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37-20-15-0

AMENDMENT

NUCLEAR RESEARCH AND TEST ESTABLISHMENT DECOMMISSIONING LICENCE

WHITESHELL LABORATORIES

I) LICENCE NUMBER: **NRTEDL- 02.01/2008**

II) LICENSEE: This licence is issued to

**Atomic Energy of Canada Limited–
L'Énergie atomique du Canada Itée
2251 Speakman Drive
Mississauga, Ontario
L5K 1B2**

III) AMENDMENT: **No. 2**

Pursuant to section 25 of the *Nuclear Safety and Control Act*, and paragraph 8(2)(h) of the *General Nuclear Safety and Control Regulations*, this licence is hereby amended as follows:

1) The amendment requiring reporting of transactions involving sealed sources takes place on January 1, 2006. Therefore, the licence period has been amended to reflect this change.

2) A new licence condition has been added:

"13. SEALED SOURCE TRACKING

Unless otherwise permitted by the prior written approval of the Commission or a person authorized by the Commission, the licensee shall, in respect of a radioactive nuclear substance set out in column 1 of the table below, report in writing to the Commission or a person authorized by the Commission any transfer, receipt, export or import of a sealed source whose corresponding activity is equal to or greater than the value set out in column 2 of the table:

- a) at least 7 days before any transfer or export, and
- b) within 48 hours of any receipt of a transfer or import.

Column 1	Column 2
Nuclear Substance	(TBq)
Americium 241	0.6
Americium 241/Beryllium	0.6
Californium 252	0.2
Curium 244	0.5
Cobalt 60	0.3
Cesium 137	1
Gadolinium 153	10
Iridium 192	0.8
Promethium 147	400
Plutonium 238	0.6
Plutonium 239/Beryllium	0.6
Radium 226	0.4
Selenium 75	2
Strontium 90 (Yttrium 90)	10
Thulium 170	200
Ytterbium 169	3

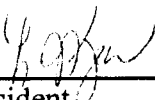
The written report shall be in a form acceptable to the Commission that includes:

- a) on transfer or export of a sealed source(s),
 - i) the date of transfer or export,
 - ii) the export licence number (where applicable),
 - iii) the name of the recipient and licence number, or
 - iv) the name of the importer,
 - v) the address of the recipient's or importer's authorized location,
 - vi) the nuclear substance (radionuclide),
 - vii) activity (radioactivity) (Bq) per sealed source on the reference date,
 - viii) the reference date,
 - ix) the number of sealed source(s),
 - x) the aggregate activity (Bq),
 - xi) the sealed source unique identifiers (if available), and
 - xii) where the sealed source is incorporated in a prescribed equipment,
 - (1) the name and model number of the equipment, and
 - (2) the equipment serial number (if available)

- b) on receipt or import of a sealed source(s),
 - i) the date of receipt of a transfer or import,
 - ii) the name of the shipper and licence number, or
 - iii) the name of the exporter,
 - iv) the address of the shipper's or exporter's authorized location,
 - v) the nuclear substance (radionuclide),
 - vi) activity (radioactivity) (Bq) per sealed source on the reference date,
 - vii) the reference date,
 - viii) the number of sealed source(s),
 - ix) the aggregate activity (Bq),
 - x) sealed source unique identifiers (if available), and
 - xi) where the sealed source is incorporated in a prescribed equipment,
 - (1) the name and model number of the equipment; and
 - (2) the equipment serial number (if available)"

The foregoing amendments are consolidated in the revised licence, Research and Test Establishment Decommissioning Licence Number NRTEDL-02.02/2008 attached hereto as Schedule 1. The licence is valid from January 1, 2006.

SIGNED at OTTAWA this 7th day of December, 2005.



Linda J. Keen, President,
on behalf of the Canadian Nuclear Safety Commission



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NUCLEAR RESEARCH AND TEST ESTABLISHMENT DECOMMISSIONING LICENCE

WHITESHELL LABORATORIES

- I) **LICENCE NUMBER:** **NRTEDL-02.02/2008**
- II) **LICENSEE:** Pursuant to section 24 of the *Nuclear Safety and Control Act*, this licence is issued to

**Atomic Energy of Canada Limited –
L'Énergie atomique du Canada ltée
2251 Speakman Drive
Mississauga, Ontario
L5K 1B2**

- III) **LICENCE PERIOD:** This licence is valid from **January 1, 2006, to December 31, 2008**, unless suspended, amended, revoked or replaced.

