

Minutes of the 293rd Meeting of the Atomic Energy Control Board held in the Public Hearing Room, AECB Offices, 280 Slater Street, Ottawa Ontario, Thursday, November 4, 1999, beginning at 8:30 a.m.

Present:

Dr. A.J. Bishop, Chair
Dr. A.J. Carty
Dr. C.R. Barnes
Dr. Y.M. Giroux
Mr. A.R. Graham

P. Marchildon, Secretary
A. Nowack, Senior Counsel (for part)
B. Shaffer, Senior Counsel (for part)
B. Gerestein, Recording Secretary

Board staff advisers were R. Cawthorn, D. Cochrane, M. Duncan, B. Ecroyd, P. Eyre, P. Hawley, D. Howard, B. Howden, M. James, R. Keeffe, K. Klassen, R. McCabe, G. Schwarz, E. Seguin, M. Taylor, R. Thomas, P. Thompson, G. Turcotte and T. Viglasky.

Chair and Secretary

1. The President took the chair and the Secretary of the Board acted as Secretary of the meeting with the Manager, Board Services Group acting as recording secretary.

Constitution

2. Notice of meeting having been properly given (BMD 99-134) and a quorum of Members being present, the meeting was declared to be properly constituted for the transaction of any business that might be brought before it.

3. Since the meeting of October 7, 1999, Board Member Documents BMD 99-134 to BMD 99-153 had been distributed to Members. These documents are further detailed in Annex A of these minutes.

Adoption of Agenda

4. The updated agenda, BMD 99-135.1, was adopted as presented.

DECISION

Preliminary List of Agenda Items for the December 16, 1999, Board Meeting

5. Members received for information the updated preliminary list of agenda items for the next meeting of the Board, December 16, 1999; reference BMD 99-136.

Minutes of the 292nd Meeting of the Board, October 7, 1999DECISION

6. On motion duly moved and seconded, the Board approved the draft minutes of the 292nd meeting; reference BMD 99-137.

Business Arising

7. The Board received for information the report on business arising from the previous minutes, as itemized in BMD 99-138.

Significant Development Report

8. Members reviewed Significant Development Report No. 1999-9 with staff who provided updates; reference BMDs 99-139 and 99-139.1.

Power Reactors: Members were informed that, as requested during the previous meeting of the Board, a status report on unacceptable and conditionally acceptable items relating to Bruce B has been received from C. Andognini, Ontario Power Generation, and AECB staff will be providing a response.

(Dr. Carty joined the meeting.)

Materials Regulation: Staff provided updates on the three items listed in BMD 99-139.1.

Regarding item 3.2 of the BMD, staff indicated that the matter is now complete.

Regarding item 3.3, staff indicated that the matter is still under investigation and is being reviewed by staff with a view to determining if the situation could have been caught sooner. Staff noted that they have found generally poor compliance with items investigated and that specific licences or licence terms will be withdrawn or amended. Staff further added that affected licensees are being informed of their right to be heard on these actions.

In response to a Member's question regarding the ability of the licensee to provide health services, Board staff indicated that therapy and diagnostic work has not been restricted. Staff indicated that both licensee and AECB processes are being investigated and that incidents did not result in any individuals being overexposed .

Regarding item 3.1, staff indicated that the National Research Council is undertaking an independent third party study of the gauge and that investigation is ongoing. Staff stated that all other licensees possessing this type of gauge have been contacted and none report any problems. In response to a Member's question on the doses received, staff indicated that some doses appear to have exceeded the maximum permitted for radiation workers but that final doses have not yet been determined.

Status of Legal Issues

9. Members reviewed with Senior Counsel the report on the Status of Legal Issues; reference BMD 99-140. Regarding item 1.A.(a) in the BMD, Russell Technologies Corporation, Senior Counsel noted that a guilty plea was entered and a \$1000 fine imposed. Regarding item 1.A.(b), Alejandro Estevan Fiero, a guilty plea was entered and a \$350 fine imposed.

Next meetings of the Board

10. The Chair noted that the next meetings of the Board will be held December 16, 1999, in Ottawa, Ontario, with a November 25 deadline for submissions, and January 20, 2000, in Ottawa, Ontario, with a December 30, 1999 deadline for submissions.

COGEMA Resources Inc. - McClean Lake Project

11. Members received a presentation from R. Pollock and J. Corman, COGEMA Resources Inc., Saskatoon, Saskatchewan, requesting an amendment to the operating licence for the McClean Lake Project, located in northern Saskatchewan, to permit operation of the SUE open pits and associated facilities; reference BMD 99-141.1 and attached overheads. The presentation provided an overview of the McClean Lake Project including current activities, program approvals received to date, and outlined in detail the request for a licence amendment.

AECB staff gave a presentation on the subject application following BMD 99-141 and attachment. Staff covered topics including a status update of the facility, consideration of public comments, financial assurances for decommissioning, licensing fees, and implementation of the new safeguards protocol. Staff indicated that there are no outstanding items to be addressed.

(Continued in item 27)

Cameco Corporation - Key Lake Mining Facility

12. Members received a presentation from J.P. Jarrell, Cameco Corporation, Saskatoon, Saskatchewan, requesting: 1. renewal of the

operating licence for the Key Lake mining facility in northern Saskatchewan; 2. approval to process McArthur River ores and to place tailings subaqueously into the Deilmann Tailings Management Facility; and 3. approval to operate the ore-receiving facility and to process and dispose of mineralized waste rock from the McArthur Project at the Key Lake facility; reference BMD 99-142.1 and attached overheads. J.P. Jarrell gave an overview of the construction process and licensing documentation, an update of the McArthur River project, current status of the facility and planned operation, waste management, and further information in relation to questions posed at the August 12, 1999 meeting of the Board. J.P. Jarrell concluded that the operating licence is needed to secure the long-term future of the facility and that the facility has operated in a safe and environmentally responsible manner during the previous licensing period.

