

Minutes of the 299th Meeting of the Atomic Energy Control Board held in the Public Hearing Room, AECB Offices, 280 Slater Street, Ottawa, Ontario, Thursday, May 25, 2000, beginning at 8:30 a.m.

Present:

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

Absent:

Dr. A.J. Carty
Dr. C.R. Barnes

G.C. Jack, Secretary

A. Nowack, Senior Counsel

B. Gerestein, Recording Secretary

Board staff advisers were: A. Aly, R. Cawthorn, F. De Pasquale, P. Eyre, J. Harvie, P. Hawley, D. Howard, R. Irwin, M. James, C. McDermott, K. Lafrenière, K. Pereira, A. Régimbald, G. Schwarz, R. Thomas, P. Thompson, J. Waddington and P. Webster.

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 the meeting having been properly given (BMD 00-73) 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.

The Chair noted that this is the last scheduled meeting of the Atomic Energy Control Board since the Canadian Nuclear Safety Commission will come into existence on May 31, 2000. The Chair thanked AECB staff for their dedicated efforts over many years in bringing the new legislation into effect. The Chair also thanked all those persons who assisted in the development of the new Act and regulations through the consultative process including members of the public, representatives of interest groups and industry, and officials from other government departments and agencies.

3. Since the meeting of April 26 and 27, 2000, Board Member Documents BMD 00-73 to BMD 00-88 had been distributed to Members. These documents are further detailed in Annex A of these minutes.

Adoption of Agenda

4. The updated agenda, BMD 00-74.1, was adopted as presented.

DECISION

Preliminary List of Agenda Items for the June 29, 2000, Board Meeting

5. Members received for information the preliminary list of agenda items for the next meeting of the Board, June 29, 2000; reference BMD 00-75 and BMD 00-75.1.

Minutes of the 298th Meeting of the Board, April 26 and 27, 2000

6. On motion duly moved and seconded, the Board approved the draft minutes of the 298th meeting; reference BMD 00-76.

DECISION

Business Arising

7. The Board received for information the report on business arising from the previous minutes, as itemized in BMD 00-77.

Significant Development Report

8. Members reviewed Significant Development Report No. 2000-5 with staff who provided updates; reference BMD 00-78 and BMD 00-78A.

Power Reactors: As a follow-up to Significant Development Report No. 2000-4, presented at the April 26, 2000 meeting of the Board, Ontario Power Generation (OPG), represented by W. Robinson, gave a presentation on the April 4, 2000 incident involving contaminated drums sent from Pickering nuclear generating station to a scrap metal dealer; reference BMD 00-78.1 and BMD 00-78.1A. W. Robinson provided a description of the event, actions taken, causes and corrective actions to ensure such events do not recur. He indicated that OPG has not been able to determine the source of the contamination. He stated that the event was a human performance event in that procedures and processes in place were not followed. W. Robinson concluded by noting that the event did not present a threat to the health and safety of the public and that appropriate corrective actions are now in progress to ensure adequate monitoring.

Members discussed this incident with W. Robinson and reviewed delays in implementing changes, the situation at other reactor facilities, possible impacts of cost-cutting as a causal factor, and OPG staff training. In response to a Member's question about radiation surveys taken prior to transporting the drums, W. Robinson indicated that the spot checks undertaken were inappropriate.

Members expressed concern over the number of failures which included inadequate monitoring and shipping back to OPG without proper approvals in place. Members discussed with OPG representatives and AECB staff handling procedures and requirements. Both AECB and Transport Canada requirements exist and must be followed. In response to a Member's question about monitoring at other reactor sites, AECB staff stated that appropriate portal monitoring is in place at Gentilly-2 NGS and is being commissioned at Point Lepreau NGS.

G. Preston, OPG, noted that this experience will be shared with other OPG stations and operators of other nuclear power stations._

Status of Legal Issues.

9. Members received from Senior Counsel the report on the Status of Legal Issues; reference BMD 00-79. Senior Counsel also provided an update on prosecutions involving DEVCO and AECL.

Next meetings of the Board

10. The Chair noted that the next meetings of the Board will be held June 29, 2000 in Ottawa, Ontario and August 16, 2000 in Ottawa, Ontario. Submission deadlines for these meetings will be announced May 31, 2000, following the coming into force of the *Nuclear Safety and Control Act*.