IV) **LICENSED ACTIVITIES:**

This licence authorizes the licensee, Atomic Energy of Canada Limited – L'Énergie atomique du Canada ltée (hereinafter "AECL"), to

- a) operate and decommission, as further defined in b) and c) below, the Whiteshell Laboratories (hereinafter "WL") located on the site described in the schedule to Atomic Energy Control Board Order 2/14/74, dated June 4, 1974, published in Part I of the Canada Gazette for June 8, 1974, and comprising the facilities described in Appendix B, Appendix C, Appendix D and Appendix E to this licence, in the documents cited therein, and in the document entitled *Documentation in Support of Site Licence Renewal for Whiteshell Laboratories*, RC-693-WL, Revision 5, dated 2002 May (hereinafter "RC-693") and listed in Appendix A;

- b) operate only those facilities listed in Appendix B;
- c) undertake decommissioning activities associated with only those facilities listed in Appendix D;
- d) produce, possess, process, refine, transfer, use, package, manage, and store the nuclear substances that are required for, associated with or arise from the activities described in a), b) and c);
- e) possess, use, produce and transfer prescribed equipment that is required for, associated with, or arises from the activities described in a), b) and c);
- f) possess, use and transfer prescribed information that is required for, associated with, or arises from the activities described in a), b) and c);
- g) import any nuclear substance within the following limitations: For its valid period, this licence does not authorize the licensee to import deuterium, heavy water (deuterium oxide) or any other deuterium compound in which the ratio of deuterium to hydrogen atoms exceeds 1:5,000 or to import more than
 - i) 37 TBq of tritium,
 - ii) 1 GBq of plutonium,
 - iii) 2 MBq of thorium 228 or 232,
 - iv) 200 MBq of enriched uranium 233,
 - v) 37 kBq of enriched uranium 235,
 - vi) 6 MBq of natural uranium, or
 - vii) 6 MBq of depleted uranium, except when incorporated as shielding in a radiation device; and
- h) export any nuclear substance within the following limitations: This licence does not authorize the licensee to export, for the valid period of this licence,
 - i) any quantity in any form of deuterium, thorium, tritium, plutonium or uranium;
 - ii) any quantity of the elemental form, any quantity of a compound or mixture greater than or equal to 37 GBq/kg, or any sealed source greater than or equal to 3.7 GBq of
 - 1) actinium 225, 227;
 - 2) californium 248, 250, 252, 253, 254;
 - 3) curium 240, 241, 242, 243, 244;
 - 4) einsteinium 252, 253, 254, 255;
 - 5) fermium 257;
 - 6) gadolinium 148;
 - 7) mendelevium 258;
 - 8) neptunium 235;
 - 9) polonium 208, 209, 210; or
 - 10) radium 223;

- iii) any quantity of americium 241 or 243, except in a compound or mixture, or any sealed source or device;
- iv) any quantity of neptunium 237, except in a compound or mixture, or any sealed source or device;
- v) any quantity of radium 226, or any quantity of a compound or mixture of radium 226; or
- vi) any sealed source or device (except for medical applicators) of more than 0.37 GBq of radium 226.

V) CONDITIONS:

1. GENERAL

- 1.1 The appendices attached to this licence and the contents of the documents cited in those appendices form part of this licence.
- 1.2 Unless otherwise indicated in this licence, the licensee shall not make any change to any of the documents listed in the appendices to this licence without the prior written approval of the Canadian Nuclear Safety Commission (hereinafter "the Commission") or a person authorized by the Commission.

Amendment of the licence is not required prior to the licensee's implementation of a proposed change that has been approved in writing by the Commission or a person authorized by the Commission. An approved change is deemed to be part of this licence.

- 1.3 Unless otherwise indicated in this licence, the licensee may make any change to AECL's compliance and additional program manual documents cited in section 3 of RC-693 provided the changes are made in accordance with the following requirements:

Before a change can be made, it must be justified and subjected to the same level of review and approval within AECL as was originally obtained.

- 1.4 The licensee shall not change the ownership, possession or use of lands described in the schedule to Atomic Energy Control Board Order 2/14/74, dated June 4, 1974, published in Part I of the Canada Gazette for June 8, 1974, without the prior written approval of the Commission or a person authorized by the Commission.