AECB staff gave a presentation on the subject application following BMD 99-142 and attachment. Staff dealt with topics including the status of the facility, environmental monitoring, public comments received, and financial assurances.

In response to a Member's question about leachate and collection of waste water, AECB staff indicated that leachate is contained.

Members received for consideration a presentation from W. Keyes, Risk Assessment Society, Regina, Saskatchewan, on the subject application. W. Keyes presented the view that comparable risk should be a consideration when licensing nuclear facilities and that nuclear facilities generally pose less risk than people face in other projects and occupations. Reference BMD 99-142.2 and attached overheads. Members discussed with W. Keyes issues including Society membership, morbidity and mortality, and risk assessment.

Members received for consideration submissions from M. Shiell, Saskatoon, Saskatchewan, in opposition to the subject request; reference BMD 99-142.3 and BMD 99-142.3A. In response to some of the questions in M. Shiell's submission, AECB staff indicated that the AECB requires environmental monitoring programs and this is within AECB jurisdiction. Staff further indicated that monitoring fish for radioactive and chemical

contamination will be undertaken and J.P. Jarrell stated that such monitoring, which is required by both the provincial and federal government, will take place every three years.

(Continued in item 28)

13. Members received for consideration a presentation from AECB staff on the request of the Department of National Defence for a Particle Accelerator Operating Licence at its Defence Research Establishment, Ottawa, Ontario; reference BMD 99-143. In response to a Member's question on whether a health physicist would be on site, staff indicated that this is not a requirement but that staff qualified to operate the facility would be on site whenever the facility is operated. Staff also informed the Board that a licence modification to allow full operation following testing would not come back before the Board for a decision, instead a modification would be granted by AECB staff if appropriate.

(Continued in item 29)

Delegation of Authority

14. Members received for consideration a presentation from AECB staff on the temporary delegation of certain approval authority to site and regional staff in order to cover possible communication difficulties at the year end; reference BMD 99-144.

(Continued in item 30)

(The meeting recessed at 9:55 a.m. for 15 minutes. Dr. Carty left the meeting.)

Opportunity to be Heard - Amendment to Authorizations

15. This matter was previously before the Board on August 12, 1999, at which time the Board directed AECB staff to communicate with persons potentially affected by the decision and to inform them of their opportunity to be heard by the Board on the matter.

Members received for consideration an update from AECB staff on the proposal to introduce a limit of five years on AECB authorizations for operations personnel at nuclear power plants; reference BMD 99-145 and attached overheads. AECB staff reviewed actions taken following the August 12 meeting and explained that they were prepared to replace the proposed requalification tests for Shift Supervisors, Shift Operating Supervisors and Control Room Operators at nuclear power plants that

were to be held once every five years by a series of requalification tests held over the same five-year period. The purpose of a renewal of authorizations every five years is to periodically confirm that each authorized employee is capable of performing the duties of the position competently and safely and the requirements for renewal are such that maintaining and demonstrating adequate knowledge, skill and performance is an ongoing process. Staff recommend that authorizations be amended effective March 1, 2000, limiting their validity to five years.

Members received for consideration a presentation from R. Moore, Shift Supervisor, Ontario Power Generation (OPG), at Pickering NGS-A, representing Shift Supervisors and Shift Operating Supervisors at OPG nuclear facilities; reference BMD 99-145.1. R. Moore was accompanied by W. Bull, A. Campagnolo, R. Cembrowski and B. Pilger. R. Moore outlined the position of affected OPG staff and concluded that a properly managed Continuing Training Program is preferable to one-time testing at the end of five years as originally proposed by AECB staff.

Members received for consideration a presentation from T. Long, accompanied by B. Rowe and D. Cowley, representing the Ontario Authorized Nuclear Operator Committee; reference BMD 99-145.2. The presenters outlined the concerns of Committee members and requested that the Board not accept the original AECB staff proposal regarding the five-year automatic expiration of authorizations and mandatory re-examination at the end of each five-year period. Instead, the presenters recommended that AECB staff, OPG and Authorized personnel work together to develop and implement a continuing training program and a methodology for requalification testing that can meet the requirements of all stakeholders.

Members received for consideration a presentation from T. Pigeau, H. Hergott and B. Menard representing the Power Worker Workers' Union (PWU); reference BMD 99-145.3 and attachment. The PWU recommended that the Authorized Nuclear Operators and their bargaining agent, the PWU, be involved in an ongoing manner regarding this issue and presented their specific recommendations.

Members received for consideration a presentation from A. Ouellet, R. Picard and W. Warren, representing 23 of 24 First Operators and Shift Supervisors at Hydro-Québec's Gentilly 2 Nuclear Generating Station; reference BMD 99-145.4. The delegation concluded by requesting that the Board not implement the five-year authorizations originally proposed by AECB staff.

Members received for consideration a presentation from D. Moore and J. McIntosh, representing Authorized Staff at NB Power's Point Lepreau Generating Station; reference BMD 99- 145.5 and 99-145.5A. The delegation outlined their concerns and concluded that the Continuing

Training Program provides a better means of ensuring continued competence and is more conservative, and recommended that the five-year expiry of authorizations for Authorized Staff not be approved as originally proposed.

Members received for consideration a submission from J. Brown, Shift Supervisor at the Point Lepreau Generating Station, opposing the original subject proposal; reference BMD 99-145.6 and BMD 99-145.6A.

