, and only one other, is with regard to
14	Madam Chair, and only one other, is with regard to
14 15 16	Madam Chair, and only one other, is with regard to burning. I read in the in reading this, read about
14 15	Madam Chair, and only one other, is with regard to burning. I read in the in reading this, read about burning of garbage and so on. Is that a method of
14 15 16 17	Madam Chair, and only one other, is with regard to burning. I read in the in reading this, read about burning of garbage and so on. Is that a method of disposal of burning waste and so on? Is that a permitted
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incinerator.

1	MEMBER GRAHAM: Okay. When I read it, it
2	talked about incineration but then it talked about burning
3	other types of waste and I thought maybe it was just burnt
4	in a pit, but you're saying that any garbage that is
5	burned, it is burned through an incinerator and no other
6	way; is that correct?
7	MR. POLLOCK: That is correct.
8	THE CHAIRPERSON: Any further questions?
9	Yes, Mr. Taylor.
10	MEMBER TAYLOR: Thank you, Madam Chair.
11	Could we ask the do you have Union
12	representatives available? Did you have anyone back in
13	Saskatchewan?
14	THE CHAIRPERSON: Could we connect through,
15	please, to Saskatchewan? Is our representative of the
16	Union there today? Is there a representative of the Union
17	here today?
18	UNION REPRESENTATIVE: Yes, there is.
19	THE CHAIRPERSON: Mr. Taylor has a question
20	for you, I believe.
21	MEMBER TAYLOR: I would like to ask a Union
22	representative whether from the Union's perspective it has
23	any observations about the environmental material
24	contained in this assessment.
25	UNION REPRESENTATIVE: Do we have any

I	concerns about the excuse me, could you please repeat
2	the question?
3	MEMBER TAYLOR: Yes. From the Union
4	perspective, do you have any observations that you would
5	like to make about the environmental material presented in
6	this environmental assessment screening?
7	UNION REPRESENTATIVE: Well, from the Union
8	perspective, we have seen their past history on activity
9	and the mine practices from C and we have no reservations
10	about the future environmental problems associated with E.
11	MEMBER TAYLOR: Thank you.
12	THE CHAIRPERSON: Any further questions?
13	MEMBER DOSMAN: Very briefly, Madam Chair.
14	THE CHAIRPERSON: Yes, Dr. Dosman.
15	MEMBER DOSMAN: I wonder if CNSC staff
16	could indicate if in their belief that the concerns of the
17	Environmental Quality Committee have been met in this
18	process? There was a submission but I understand we don't
19	have anyone present either in Saskatoon
20	THE CHAIRPERSON: Dr. Dosman, we'll be
21	handling that in a few minutes actually as a written
22	submission. So if we could just hold if you wouldn't
23	mind just holding that question.
24	MEMBER DOSMAN: Fine.
25	THE CHAIRPERSON: Thanks.

1	Any further questions?
2	Well then, what we would like to do then is
3	move to the interventions and Dr. Dosman, the second
4	gentleman will be from the Environmental Quality
5	Committee. We do have an intervenor, though, from
6	Saskatchewan who will be joining us by videoconference
7	from Saskatchewan. It is the Greater Saskatoon Chamber of
8	Commerce. This is outlined in CMD Document 05-H13.2 and
9	Mr. Smith-Windsor is with us I believe and the floor is
10	yours, sir.
11	05-H13.2
12	Oral presentation by
13	the Greater Saskatoon Chamber of Commerce
14	MR. SMITH-WINDSOR: Thank you very much.
15	I should indicate that from time to time
16	your audio is breaking out. So hopefully you are not
17	experiencing that from our side, and right now we seem to
18	have lost some of your video as well. But I'll continue
19	with my presentation.
20	As outlined in our written submission, I
21	just thought it would be an interesting opportunity to
22	talk about our experience that occurred in June of 2004
23	where our Chamber along with a number of others in
24	Saskatoon had the privilege of hosting a Technical
25	Committee of the International Atomic Energy Agency.

Their work was specifically dealing with environmental management of uranium production facilities and the comments were quite heartening. I think we in Canada sometimes have a bit of a tendency to be a little hard on ourselves and the comments that I made in my written submission were not my words but those voiced by others, including the chair of that particular technical committee, that identified the work that was going on in this area where they did, in fact, outline what their plans were relating to the Sue E site; in specifics, that they regarded the activity in this area operating at the gold standard for the world.

I think that is probably a large testament to the culture of both CAMECO and COGEMA. In this case, we are speaking specifically to COGEMA's activity. But also as a result of the -- if I can use the term "creative tension", that is the result of the efforts of your Commission and the organization COGEMA, where it is very clear to me based on the discussion that I heard over the elements of objectives for improvement using the best available technology, those comments were made not only by the senior management that were making formal presentations, but given that we did stay at a site overnight, I had an opportunity to have brief conversations with a number of workers in the area and

1 they talked all about the commitment to safety and 2 continuous improvement.

Finally, if I were to make a comment generally in terms of what is going on in Northern

Saskatchewan and some of the challenges that we have to engage that community not only in terms of employment but productive use of the area and improving the lives of the citizens of that area, the services that are offered on site relating to providing training programs for safety and prevention initiatives for healthy lifestyles and like have a capacity to pervade far beyond the borders of this particular venture. It has got a specific benefit to Northern Saskatchewan that extends beyond the Sue E facility or the Northern uranium mining activities in a broader context.

Not particularly -- not identified in the written submission is my work as a volunteer in Saskatoon. I have had the privilege of working with a group called the Saskatchewan Institute on Prevention of Handicaps for very close to 20 years, 12 serving in the capacity of Chair. I just recently retired from that position and will serve in the capacity of past chair.