2. DECOMMISSIONING AND RESIDUAL OPERATIONS

- 2.1 Unless otherwise indicated in this licence, the licensee shall operate WL in accordance with the documents listed in Appendix A to this licence, with the documents listed opposite the facility in column 2 of Appendix B to this licence, and in accordance with AECL's compliance and additional program manual documents cited in section 3 of RC-693, as revised in accordance with condition 1.3.

- 2.2 For facilities listed in Appendix C, the licensee shall, unless otherwise indicated in this licence, undertake monitoring and surveillance activities in accordance with the documents listed opposite the facility in column 2 of Appendix C to this licence and with AECL's compliance and additional program manual documents cited in section 3 of RC-693, as revised in accordance with condition 1.3.
- 2.3 For any permanently shutdown facility or part of a permanently shutdown facility, for which documents are not yet listed in column 2 opposite the facility in Appendix C, the licensee
- a) shall inspect the facility daily (weekdays) to assure that the safe shutdown state is being maintained;
 - b) shall not introduce into the facility materials or equipment that are not related to maintaining the safe shutdown state of the facility; and
 - c) shall not carry out any activity that is not related to maintaining the facility in its safe shutdown state.
- 2.4 For facilities listed in Appendix D, the licensee shall, unless otherwise indicated in this licence, undertake decommissioning activities in accordance with the documents listed opposite the facility in column 2 of Appendix D to this licence and with AECL's compliance and additional program manual documents cited in section 3 of RC-693, as revised in accordance with condition 1.3.
- 2.5 Unless otherwise approved in writing by the Commission or a person authorized by the Commission, the licensee shall test every system associated with a facility listed in Appendix B, Appendix C and Appendix D to this licence at a frequency to substantiate the reliability that is claimed or implied in the document respecting that facility listed in Appendix B, Appendix C and Appendix D.
- 2.6 Unless otherwise approved in writing by the Commission or a person authorized by the Commission, the licensee shall maintain every facility listed in Appendix B, Appendix C and Appendix D at a standard and frequency to substantiate the reliability and effectiveness that is claimed or implied in the document respecting that facility listed in Appendix B, Appendix C and Appendix D.
3. MODIFICATIONS
- 3.1 The licensee shall not construct, install or modify any facility, building, structure, component or equipment described in the documents cited in Appendix B, Appendix C or Appendix D or any of the facilities listed in Appendix E if that construction, installation or modification would render inaccurate the information contained in those documents, result in adverse impact on health, safety or the environment that is different in nature or greater in probability than that described in those documents, or otherwise adversely affect the safe conduct of the activities described in Part IV of this licence, without the prior written approval of the Commission or a person authorized by the Commission.

- 3.2 The licensee shall not make modifications to or deviate from the design, operating conditions, purposes, methods, procedures or limits described in the documents cited in Appendix B, Appendix C or Appendix D that would render inaccurate the information contained in those documents, result in an adverse impact on health, safety or the environment that is different in nature or greater in magnitude or probability than that described in those documents, or otherwise adversely affect the safe conduct of the activities described in Part IV of this licence, without the prior written approval of the Commission or a person authorized by the Commission.

4. PRESSURE BOUNDARIES

For the purposes of the following conditions of this section, “registered”, “accepted”, “approval” and “approved” mean either by the Commission, by a person authorized by the Commission or by an authority identified by the Commission for that purpose.

- 4.1 The licensee shall design, manufacture, fabricate, procure, install, modify, repair, test, examine, inspect or otherwise perform work related to vessels, boilers, systems, piping, fittings, parts, components and supports according to the specifications in CSA standards N285.0-95, B51-95 or other codes and standards approved or prescribed by the Commission. For code classification, the licensee shall apply the rules in CSA standard N285.0-81. Where indicated by these standards, the licensee shall obtain the following regulatory approvals for this work:
- a) registered designs;
 - b) accepted overpressure protection reports;
 - c) approval of applicable standards and code classification;
 - d) registered welding and brazing procedures;
 - e) qualified welders, welding operators, brazers and examination personnel;
 - f) accepted quality assurance programs; and
 - g) accepted plans and procedures.
- 4.2 The licensee shall operate vessels, boilers, systems, piping, fittings, parts, components, and supports safely and keep them in a safe condition. The licensee shall
- a) follow approved plans and procedures to test, maintain, or alter overpressure protection devices;
 - b) comply with operating limits specified in certificates, orders, designs, overpressure protection reports, and applicable codes and standards;
 - c) inspect and perform material surveillance according to accepted schedules, plans and procedures;
 - d) have any certified boiler or vessel that is in operation or use inspected and certified by an authorized inspector according to an accepted schedule; and
 - e) ensure that vessels, boilers, systems, piping, fittings, parts, components and supports have markings as specified in the applicable standards.