In response to a Member's question about issues to be completed by March 1, 2000, AECB staff outlined the sequence of events in support of the newly proposed regulatory program and the standards being developed for authorizations and testing. AECB staff clarified that their current position on requalification tests, developed following suggestions for changes from the utilities, does not involve one written test and one simulator test at the end of every five year period but that ongoing testing will be undertaken by the licensees during the five-year duration of AECB authorizations. AECB staff added that details of the revised standard for requalification testing of authorized staff at nuclear power plants have yet to be finalized with the utilities. In response to a Member's question on having all authorizations expire at the same time, as opposed to a staggered date, staff indicated that discussions on this are ongoing with the utilities. With respect to the specific recommendations made by the PWU, AECB staff indicated that the *Standard for the Certification of Staff at Nuclear Power Plants* is being revised and PWU concerns have been taken into account. Members discussed with AECB staff and presenters the issues of initial and continuing training. Presenters indicated that actual operating experience and testing may differ and that evaluation must take this reality into effect. Presenters remarked that some aspects of initial training and authorization may not be appropriate since the actual workplace involves a great deal of teamwork, which is not fully recognized in the initial training. OPG management stated that the presumption initially is on testing individual competence as opposed to testing teamwork, adding that the examination process may not meet all station requirements. The Chair confirmed with AECB staff and presenters points of agreement, namely that some training and testing is needed after initial authorization, that a one time exam at the end of five years is no longer being recommended, that standards need to be developed, that there is an understanding that both teamwork and individual performance are important, that reauthorizations should be based on continuing training and requalification tests, and that maintenance of competence over a period of time is important and should be assessed.

(Continued in item 31)

(The meeting recessed for lunch from 12:05 p.m. to 12:45 p.m.)

Bruce Nuclear Power Development Dry Fuel Storage Facility

16. The Chair began by asking if a representative of the Inverhuron and District Ratepayers Association (IDRA) was present at the meeting. C. Birchall, Birchall Northey Barristers and Solicitors, Toronto, came forward and introduced himself as acting for the IDRA. The Chair asked C. Birchall if his client still requests that the Board not proceed with the subject application at this time. C. Birchall responded that his client requests that the meeting be deferred since IDRA has advised that they did not receive adequate notice of the meeting. The Chair asked AECB staff if information, including notification on the current subject, was sent to R. MacKenzie of IDRA. Staff confirmed that R. MacKenzie was sent such information under cover of a letter dated September 24, 1999. Enclosures were the agenda for the October 7, 1999 meeting of the Board (BMD 99-115), the preliminary list of agenda items for this November 4, 1999 meeting of the Board (BMD 99-116) and BMD 99-121 regarding the renewal of the Bruce Nuclear Power Station B Operating licence. The Chair stated that in his letter to her of October 19, 1999 (reference BMD 99-146.1A), R. MacKenzie indicated that he received notice about another Bruce Nuclear Power Development matter but stated that there was no notice respecting this project. C. Birchall indicated that his client informed him that notice of the subject proposal was not received. The Chair asked C. Andognini, Ontario Power Generation (OPG), if he still wished to proceed, and referred to BMD 99-146.6. The Chair asked C. Birchall what irreparable harm would occur if the Board were to proceed with initial consideration at this time since no decision was being made. C. Birchall stated that there would be no irreparable harm but that the outcome of today's meeting might affect the future decision and that the issues were the subject of the judicial review. The Chair stated that a decision would not be taken at today's meeting and that intervenors have approximately 60 days to submit submissions prior to the next meeting on this subject, to be held January 20, 2000 at the earliest. The Chair also asked C. Andognini for his views on the harm that could result from either proceeding or not proceeding. C. Andognini replied that OPG wished to proceed and there could be safety implications in not proceedings. The Chair also informed C. Birchall that information relating to today's meeting (also copied to Birchall Northey) sent by the AECB via courier to N. de la Chevrotiere of IDRA at his request had been returned as undeliverable. C. Birchall indicated that the address would be verified. The Chair then asked Members if they wished to proceed with initial consideration at this time. Members determined that IDRA had received notice of the current meeting and that there was no evidence of irreparable harm in proceeding, therefore the Board decided to proceed with initial consideration at this time as previously scheduled. Reference BMD 99-146.1 and BMD 99-146.1A from IDRA, BMD 99-146.2 from the Secretary of the Board, and BMD 99-146.6 from C. Andognini, OPG.

Members received for initial consideration a presentation from C. Andognini and K. Nash, OPG, Toronto, Ontario, requesting construction approval for the Site 2 Dry Fuel Storage Facility to be located at the Bruce Nuclear Power Development, County of Bruce, Ontario; reference BMD 99-146.3. K. Nash covered topics including background information, system design and location, operational safety, radiological safety, environmental issues, public involvement and concerns raised by IDRA and First Nations. The presentation concluded with a request for construction approval, noting that additional used fuel storage capacity is required for continued operation of the Bruce stations beyond 2002.

Members received for consideration a presentation from AECB staff on the subject proposal; reference BMD 99-146. Staff reviewed issues including the project description and location, licensing, container design, International Atomic Energy Agency safeguards, security, radiological impact, monitoring and public interest. Staff indicated that if construction approval were to be given to this proposal, a further licence would be required for operation and the applicant would be required to apply for such a licence at a future date and follow the Board's licensing process. AECB staff also noted that security documentation for the current proposal has been reviewed and that staff are satisfied with the adequacy of the OPG submission adding that the proposal is similar to the existing Pickering used fuel dry storage facility which is operating acceptably as designed.