Ontario Power Generation - Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility

11. Members received for consideration the application of Ontario Power Generation (OPG), Toronto, Ontario, for renewal of the Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility Operating Licence. G. Preston and K. Nash, OPG, gave a presentation in support of the application following BMD 00-80.1 and BMD 00-80.1A. The presentation covered various topics including waste volumes to be stored, emissions and measures taken to reduce emissions. A two-year operating licence was requested.

AECB staff gave a presentation on the subject application; reference BMD 00-80. Staff provided an update to information presented in BMD 00-44 at the March 23, 2000 meeting of the Board. Staff noted that the Federal Court dismissed the application for judicial review filed by the Inverhuron and District Ratepayers Association.

Members discussed with the OPG representatives and AECB staff

topics including radiation levels and tritium emissions from the facility.

H. Ribey, South Bruce Impact Advisory Committee, gave a presentation in support of the subject application; reference BMD 00-80.2.

Mayor G. Jarrell, Municipality of Kincardine, gave a presentation in support of the subject application; reference BMD 00-80.3. In response to a Member's question relating to emission monitoring, Mayor Jarrell indicated that he was aware of the monitoring.

S. Kleinau, Citizens for Renewable Energy, outlined concerns of the organization relating to the licence renewal; reference BMD 00-80.4 and BMD 00-80.4A. S. Kleinau also expressed concern over fire safety and emissions. In response to a question from the Chair on C-14 emissions from the waste management site, AECB staff indicated that monitoring undertaken by OPG will continue to track C-14 releases and results will be made publicly available.

Members received for consideration a written submission from G. Thomas and R. Roman, Bruce Peninsula Environment Group, expressing concerns regarding the licence renewal request; reference BMD 00-80.5.

Members received for consideration a written submission from M. Wooster, Great Lakes United, expressing concerns regarding the licence renewal request; reference BMD 00-80.6.

Members received for consideration a written submission from F. Mackesy expressing concerns regarding the licence renewal request; reference BMD 00-80.7. In response to a statement in F. Mackesy's submission, OPG representatives stated that no high level waste will come to the proposed facility from sites other than Bruce NPD. (Continued in item 20)

(The meeting recessed at 10:40 a.m. for 15 minutes.)

Canadian Light Source Incorporated at the University of Saskatchewan

12. This matter was deleted from the agenda and postponed to the June 29, 2000 meeting; reference BMD 00-81.

Ontario Power Generation- Bruce Nuclear Generating Station A

13. Members received for initial consideration the application of Ontario Power Generation (OPG), Toronto, Ontario, for renewal of the Power Reactor Operating Licence for the Bruce Nuclear Generating Station A, County of Bruce, Ontario; reference BMD 00-82.1. The station is in a defuelled guaranteed shutdown state. G. Preston and R.

Nixon, OPG, gave a presentation in support of the application following the overheads in BMD 00-82.1. The presentation covered the status of the station, impact of station operation, staffing, emergency response and security, and a review of station performance during the previous licensing period.

Members received a presentation from AECB staff on the subject application; reference BMD 00-82. Staff noted that the station would remain in a defuelled shutdown state unless further approvals are made by the AECB. Staff reviewed topics including communications with the public, licensing basis, licensee's performance during the previous period including environmental performance, decommissioning plans, and proposed changes to the current licence.

Members discussed with the OPG representatives and AECB staff a number of issues including chemistry control regarding heavy water, staffing and deployment, issues noted in the AECB staff BMD as being "conditionally acceptable", fire protection and C-14 levels in fish.

Members received a presentation from S. Kleinau, Citizens for Renewable Energy, expressing concerns regarding the subject application; reference BMD 00-82.2. S. Kleinau provided Members with a May 8, 2000 article from the Globe and Mail newspaper relating to Chernobyl (attached). With respect to financial guarantees for decommissioning, the Chair noted that financial guarantees will be pursued once the new Act is in place. (Continued in item 21)

Hamilton Health Sciences Corporation

14. Members received for initial consideration a presentation from AECB staff on the application of Hamilton Health Sciences Corporation, Hamilton, Ontario, for a Particle Accelerator Facility Operating Licence; reference BMD 00-83 and attached overheads. The application results from a change in ownership of the facility to take effect if the licence is approved. AECB staff noted that, if approved, the facility will go from a life-cycle licence to a four-year licence in order to allow for appropriate regulatory oversight under the new ownership. (Continued in item 22)

Agriculture and Agri-Food Canada

15. Members received for initial consideration a presentation from AECB staff on the application of Agriculture and Agri-Food Canada, Ste-Hyacinthe, Quebec, for an Operating Licence for a Pool-Type Irradiator; reference BMD 00-84 and attached overheads. (Continued in item 23)

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

AECB Staff Report on the Status of OPG's Integrated Improvement Program

16. Members received a presentation from G. Preston, P. Charlebois and A. Schwabe, OPG, regarding the Integrated Improvement Program; reference BMD 00-85.1 and BMD 00-85.1A. The presentation covered topics including an overview of the IIP, implementation accomplishments, IIP realignment strategy and a summary.