- 4.3 The licensee shall keep proper records of regulatory approvals and other documents required under conditions 4.1 and 4.2 and the standards applicable to the work or equipment.
- 4.4 In addition to any reporting requirements set out in condition 8.1 or in the requirements of the *Nuclear Safety and Control Act* and its associated regulations, the licensee shall report promptly to the Commission and to the Department of Labour of the Province of Manitoba when the licensee learns of any failure of a pressure boundary that has caused injury, death or property damage.

5. RADIATION AND ENVIRONMENTAL PROTECTION

- 5.1 The licensee shall operate and decommission WL according to the methods and procedures, for the purposes and within the limits described in *AECL's Radiation Protection Requirements*, listed in Appendix A.
- 5.2 The radiation emergency procedures shall be governed by and be in accordance with the *Whiteshell Laboratories Emergency Plan*, listed in Appendix A.
- 5.3 The licensee shall control, monitor and record releases of radioactive nuclear substances from WL, and such releases shall not exceed the limits identified in the document *Derived Release Limits for Airborne and Liquid Effluents for Whiteshell Laboratories During Normal Operation*, listed in Appendix A.
- 5.4 The licensee shall control, monitor and record releases of hazardous substances from WL.
- 5.5 The licensee shall conduct the environmental assessment follow-up and monitoring program in accordance with the document *Environmental Assessment Follow-up Program for Whiteshell Laboratories*, listed in Appendix A. The licensee shall report annually to the Commission, no later than April 30 of the following year, on the activities and the results of the follow-up program.

6. SAFEGUARDS

- 6.1 The licensee shall take all necessary measures to facilitate Canada's compliance with any applicable safeguards agreement.
- 6.2 The licensee shall provide the International Atomic Energy Agency, an International Atomic Energy Agency inspector or a person acting on behalf of the International Atomic Energy Agency with such reasonable services and assistance as are required to enable the International Atomic Energy Agency to carry out its duties and functions pursuant to a safeguards agreement.

- 6.3 The licensee shall grant prompt access at all reasonable times to all locations at WL to an International Atomic Energy Agency inspector, or to a person acting on behalf of the International Atomic Energy Agency, where such access is required for the purposes of carrying on an activity pursuant to a safeguards agreement. In granting access, the licensee shall provide health and safety services and escorts as required in order to facilitate activities pursuant to a safeguards agreement.
- 6.4 The licensee shall disclose to the Commission, to the International Atomic Energy Agency or to an International Atomic Energy Agency inspector any records that are required to be kept or any reports that are required to be made under a safeguards agreement.
- 6.5 The licensee shall provide such reasonable assistance to an International Atomic Energy Agency inspector or to a person acting on behalf of the International Atomic Energy Agency as is required to enable sampling and removal or shipment of samples required pursuant to a safeguards agreement.
- 6.6 The licensee shall provide such reasonable assistance to an International Atomic Energy Agency inspector or to a person acting on behalf of the International Atomic Energy Agency as is required to enable measurements, tests and removal or shipment of equipment required pursuant to a safeguards agreement.
- 6.7 The licensee shall, at the request of the Commission or a person authorized by the Commission, install safeguards equipment at WL.
- 6.8 The licensee shall permit an International Atomic Energy Agency inspector or a person acting on behalf of the International Atomic Energy Agency to service safeguards equipment at WL.
- 6.9 The licensee shall operate safeguards equipment at WL in accordance with the methods and procedures specified by the International Atomic Energy Agency.
- 6.10 The licensee shall provide the services required for the operation of the safeguards equipment at WL in accordance with the specifications of the International Atomic Energy Agency.
- 6.11 The licensee shall not interfere with or interrupt the operation of safeguards equipment at WL or alter, deface or break a safeguards seal, except pursuant to a safeguards agreement.
- 6.12 The licensee shall implement measures to prevent damage to or the theft, loss or sabotage of safeguards equipment or samples collected pursuant to a safeguards agreement or the illegal use, possession, operation or removal of such equipment or samples.
- 6.13 The licensee shall make such reports and provide such information to the Commission as are required to facilitate Canada's compliance with any applicable safeguards agreement.