A Member asked OPG about discussions they have had with local First Nations on the subject proposal. OPG indicated that they have met with native groups and discussions are ongoing with them. In response to a Member's question on whether the Nawash First Nations submission was previously submitted as part of the assessment under the *Canadian Environmental Assessment Act (CEAA)*, AECB staff indicated that it was. In further discussion with OPG it was confirmed that discussions are ongoing with the First Nations. OPG noted that First Nations have requested that a study on whitefish be undertaken and that OPG has agreed to fund such a study and is determining the study parameters. OPG further outlined reasons for delays in undertaking the whitefish study earlier. In response to a Member's question on storage capacity, K. Nash indicated that the capacity proposed is sufficient to permit both sets of the Bruce reactors to operate for about 40 years, and that nuclear waste would not be coming from other sites. K. Nash also indicated that even if one Bruce station were to be decommissioned, eventually fuel would need to be moved, so the dry storage would still be needed. The Chair asked AECB staff if there were outstanding facility design issues which might make IAEA safeguards compliance difficult. Staff indicated that no such safeguards concerns existed with respect to the design.

The Chair asked C. Birchall if he wished to ask questions or comment on either of the presentations received and he stated that he did not.

Members received for consideration a submission from Chief Ralph Akiwenzie, Chippewas of Nawash First Nation, Wiarton, Ontario, on the subject proposal; reference BMD 99-146.4.

Members received for consideration a submission from S. Kleinau, Citizens for Renewable Energy, Lion's Head, Ontario, opposing the subject proposal; reference BMD 99-146.5 and BMD 99-146.5A. The Chair noted S. Kleinau's statement that Citizens for Renewable Energy and Great Lakes United also made submissions to CEAA on the proposed project, although not mentioned in AECB staff BMD 99-146.

The Chair informed C. Birchall that the subject proposal would not be further considered by the Board until January 20, 2000 at the earliest and that therefore his client had sufficient time to make submissions to the Board.

(Continued in item 32)

(Dr. Carty rejoined the meeting)

University of Toronto

17. Members received from AECB staff a presentation on the request from the University of Toronto, Toronto, Ontario, for initial consideration for renewal of its Radioactive Waste Management Facility Operating Licence; reference BMD 99-147.

(Continued in item 33)

University of Ottawa Heart Institute

18. Members received from AECB staff a presentation on the request from the University of Ottawa Heart Institute, Ottawa, Ontario, for initial consideration for a Particle Accelerator Construction Approval; reference BMD 99-148. In response to a question from the Chair, G. Firnau, representing the applicant, outlined qualifications required for facility staff but noted staff have not yet been employed.

(Continued in item 34)

(Mr. Graham left the meeting)

Point Lepreau Generating Station

19. Members received for information the Point Lepreau Generating Station Performance Program Update Report which is required pursuant to condition A.B.4 of Power Reactor Operating Licence 12/98; reference

BMD 99-129. R. White and W. Pilkington gave a presentation updating the program and presenting key issues and progress made since the April 1999 progress update. W. Pilkington indicated that progress is slower than originally anticipated due to a lengthy station outage and he outlined Performance Improvement Program (PIP) adjustments which are being made as a result.

Members received for information the AECB staff report on the above-noted submission; reference BMD 99-129.1. Staff stated that the station is operating safely in the short term and positive changes have been made, but noted that NB Power is still having difficulty improving important processes at the Point Lepreau Station.

In response to a Member's question on why the PIP has not been successful in the past two years and why will the transition initiative is expected to succeed, W. Pilkington indicated that the PIP did not fail. W. Pilkington stated that the number of serious incidents has been greatly reduced and that resources have been increased to address outstanding problems. R. White indicated that station employees are willing to carry out changes and that continual improvement is being achieved with additional emphasis being placed on the human performance aspects of operation. AECB staff, in response to a Member's question, stated that they will continue to conduct inspections at the facility and review efforts of the licensee to improve performance.

(Mr. Graham rejoined the meeting)

Atomic Energy of Canada Limited

20. Members received for information the Atomic Energy of Canada Limited (AECL) progress report on issues identified as site licence conditions in licences NRTE 1/98 and NRTE 2/98; reference BMD 99-132. P. Lafrenière, AECL, gave a presentation on progress over the past year on three issues: the implementation of an "Overall Quality Assurance Program", the NRU Upgrades and Reactor Safety Evaluation Program, and the Active Drain System Replacement Project at Chalk River Laboratories. AECB staff indicated that the preceding report is accurate and deadline dates appear reasonable.

Ontario Power Generation - Pickering NGS B

21. Members received for information the AECB staff report on the status of Pickering Nuclear initiatives to address cultural issues arising from the Pickering B incidents reported in SDR 1999-7 (BMD 99-98); reference BMD 99-133. P. Tremblay, OPG, indicated that the report details work in progress adding that events occurring at the station have been pursued and corrective actions put in place.

Ontario Power Generation - NAOP Based Integrated Improvement Program

22. Members received for information the AECB staff report on the status of OPG's NAOP based Integrated Improvement Program (IIP); reference BMD 99-149 and attached overheads. Staff provided a summary of AECB staff's current opinion on the IIP following the outline in the BMD.

Members received for information a presentation from C. Andognini and B.E. McGee, OPG, on the company's Nuclear Integrated Improvement Program; reference BMD 99-149.1 and a revised version, BMD 99-149.1A. C. Andognini and B. McGee provided an overview of IIP progress to date, responded to the AECB staff BMD, outlined IIP performance to date, implementation accomplishments and plans for continuous improvement.

With respect to continuing training, C. Andognini outlined changes made in training and what is planned. In response to a question from the Chair on whether common problems exist at all OPG sites, C. Andognini indicated that problems are similar from site to site.

ACTION:
M. Duncan

ACNS-23, "Transport of Radioactive Material in Canada"

23. Members received for information AECB staff comments on the report of the Advisory Committee on Nuclear Safety entitled ACNS-23, "Transport of Radioactive Material in Canada"; reference BMD 99-150. Members requested that staff provide an update report in two years.