Members reviewed with AECB staff the staff report on the status of Ontario Power Generation's (OPG's) Nuclear Asset Optimization Plan (NAOP) based Integrated Improvement Plan (IIP); reference BMD 00-85 and attached overheads. AECB staff outlined developments since November 1999, staff assessments of OPG progress, a summary of results and future progress expected.

In response to a Member's question about the development of 57 milestones, AECB staff indicated that they are developed in conjunction with OPG. Members discussed with the OPG representatives the impact of the IIP on station staff. OPG indicated that the workplace climate continues to improve and reviewed the situation at each station. It was noted that station staff are engaged in small working groups and are taking an active role in implementation of the IIP. G. Preston indicated that relations with unionized workers are better than they have been over the past three years, notwithstanding the uncertainty due to ongoing and planned changes, including a possible change in ownership.

AECB Staff Annual Report for 1999 on the Canadian Nuclear Power Industry

17. Members received for information the AECB staff annual report for 1999 on the Canadian nuclear power industry; reference BMD 00-86 and attached overheads. The report focussed on health and safety, security and environmental performance and concluded by noting that all stations operated safely during the period.

In response to a Member's question about Gentilly-2 NGS, AECB staff indicated that the facility does not have a specific improvement program.

Members discussed with AECB staff and R. White, NB Power; P. Charlebois, OPG; and M. Rhéaume, Hydro-Québec, issues including research and development funding, human performance, quality assurance, and issues listed as being "conditionally acceptable" in the

AECB staff report.

Update on the Introduction of a Limit of Five Years on AECB Authorizations for Operations Personnel at Nuclear Power Plants

18. Members received for information the AECB staff update report on the introduction of a limit of five years on AECB authorizations for operations personnel at nuclear power plants; reference BMD 00-87. Staff provided an update on the meeting held April 12, 2000 with OPG representatives.

Annual Report of the AECB Research and Support Program for 1998/99

19. Members received for information the AECB staff annual report on the AECB Research and Support Program for fiscal year 1998-1999; reference BMD 00-88. Members discussed with AECB staff the reduction in research and development funding relative to some previous years.

(The meeting continued in camera at 2:30 p.m.)

Ontario Power Generation - Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility (Continued from item 11)

20. Having received and heard the presentations from the applicant, AECB staff and intervenors, the Board approved the issuance of a Waste Management Facility Operating Licence to Ontario Power Generation, Toronto, Ontario, for the Bruce Nuclear Power Development Radioactive Waste Operations Site 2, County of Bruce, Ontario, for a two-year period to May 31, 2002.

DECISION

Ontario Power Generation- Bruce Nuclear Generating Station A (Continued from item 13)

21. Having received and heard the presentations from the applicant, AECB staff and intervenor, the Board gave initial consideration to the application of Ontario Power Generation, Toronto, Ontario, for a Nuclear Power Reactor Operating Licence for the Bruce Nuclear Generating Station A, County of Bruce, Ontario.

**INITIAL
CONSIDERATION**

Hamilton Health Sciences Corporation (Continued from item 14)

22. Having received and heard the presentation from AECB staff, the Board gave initial consideration to the application of Hamilton Health Sciences Corporation, Hamilton, Ontario, for a Particle Accelerator

INITIAL

2000-05-25

Operating Licence for the McMaster University Medical Centre
Campus, Hamilton, Ontario.

CONSIDERATION

Agriculture and Agri-Food Canada (Continued from item 15)

23. Having received and heard the presentation from AECB staff, the Board gave initial consideration to the application of Agriculture and Agri-Food Canada, Ste-Hyacinthe, Québec, for an Operating Licence for a Pool-Type Irradiator.