- 6.14 The licensee shall not, except with the prior written approval of the Commission or a person authorized by the Commission, make changes to any aspect of WL, WL operation, WL equipment or procedures that would affect the implementation of safeguards measures.
- 6.15 The licensee shall make and submit to the Commission, in accordance with AECB-1049, *Reporting Requirements for Fissionable and Fertile Substances*, reports on the inventory and transfer of fissionable and fertile substances.

7. NUCLEAR SUBSTANCES

- 7.1 For nuclear substances other than those referred to in condition 6.15, the licensee shall keep records that describe fully and accurately
- a) the amount and type of nuclear substances released from WL into the environment;
 - b) the amount, type and location of nuclear substances placed into or removed from each waste management area; and
 - c) the production, acquisition and disposition of nuclear substances other than those referred to in a) and b).

8. REPORTING

- 8.1 The licensee shall immediately make reports to the Commission of any
- a) failure of equipment or procedures which led to or which, in the absence of safety systems provided, could have led to any release of nuclear substances from any facility described in Appendix B, Appendix C or Appendix D to this licence exceeding the derived release limits referred to in condition 5.3;
 - b) failure of a protective system which did prevent or could have prevented the system from performing in accordance with the document cited in Appendix B, Appendix C or Appendix D;
 - c) inaccuracy or incompleteness in the documents cited in condition 1.1 that could affect the results of the safety assessment in those documents;
 - d) hazard different in nature or greater in probability or magnitude than that described in the documents cited in condition 1.1; and
 - e) failure of any building structure or exterior envelope greater in magnitude than that described in the documents cited in condition 1.1.

- 8.2 The licensee shall prepare and submit to the Commission, at intervals specified in conditions 8.3 and 8.4, written reports that cover
- a) the operation and maintenance of the facilities listed in Appendix B, summarizing facility and equipment performance and changes, changes to operating policies, changes in organization, occurrences described in condition 8.1, occurrences reported under the requirements of the *Nuclear Safety and Control Act* and its associated regulations, personnel radiation exposures, releases of nuclear substances from the facilities, and releases of hazardous substances from the facilities;
 - b) the status of the facilities listed in Appendix C and Appendix D, summarizing facility and equipment performance and changes, changes to operating policies, changes in organization, occurrences described in condition 8.1, occurrences reported under the requirements of the *Nuclear Safety and Control Act* and its associated regulations, personnel radiation exposures, releases of nuclear substances from the facilities, and releases of hazardous substances from the facilities;
 - c) a summary of changes to the facilities and structures listed in Appendix E, including occurrences reported under the requirements of the *Nuclear Safety and Control Act* and its associated regulations;
 - d) changes to emergency authorities and organization, updates or changes to the radiation emergency procedures cited in condition 5.2, status/changes in other program documentation, training activities, drill and exercise activities, status of emergency resources and facilities, interactions with outside agencies, and unplanned events in which the emergency response organization has been tested;
 - e) the results of the effluent monitoring for radioactive nuclear substances referred to in condition 5.3, the effluent monitoring for hazardous substances referred to in condition 5.4 and personnel radiation exposures for WL; and
 - f) the results of environmental monitoring for nuclear substances and hazardous substances.
- 8.3 The licensee shall, by March 31 of each calendar year, submit to the Commission the reports described in conditions 8.2 a), 8.2 b), 8.2 c), 8.2 d) and 8.2 e) covering the preceding calendar year.
- 8.4 The licensee shall, by April 30 of each calendar year, submit to the Commission the reports described in condition 8.2 f) covering the preceding calendar year.
- 8.5 If any action level set out in Attachments 1, 4 and 5 to the March 19, 2002, letter titled *Action Levels*, from R.P. Lambert of AECL to W. Glenn Martin of the CNSC, is reached or exceeded, the licensee shall, within seven days of becoming aware of the matter, notify the Commission and shall file a final written report within 45 working days of becoming aware of the matter.

9. FIRE PROTECTION

- 9.1 The licensee shall design, build, modify and otherwise carry out work with the potential to impact protection from fire in accordance with the requirements of the *National Building Code, 1995*, and the *National Fire Code, 1995*, and shall annually provide to the Commission evidence of compliance with those requirements.

10. QUALITY ASSURANCE

- 10.1 The licensee shall submit, no later than October 31, 2005, and implement, no later than May 31, 2006, a Decommissioning Quality Assurance Program for Whiteshell Laboratories containing the changes and elements specified in the committed Quality Assurance Detailed Resolution Plan specified in the April 21, 2005 letter from G. Sotirov to L. Colligan.