Radium Licensing

24. Members received for information the AECB staff report and recommendations on radium licensing; reference BMD 99-151. The Chair indicated that the Board was pleased to see progress on this issue.

Advisory Committees and Group of Medical Advisers

25. Members received for information a summary of activities since April 6, 1999, of the Advisory Committee on Nuclear Safety, the Advisory Committee on Radiological Protection and the Group of Medical Advisers; reference BMD 99-152. Staff informed the Board that new Committees have been established and meetings are scheduled for early December.

Annual Report for the Non-proliferation, Safeguards and Security Division

26. Members received for information the annual report covering the period April 1, 1998 to March 31, 1999, for the Non-proliferation, Safeguards and Security Division; reference BMD 99-153. Members noted that the report was very informative.

(The meeting adjourned in camera)

COGEMA Resources Inc. - McClean Lake Project (Continued from item 11)

27. Having received and heard presentations and submissions from the applicant, AECB staff and intervenor, the Board

a) accepted Board staff's assessment that the proponent has the programs in place to provide for the adequate protection of workers, the public and the environment;

b) accepted the Board staff's conclusion that the project is covered by section 2 of Schedule I, Part I of the *Canadian Environmental Assessment Act (CEAA) Exclusion List Regulations* and therefore a further environmental assessment of the project is not required according to paragraph 7(1)(a) of the CEAA; and

c) approved the issuance of a Mining Facility Operating Licence to COGEMA Resources Inc.(CRI), Saskatoon, Saskatchewan, to authorize CRI to mine the SUE open pits located in northern Saskatchewan, to process the ore for recovery of uranium, to place the tailings generated from the mill processing into the JEB Tailings Management Facility and to place the special wastes from the project into the mined-out SUE C pit for a period ending June 30, 2001.

DECISION

Cameco Corporation - Key Lake Mining Facility (Continued from item 12)

28. Having received and heard presentations and submissions from the applicant, AECB staff and intervenors, the Board

a) accepted Board staff's assessment that the proponent has the programs in place to provide for the adequate protection of workers, the public and the environment;

b) accepted the Board staff's conclusion that the project is covered by section 2 of Schedule I, Part I of the *Canadian Environmental Assessment Act (CEAA) Exclusion List Regulations* and therefore a further environmental assessment of the project is not required according to paragraph 7(1)(a) of the CEAA; and

c) approved the issuance of a Mining Facility Operating Licence, to Cameco Corporation, Saskatoon, Saskatchewan, for the Key Lake uranium mining facility in northern Saskatchewan. The operating licence also authorizes the Key Lake facility to process McArthur River ore and to place the tailings subaqueously into the Deilmann Tailings Management Facility, to operate the ore-receiving facility and to receive mineralized

DECISION

waste rock from McArthur River for permanent disposal for a period ending November 30, 2001.

Department of National Defence - Defence Research Establishment Ottawa
(Continued from item 13)

DECISION

29. Having received and heard the presentation of AECB staff, the Board
- a) determined, pursuant to subsection 10(2) of the *Atomic Energy Control Regulations*, that no approval to construct or acquire is necessary, and
 - b) approved the issuance of an Accelerator Facility Operating Licence to the Deputy Minister, Department of National Defence, Ottawa, for the Defence Research Establishment Ottawa facility for a period ending November 30, 2003.

Delegation of Authority - Amendment to Authorizations
(Continued from item 14)

30. Having received and heard the presentation of AECB staff, the Board decided that
- a) during the period December 31, 1999 to January 1, 2000, for the purposes of condition number 3.1 of all current Ontario Power Generation Power Reactor Operating Licences and condition AA1 of the Power Reactor Operating Licences for Gentilly-2 Nuclear Generating Station and Point Lepreau Generating Station, the persons "authorized by the Board" include the member of AECB staff who is the Senior Project Officer or, in that officer's absence, any AECB project officer at the site of the facility in respect of which an approval is sought;
 - b) during the same period, that the Senior Management representative identified for purposes of the Y2K Contingency Plan on duty is authorized to carry out the powers referred to in BMD 92-104 with respect to urgent safety related approvals under licences that are the responsibility of the Directorate of the Fuel Cycle and Materials Regulation;
 - c) during the same period, that the Head of each Regional Office or, in that officer's absence, to one AECB inspector in each Regional Office is authorized to approve deviations by radioisotope licensees from established work practices and safety procedures; and

DECISION

- d) the persons occupying the above-noted positions may exercise this authority;
- i) only if the approval requested cannot, due to a communication failure, be dealt with in a timely manner by a person who would normally do so under authority previously given by the Board; and,
- ii) only if failure to provide the approval requested, would, in their judgement impinge negatively on public health, safety or security or the environment.

ACTION:

J. Waddington

Opportunity to be Heard (Continued from item 15)

31. Having received and heard the presentations by AECB staff and intervenors, the Board approved the recommendation of AECB staff that all required authorizations for Shift Supervisors, Shift Operating Supervisors and Control Room Operators at Nuclear Power Plants and for operations personnel at the McMaster University Reactor be amended effective March 1, 2000, limiting their validity to five years. Further, the Board determined that ongoing training and assessment is required, as opposed to a single examination at the end of a five-year period, and requested that AECB staff report back to the Board every two months on progress being made in the development of the standards needed to implement the five-year renewal of authorization until such standards are in place. Members also requested that staff prepare a summary report outlining the experiences of other countries which use similar renewal of authorizations.

ACTION:

J. Waddington

DECISIONINITIALCONSIDERATIONOntario Power Generation - Bruce Used Fuel Dry Storage Facility (Continued from item 16)

32. Having received and heard presentations and submissions from the applicant, AECB staff and intervenors, the Board gave initial consideration to the application of Ontario Power Generation Inc., Toronto, Ontario, for an amendment to the Bruce Nuclear Power Development (BNPD) Radioactive Waste Operations Site 2 Operating Licence to expand the licensed area to include the proposed Bruce Used fuel Dry Storage Facility area and to authorize the construction of the Bruce Used Fuel Dry Storage Facility at the BNPD Radioactive Waste Operations Site 2, County of Bruce, Ontario.