This whole issue of creating messages that are accessible to audiences for safety at the work site and as that pervades into the lifestyles of the people in

1	their family setting, in their community setting, there is
2	no question from what I saw that this is the very best
3	example that we have available in our province and based
4	on my familiarity with work that has gone on across the
5	country, it is probably the best that we have in the
6	country.
7	Thank you.
8	THE CHAIRPERSON: Thank you very much.
9	Were there any questions or comments for
10	Mr. Smith-Windsor?
11	Thank you very much, sir, for joining us
12	from our site in the Saskatoon offices.
13	05-H13.3
14	Written submission of
15	Saskatchewan Environmental Quality Committee
16	THE CHAIRPERSON: We will now then move to
17	the submission that was referred to earlier. This was
18	originally an oral submission from the Saskatchewan
19	Environmental Quality Committee, who have joined us on a
20	number of occasions. It is outlined in CMD 05-H13.3.
21	However, at their request we have changed it from an oral
22	to a written submission. They will not be joining us in
23	person nor will they be joining us via conferencing today,
24	so it is accepted as a written submission.

As such, I would like to turn it over to

1	Dr. Dosman.
2	Dr. Dosman, if you would like to ask your
3	question of staff now that would be fine.
4	MEMBER DOSMAN: Thank you, Madam Chair.
5	Perhaps also a comment from COGEMA. It
6	concerns the matters surrounding the appearance and the
7	state of the site after the project is completed and the
8	concerns that the EQ committee had on that issue.
9	I wonder if CNSC staff could confirm that
10	these concerns have been adequately addressed by the
11	proponent.
12	MR. RINKER: Mike Rinker, for the record.
13	We have had a continuing dialogue with the
14	EQC, in particular with the Northern Mines Monitoring
15	Secretariat for the EQC, throughout this EA and had the
16	opportunity to meet with them in the north of Saskatchewar
17	a couple of weeks ago to discuss this project, amongst
18	many others.
19	I did not, during these discussions here,
20	have any concerns related to the residual impacts of
21	surface construction that were not addressed within the
22	EA. I did not hear any negative comments about the
23	assessment itself and the project that was assessed.
24	MEMBER DOSMAN: I wonder if I might ask if
25	COGEMA specifically addressed the issue the committee had

1	surrounding the appearance of the site when mining was
2	completed and what measures the company has taken to
3	reassure the environmental quality committee on this
4	issue.
5	MR. POLLOCK: Bob Pollock, for the record.
6	I will ask Jim to comment if he is aware of
7	any particular issues, but we have a decommissioning plan
8	for the site that we believe will restore it close to its
9	original quality.
10	Ultimately, as you are well aware, we have
11	embarked on that activity at Cluff Lake. We have the EQC
12	at each site each year, so I think as time goes on perhaps
13	one of the best markers or best measures will be what they
14	actually see at Cluff Lake over the next few years in
15	terms of whether that broadly addresses the issues.
16	THE CHAIRPERSON: I would just draw your
17	attention to specifically CMD 05-H13.3 because there are
18	some specific wording areas that are in there. I don't
19	believe that we are asking what they have said since or
20	whatever. What we are saying is they have voiced some
21	concerns in here that will have you, in the environmental
22	assessment and in your plans, address those issues which
23	would seek to reassure the quality committee.
24	MR. POLLOCK: Bob Pollack, for the record.

When I read this I didn't actually pick up

1	on anything that leaped out of the page at me as an issue.
2	We are referring to their written submission I presume.
3	At a quick glance I see the we are familiar with the
4	open pit mining concept and the draw down of groundwater
5	that is required to accommodate it. For now, we will
6	trust that normal groundwater flows will resume. That is
7	certainly the case.
8	Ultimately, when the site is decommissioned
9	and one is no longer pumping water to maintain a drawn
10	down level in the pit, the original groundwater regime
11	will re-establish.
12	MEMBER DOSMAN: Madam Chair, if I might.
13	Mr. Pollack, I think what I would like is a
14	recognition of and a commitment to the satisfactory
15	remediation of the site when the mining is complete that
16	is also satisfactory to the views of the northern
17	residence. I think that is what I am after in the context
18	of the fourth last paragraph in that document.
19	THE CHAIRPERSON: Their original concern
20	was surrounding the appearance of the site once mining was
21	complete. I think what they are indicating is a concern
22	about the final state.
23	MR. POLLOCK: Bob Pollock, for the record.
24	There may be concerns about mined-out pits,

but we are certainly committed to ensuring that when a

1	water column is re-established in the pit that it is of a
2	quality that protects the natural environment and the
3	animals that use it. Certainly if there are issues about
4	sloping of slopes right around the pit, those can be
5	addressed in due course.
6	We do have \$35 million on the table to
7	guarantee that at the end of the day everybody is
8	satisfied. That must count for something.
9	MEMBER DOSMAN: I take it the answer is
10	yes.
11	THE CHAIRPERSON: Thank you.
12	Are there further questions?
13	Thank you very much. This then is the
14	finish of this hearing today.
15	With respect to this matter I propose that
16	the Commission confers with regard to the information that
17	we have considered today and then determine what further
18	information is needed or if the Commission is ready to
19	proceed with the decision, and we will advise accordingly
20	Thank you very much for coming and have a
21	very safe trip back.
22	Thank you.
23	We will have just a very quick two-minute
24	break while we switch around for the meeting. Thank you
25	very much.

1 --- Upon adjourning at 3:40 p.m.