INITIAL
CONSIDERATION

Closing

24. The meeting closed on consensus at 3 p.m.

Chair

Recording Secretary

Secretary

ANNEX A / ANNEXE A

BMD DATE File File No / n° de dossier

00-73 2000-04-27 (1-3-1-5)
Notice of meeting
Avis de convocation

00-74 2000-05-09 (1-3-1-5)
Agenda of the 299th Meeting of the Atomic Energy Control Board to be held in the Public Hearing Room, 14th floor, 280 Slater Street, Ottawa, Ontario, Thursday May 25, 2000 beginning at 8:30 a.m.
L'ordre du jour de la 299e réunion de la Commission de contrôle de l'énergie atomique qui se tiendra dans la salle des audiences publiques, au 14e étage du 280, rue Slater, Ottawa (Ontario), le jeudi 25 mai 2000, à compter de 8 h 30.

00-74.1 2000-05-24 (1-3-1-5)
Agenda of the 299th Meeting of the Atomic Energy Control Board to be held in the Public Hearing Room, 14th floor, 280 Slater Street, Ottawa, Ontario, Thursday May 25, 2000 beginning at 8:30 a.m. Update
L'ordre du jour de la 299e réunion de la Commission de contrôle de l'énergie atomique qui se tiendra dans la salle des audiences publiques, au 14e étage du 280, rue Slater, Ottawa (Ontario), le jeudi 25 mai 2000, à compter de 8 h 30. Mise à jour

00-75 2000-05-09 (1-3-1-5)
Preliminary List of Agenda items for the Board meeting of June 29, 2000
Liste préliminaire des points à l'ordre du jour de la réunion du 29 juin 2000 de la Commission

00-75.1 2000-05-09 (1-3-1-5)
Preliminary List of Agenda items for the Board meeting of June 29, 2000 - Update
Liste préliminaire des points à l'ordre du jour de la réunion du 29 juin 2000 de la Commission -
Mise à jour

00-76 2000-05-09 (1-3-1-5)
Minutes of the 298th Board meeting held April 26 and 27, 2000
Procès-verbal de la 298e réunion de la Commission des 26 et 27 avril 2000

00-77 2000-04-09 (1-3-1-5)
Business arising from Atomic Energy Control Board meetings
Suivis des réunions de la Commission de contrôle de l'énergie atomique

00-78 2000-05-08 (1-3-1-5)
Significant Development Report No. 2000-5
Rapport des faits saillants n° 2000-5

00-78.A 2000-05-19 (1-3-1-5)
Significant Development Report No. 2000-5
Rapport des faits saillants n° 2000-5

00-78.1 2000-05-08 (1-3-1-5)
Significant Development Report No. 2000-5 - Appearance by Ontario Power Generation
Rapport des faits saillants n° 2000-5 - Intervention par Ontario Power Generation

00-78.1A 2000-05-08 (1-3-1-5)
Significant Development Report No. 2000-5 - Appearance by Ontario Power Generation -
Update
Rapport des faits saillants n° 2000-5 - Intervention par Ontario Power Generation
Mise à jour

00-79 2000-05-09 (2400-6-2)
Status of Legal Issues
État des questions juridiques

00-80 2000-05-09 (37-2-2-0)
Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations
Site 2 Waste Management Facility Operating Licence
Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs
du site n° 2 du complexe électronucléaire de Bruce

00-80.1 2000-05-09 (1-3-1-7)
Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations
Site 2 Waste Management Facility Operating Licence - Appearance by Ontario Power Generation
Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs
du site n° 2 du complexe électronucléaire de Bruce - Intervention par Ontario Power Generation

00-80.1A 2000-05-19 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility Operating Licence - Appearance by Ontario Power Generation
Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs du site n° 2 du complexe électronucléaire de Bruce - Intervention par Ontario Power Generation - Texte révisé du mémoire

00-80.2 2000-05-08 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility Operating Licence - Appearance by South Bruce Impact Advisory Committee

Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs du site n° 2 du complexe électronucléaire de Bruce - Intervention par South Bruce Impact Advisory Committee

00-80.3 2000-05-08 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility Operating Licence - Appearance by the Municipality of Kincardine

Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs du site n° 2 du complexe électronucléaire de Bruce - Intervention par la Municipalité de Kincardine

00-80.4 2000-05-08 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility Operating Licence - Appearance by Citizens for Renewable Energy

Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs du site n° 2 du complexe électronucléaire de Bruce - Intervention par Citizens for Renewable Energy