INITIALCONSIDERATIONUniversity of Toronto (Continued from item 17)

33. Having received and heard the presentation of AECB staff, the Board gave initial consideration to the application of the University of Toronto, Toronto, Ontario, for a Waste Management Facility Operating Licence.

INITIALCONSIDERATION

University of Ottawa Heart Institute (Continued from item 18)

34. Having received and heard the presentation of AECB staff, the Board gave initial consideration to the application of the University of Ottawa, Ottawa, Ontario, for an Accelerator Facility Construction Approval.

Closing

35. The meeting closed on consensus at 4:30 p.m.

Chair

Recording Secretary

Secretary

ANNEX A / ANNEXE A

BMD	DATE	File No / n° de dossier
99-129	1999-09-21	(1-3-1-7)
New Brunswick Power: Report on the status of the improvement program at Point Lepreau Nuclear Generating Station - Appearance by New Brunswick Power Énergie Nouveau-Brunswick: Rapport sur l'état d'avancement de son programme d'amélioration de la centrale Point Lepreau - Intervention par Énergie Nouveau-Brunswick		
99-129.1	1999-11-04	(1-3-1-7)
New Brunswick Power: Report on the status of the improvement program at Point Lepreau Nuclear Generating Station - Appearance by New Brunswick Power - Appearance by AECB Staff Énergie Nouveau-Brunswick: Rapport sur l'état d'avancement de son programme d'amélioration de la centrale Point Lepreau - Intervention par Énergie Nouveau-Brunswick - Intervention par les agents de la CCEA		
99-132	1999-09-21	(1-3-1-7)
Atomic Energy of Canada Limited: Report on the progress of the implementation of a corporate quality assurance program; NRU upgrades and NRU safety report; Chalk River Laboratories active drain system replacement project - Appearance by Atomic Energy of Canada Limited Énergie atomique du Canada limitée: Rapport sur l'état d'avancement de la mise en oeuvre d'un programme général de l'assurance de la qualité, des améliorations apportés au NRU et la mise à jour du rapport de la sûreté à NRU, du projet de remplacement du système de purge actif aux laboratoires - Intervention par Énergie atomique du Canada limitée		
99-133	1999-09-23	(1999-09-23)
Update on Pickering Nuclear (PN) Initiatives to Address Cultural Issues Arising from Recent Pickering B Incidents Mise à jour des mesures correctives mises de l'avant par Pickering Nuclear suite à de récents événements		
99-134	1999-10-15	(1-3-1-5)
Notice of Meeting Avis de convocation		

99-135 1999-10-19 (1-3-1-5)

Agenda for the Board Meeting beginning at 8:30 a.m., on Thursday, November 4, 1999, in the Public Hearing Room, 14th floor, 280 Slater Street, Ottawa, Ontario

Ordre du jour de la réunion de la Commission qui s'ouvrira le jeudi 4 novembre 1999 à 8 h 30, dans la salle des audiences publiques, au 14e étage du 280, rue Slater, Ottawa (Ontario)

99-135.1 1999-10-19 (1-3-1-5)

Agenda for the Board Meeting beginning at 8:30 a.m., on Thursday, November 4, 1999, in the Public Hearing Room, 14th floor, 280 Slater Street, Ottawa, Ontario - Update

Ordre du jour de la réunion de la Commission qui s'ouvrira le jeudi 4 novembre 1999 à 8 h 30, dans la salle des audiences publiques, au 14e étage du 280, rue Slater, Ottawa (Ontario) - Mise à jour

99-136 1999-10-19 (1-3-1-5)

Preliminary List of Agenda items for the Board meeting of December 16, 1999

Liste préliminaire des points à l'ordre du jour de la réunion du 16 décembre 1999 de la Commission

99-137 1999-10-18 (1-3-1-5)

Minutes of the October 7, 1999 Board meeting

Procès-verbal de la réunion de la Commission du 7 octobre 1999

99-138 1999-10-19 (1-3-1-5)

Business arising from Atomic Energy Control Board Meetings

Suivis des réunions de la Commission de contrôle de l'énergie atomique

99-139 1999-10-19 (1-3-1-5)

Significant Development Report No. 1999-9

Rapport des faits saillants n° 1999-9

99-139.1 1999-11-02 (1-3-1-5)

Significant Development Report No. 1999-9- Update

Rapport des faits saillants n° 1999-9 - Mise à jour

99-140 1999-10-19 (2400-6-2)

Status of Legal Issues

État des questions juridiques

99-141 1999-10-19 (22-C2-123-1)
 COGEMA Resources Inc. McClean Lake Project - Amendment to Mining Facility Operating Licence

COGEMA Resources Inc. Modification du permis d'exploitation de l'installation projet McClean Lake

99-141.1 1999-10-19 (1-3-1-7)
 COGEMA Resources Inc. McClean Lake Project - Amendment to Mining Facility Operating Licence - Appearance by COGEMA Resources Inc.
 COGEMA Resources Inc. Modification du permis d'exploitation de l'installation projet McClean Lake - Intervention par COGEMA Resources Inc.

99-142 1999-10-19 (22-C4-126-1)
 Cameco Corporation Key Lake - Mining Facility Operating Licence
 Cameco Corporation Permis d'exploitation de l'installation minière Key Lake

99-142.1 1999-10-19 (1-3-1-7)
 Cameco Corporation Key Lake - Mining Facility Operating Licence - Appearance by Cameco Corporation
 Cameco Corporation Permis d'exploitation de l'installation minière Key Lake - Intervention par Cameco Corporation

99-142.2 1999-10-19 (1-3-1-7)
 Cameco Corporation Key Lake - Mining Facility Operating Licence - Appearance by Risk Assessment Society
 Cameco Corporation Permis d'exploitation de l'installation minière Key Lake - Intervention par * Risk Assessment Society +

99-142.3 1999-10-19 (1-3-1-7)
 Cameco Corporation Key Lake - Mining Facility Operating Licence - Submission from Mrs. Maisie Shiell
 Cameco Corporation Permis d'exploitation de l'installation minière Key Lake - Mémoire de madame Maisie Shiell

99-142.3A 1999-10-29 (1-3-1-7)
 Cameco Corporation Key Lake - Mining Facility Operating Licence - Submission from Mrs. Maisie Shiell - Additional information
 Cameco Corporation Permis d'exploitation de l'installation minière Key Lake - Mémoire de madame Maisie Shiell - Information supplémentaire

99-143 1999-10-19 (29-1-21-3-0)

Defence Research Establishment Ottawa , Particle Accelerator Nuclear Facility Operating Licence
Centre de Recherche pour la Défense à Ottawa, Permis d'exploitation d'un établissement nucléaire
d'accélérateur de particules

99-144 1999-10-19 (13-1-32-0)

Year 2000 Contingency: Proposed Delegation of Authority
Plans d'urgence - l'an 2000 : Délégation de pouvoirs proposée

99-145 1999-10-19 (13-1-2-3-0)

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations
Personnel at Nuclear Power Plants (NPP)
Mise à jour relative à l'introduction d'une limite de cinq ans pour les ccréditations délivrées par la
CCEA au personnel exploitant des centrales nucléaires

99-145.1 1999-10-19 (1-3-1-7)

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations
Personnel at Nuclear Power Plants (NPP) - Appearance by Shift Supervisors and Shift Operating
Supervisors at Ontario Power Generation
Mise à jour relative à l'introduction d'une limite de cinq ans pour les ccréditations délivrées par la
CCEA au personnel exploitant des centrales nucléaires - Intervention par les chefs de quart et * Shift
Operating Supervisors +d'Ontario Power Generation

99-145.2 1999-10-19 (1-3-1-7)

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations
Personnel at Nuclear Power Plants (NPP) - Appearance by Ontario Authorized Nuclear Operator
Committee
Mise à jour relative à l'introduction d'une limite de cinq ans pour les ccréditations délivrées par la
CCEA au personnel exploitant des centrales nucléaires - Intervention par * Ontario Authorized
Nuclear Operator Committee +

99-145.3 1999-10-19 (1-3-1-7)

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations
Personnel at Nuclear Power Plants (NPP) - Appearance by Power Worker's Union
Mise à jour relative à l'introduction d'une limite de cinq ans pour les ccréditations délivrées par la
CCEA au personnel exploitant des centrales nucléaires - Intervention par le Syndicat des travailleurs
et travailleuses de secteur énergétique

99-145.4 1999-10-19 (1-3-1-7)

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations Personnel at Nuclear Power Plants (NPP) - Appearance by Shift Supervisors and Control Room First Operators at Hydro-Québec

Mise à jour relative à l'introduction d'une limite de cinq ans pour les ccréditations délivrées par la CCEA au personnel exploitant des centrales nucléaires - Intervention par les chefs de quart et les premiers opérateurs de salle de commande d'Hydro-Québec

99-145.5 1999-10-19 (1-3-1-7)

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations Personnel at Nuclear Power Plants (NPP) - Appearance by Shift Supervisors and Control Room Operators at New Brunswick Power

Mise à jour relative à l'introduction d'une limite de cinq ans pour les ccréditations délivrées par la CCEA au personnel exploitant des centrales nucléaires - Intervention les chefs de quart et les opérateurs de salle de commande d'Énergie Nouveau-Brunswick

99-145.5A 1999-10-29 (1-3-1-7)

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations Personnel at Nuclear Power Plants (NPP) - Appearance by Shift Supervisors and Control Room Operators at New Brunswick Power - Additional Information

Mise à jour relative à l'introduction d'une limite de cinq ans pour les ccréditations délivrées par la CCEA au personnel exploitant des centrales nucléaires - Intervention par les chefs de quart et les opérateurs de salle de commande d'Énergie Nouveau-Brunswick - Information supplémentaire

99-145.6 1999-10-19 (1-3-1-7)

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations Personnel at Nuclear Power Plants (NPP) - Appearance by Mr. John M. A. Brown

Mise à jour relative à l'introduction d'une limite de cinq ans pour les ccréditations délivrées par la CCEA au personnel exploitant des centrales nucléaires - Intervention par monsieur John M. A. Brown

99-145.6A 1999-10-27 (1-3-1-7)

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations Personnel at Nuclear Power Plants (NPP) - Appearance by Mr. John M. A. Brown - Additional Information

Mise à jour relative à l'introduction d'une limite de cinq ans pour les ccréditations délivrées par la CCEA au personnel exploitant des centrales nucléaires - Intervention par monsieur John M. A. Brown - Information supplémentaire

99-146 1999-10-19 (37-2-2-6)

Ontario Power Generation Bruce Nuclear Power Development, Site 2 Dry Fuel Storage Facility Construction Approval

Ontario Power Generation Autorisation de construire l'installation de stockage à sec du combustible irradié à l'aire n° 2 du complexe nucléaire de Bruce

99-146.1 1999-10-19 (1-3-1-7)

Ontario Power Generation Bruce Nuclear Power Development, Site 2 Dry Fuel Storage Facility Construction Approval - Submission from Inverhuron and District Ratepayers' Association Ontario