00-80.4A 2000-05-19 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility Operating Licence - Appearance by Citizens for Renewable Energy - Additional Information

Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs du site n° 2 du complexe électronucléaire de Bruce - Intervention par Citizens for Renewable Energy - Information supplémentaire

00-80.5 2000-05-08 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations

Site 2 Waste Management Facility Operating Licence - Submission from Bruce Peninsula Environment Group

Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs du site n° 2 du complexe électronucléaire de Bruce - Mémoire du Bruce Peninsula Environment Group

00-80.6 2000-05-08 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility Operating Licence - Submission from Great Lakes United
Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs du site n° 2 du complexe électronucléaire de Bruce - Mémoire du Great Lakes United

00-80.7 2000-05-08 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Power Development Radioactive Waste Operations Site 2 Waste Management Facility Operating Licence - Submission from Mrs. Florence Mackesy
Ontario Power Generation : Permis d'exploitation d'installation de gestion de déchets radioactifs du site n° 2 du complexe électronucléaire de Bruce - Mémoire de madame Florence Mackesy

00-81 2000-05-09 (29-1-2-4-0)

University of Saskatchewan: Particle Accelerator Nuclear Facility Construction Approval for Canadian Light Source Incorporated (Postponed until August 16, 2000)
University of Saskatchewan : Approbation de construire une installation nucléaire d'accélérateur de particules pour Canadian Light Source Incorporated
(Reporté au 16 août 2000)

00-82 2000-05-09 (26-1-0-0-0)

Ontario Power Generation: Bruce Nuclear Generating Station A Operating Licence
Ontario Power Generation : Permis d'exploitation pour la centrale Bruce A

00-82.1 2000-05-09 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Generating Station A Operating Licence - Appearance by Ontario Power Generation
Ontario Power Generation : Permis d'exploitation pour la centrale Bruce A - Intervention par Ontario Power Generation

00-82.2 2000-05-08 (1-3-1-7)

Ontario Power Generation: Bruce Nuclear Generating Station A Operating Licence - Appearance by Citizens for Renewable Energy

Ontario Power Generation : Permis d'exploitation pour la centrale Bruce A - Intervention par Citizens for Renewable Energy

00-83 2000-05-09 (29-1-12-3-0)

Hamilton Health Sciences Corporation (McMaster University Medical Centre): Particle Accelerator Facility Operating Licence

Hamilton Health Sciences Corporation (McMaster University Medical Centre) : Permis d'exploitation d'une installation nucléaire d' accélérateur de particules

00-84 2000-05-09 (42-2-1-3)

Agriculture and Agri-Food Canada: Class II Operating Licence for a pool-type irradiator

Agriculture et Agroalimentaire Canada : Permis d'exploitation de catégorie II pour un irradiateur de type piscine

00-85 2000-05-09 (26-7-0-0)

AECB Staff Report on the Status of Ontario Power Generation's Nuclear Asset Optimization Plan (NAOP) Based Integrated Improvement Program

Rapport des agents de la CCEA sur l'état du programme d'amélioration intégré basé sur le Plan d'optimisation des biens de production nucléaires (POBPN) d'Ontario Power Generation

00-85.1 2000-05-09 (1-3-1-7)

AECB Staff Report on the Status of Ontario Power Generation's Nuclear Asset Optimization Plan (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 Plan d'optimisation des biens de production nucléaires (POBPN) d'Ontario Power Generation - Intervention par Ontario Power Generation

00-85.1A 2000-05-19 (1-3-1-7)

AECB Staff Report on the Status of Ontario Power Generation's Nuclear Asset Optimization Plan (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 Plan d'optimisation des biens de production nucléaires (POBPN) d'Ontario Power Generation - Intervention par Ontario Power Generation - Texte révisé du mémoire

00-86 2000-05-09 (26-1-0-0-0)

AECB Staff Annual Report for 1999 on the Canadian Nuclear Power Industry
Rapport annuel du personnel de la CCEA sur les centrales nucléaires au Canada en 1999

00-87 2000-05-08 (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

Mise à jour relative à l'introduction d'une limite de cinq ans pour les accréditations délivrées par
la CCEA au personnel exploitant des centrales nucléaires

00-88 2000-05-08 (34-0-0-0)

Annual Report of the AECB Research and Support Program for the Fiscal Year 1998/99

Rapport annuel du programme de recherche et de soutien de la CCEA pour l'exercice 1998-99