Power Generation Autorisation de construire l'installation de stockage à sec du combustible irradié à l'aire n° 2 du complexe nucléaire de Bruce - Mémoire de Inverhuron and District Ratepayers' Association

99-146.1A 1999-10-20 (1-3-1-7)

Ontario Power Generation Bruce Nuclear Power Development, Site 2 Dry Fuel Storage Facility Construction Approval - Submission from Inverhuron and District Ratepayers' Association - Additional Information

Ontario Power Generation Autorisation de construire l'installation de stockage à sec du combustible irradié à l'aire n° 2 du complexe nucléaire de Bruce - Mémoire de Inverhuron and District Ratepayers' Association - Information supplémentaire

99-146.2 1999-10-19 (1-3-1-7)

Ontario Power Generation Bruce Nuclear Power Development, Site 2 Dry Fuel Storage Facility Construction Approval - Response to Inverhuron and District Ratepayers' Association

Ontario Power Generation Autorisation de construire l'installation de stockage à sec du combustible irradié à l'aire n° 2 du complexe nucléaire de Bruce - Réponse à l'Inverhuron and District Ratepayers' Association

99-146.3 1999-10-19 (1-3-1-7)

Ontario Power Generation Bruce Nuclear Power Development, Site 2 Dry Fuel Storage Facility Construction Approval - Appearance by Ontario Power Generation

Ontario Power Generation Autorisation de construire l'installation de stockage à sec du combustible irradié à l'aire n° 2 du complexe nucléaire de Bruce - Intervention par Ontario Power Generation

99-146.4 1999-10-19 (1-3-1-7)

Ontario Power Generation Bruce Nuclear Power Development, Site 2 Dry Fuel Storage Facility Construction Approval - Submission from Chippewas of Nawash First Nation

Ontario Power Generation Autorisation de construire l'installation de stockage à sec du combustible irradié à l'aire n° 2 du complexe nucléaire de Bruce - Mémoire de la Première nation Chippewas de Nawash

99-146.5 1999-10-19 (1-3-1-7)

Ontario Power Generation Bruce Nuclear Power Development, Site 2 Dry Fuel Storage Facility Construction Approval - Submission from Citizens for Renewable Energy

Ontario Power Generation Autorisation de construire l'installation de stockage à sec du combustible irradié à l'aire n° 2 du complexe nucléaire de Bruce - Mémoire de Citizens for Renewable Energy

99-146.5A 1999-10-29 (1-3-1-7)

Ontario Power Generation Bruce Nuclear Power Development, Site 2 Dry Fuel Storage Facility Construction Approval - Submission from Citizens for Renewable Energy - Additional Information
Ontario Power Generation Autorisation de construire l'installation de stockage à sec du combustible irradié à l'aire n° 2 du complexe nucléaire de Bruce - Mémoire de Citizens for Renewable Energy - Information supplémentaire

99-146.6 1999-10-21 (1-3-1-7)

Ontario Power Generation Bruce Nuclear Power Development, Site 2 Dry Fuel Storage Facility Construction Approval - Submission from Ontario Power Generation
Ontario Power Generation Autorisation de construire l'installation de stockage à sec du combustible irradié à l'aire n° 2 du complexe nucléaire de Bruce - Mémoire d'Ontario Power Generation

99-147 1999-10-19 (37-15-0-0)

University of Toronto Radioactive Waste Management Facility Licence
Université de Toronto Permis d'exploitation d'installation de gestion de déchets radioactifs

99-148 1999-11-04 (29-1-75-1-0)

University of Ottawa Heart Institute, Particle Accelerator Nuclear Facility Construction Approval
Institut de cardiologie de l'Université d'Ottawa Approbation pour construire une installation nucléaire d'accélérateur de particules

99-149 1999-11-04 (26-7-0-0-0)

AECB Staff Report on the Status of Ontario Power Generation's NAOP Based Integrated Improvement Program
Rapport des agents de la CCEA sur l'état du programme d'amélioration intégré basé sur le POBPN d'Ontario Power Generation

99-149.1 1999-10-19 (1-3-1-7)

AECB Staff Report on the Status of Ontario Power Generation's NAOP Based Integrated Improvement Program - Appearance by Ontario Power Generation
Rapport des agents de la CCEA sur l'état du programme d'amélioration intégré basé sur le POBPN d'Ontario Power Generation - Intervention par Ontario Power Generation

99-149.1A 1999-11-01 (1-3-1-7)

AECB Staff Report on the Status of Ontario Power Generation's NAOP Based Integrated Improvement Program - Appearance by Ontario Power Generation - Revised text of presentation
Rapport des agents de la CCEA sur l'état du programme d'amélioration intégré basé sur le POBPN d'Ontario Power Generation - Intervention par Ontario Power Generation - Texte révisé du mémoire

99-150 1999-10-18 (13-1-29-0)

AECB Staff Comments on the report from the Advisory Committee on Nuclear Safety, ACNS-23: Transport of Radioactive Material in Canada
Commentaires des agents de la CCEA sur le rapport du Comité consultatif de la sûreté nucléaire CCSN-23 : Le transport des matières radioactives au Canada

99-151 1999-10-19 (15-200/28-0-0)

Radium Licensing

Octroi des permis pour la possession de radium

99-152 1999-10-18 (13-1-28-0;13-1-29-0;20-1-9-0)

Report on Activities of the Advisory Committees and of the Medical Advisers

Rapport d'activités des comités consultatifs et des conseillers médicaux

99-153 1999-10-19 (34-1-0-0)

Annual Report of the Non-proliferation, Safeguards and Security Division for the Fiscal Year 1998/99

Rapport annuel pour l'exercice 1998-99 de la Division de la non-prolifération, des garanties et de la sécurité