11. FINANCIAL GUARANTEES

- 11.1 The licensee shall provide, no later than December 31, 2003, a financial guarantee acceptable to the Commission or a person authorized by the Commission.

12. SECURITY

- 12.1 The licensee shall maintain the measures for WL security as specified in the document *AECL, Whiteshell Laboratories, Site Security Plan*, listed in Appendix A.

13. SEALED SOURCE TRACKING

Unless otherwise permitted by the prior written approval of the Commission or a person authorized by the Commission, the licensee shall, in respect of a radioactive nuclear substance set out in column 1 of the table below, report in writing to the Commission or a person authorized by the Commission any transfer, receipt, export or import of a sealed source whose corresponding activity is equal to or greater than the value set out in column 2 of the table:

- a) at least 7 days before any transfer or export, and
- b) within 48 hours of any receipt of a transfer or import.

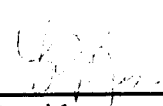
Column 1	Column 2
Nuclear Substance	(TBq)
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Promethium 147	400
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Radium 226	0.4
Selenium 75	2
Strontium 90 (Yttrium 90)	10
Thulium 170	200
Ytterbium 169	3

The written report shall be in a form acceptable to the Commission that includes:

- a) on transfer or export of a sealed source(s),
 - i) the date of transfer or export,
 - ii) the export licence number (where applicable),
 - iii) the name of the recipient and licence number, or
 - iv) the name of the importer,
 - v) the address of the recipient's or importer's authorized location,
 - vi) the nuclear substance (radionuclide),
 - vii) activity (radioactivity) (Bq) per sealed source on the reference date,
 - viii) the reference date,
 - ix) the number of sealed source(s),
 - x) the aggregate activity (Bq),
 - xi) the sealed source unique identifiers (if available), and
 - xii) where the sealed source is incorporated in a prescribed equipment,
 - (1) the name and model number of the equipment, and
 - (2) the equipment serial number (if available)

- b) on receipt or import of a sealed source(s),
- i) the date of receipt of a transfer or import,
 - ii) the name of the shipper and licence number, or
 - iii) the name of the exporter,
 - iv) the address of the shipper's or exporter's authorized location,
 - v) the nuclear substance (radionuclide),
 - vi) activity (radioactivity) (Bq) per sealed source on the reference date,
 - vii) the reference date,
 - viii) the number of sealed source(s),
 - ix) the aggregate activity (Bq),
 - x) sealed source unique identifiers (if available), and
 - xi) where the sealed source is incorporated in a prescribed equipment,
 - (1) the name and model number of the equipment; and
 - (2) the equipment serial number (if available)

SIGNED at OTTAWA, this 15 day of December, 2005.



Linda J. Keen, President,
on behalf of the Canadian Nuclear Safety Commission

APPENDIX A

DOCUMENTS PERTAINING TO DECOMMISSIONING AND RESIDUAL OPERATIONS

1. *AECL's Radiation Protection Requirements*, AECL Document No. RC-2000-633-0, Revision 2, 2000 October.
2. *Derived Release Limits for Airborne and Liquid Effluents from Whiteshell Laboratories During Normal Operation*, AECL Document No. RC-2303, Revision 0, 2001 March.
3. *Whiteshell Laboratories Emergency Plan*, AECL Document No. RC-2000-060-500, Revision 5, 2002 January.
4. *Documentation in Support of Site Licence Renewal for Whiteshell Laboratories*, AECL Document No. RC-693-WL, Revision 5, 2002 May.
5. *Environmental Assessment Follow-up Program for Whiteshell Laboratories*, AECL Document No. 03704-001, Revision 1, 2002 June.
6. *AECL, Whiteshell Laboratories, Site Security Plan*, Revision 2, April 2002.

APPENDIX B

OPERATING FACILITIES AT WHITESHELL LABORATORIES

Column 1	Column 2
Facility	Applicable document number and date of issue or revision
Concrete Canister Storage Facility Active-Liquid Waste Treatment Centre Shielded Facilities Waste Management Area Decontamination Centre (Building 411) Building 300 (Research and Development) Building 402 (Health and Safety) Building 418 (Fissionable Material Storage)	AECL-FA-22, Rev. 3, July 1998 AECL-FA-25, Rev. 3, July 1998 AECL-FA-26, Rev. 2, July 1998 AECL-FA-28, Rev. 3, July 1998

APPENDIX C

PERMANENTLY SHUTDOWN FACILITIES

Column 1 Facility	Column 2 Applicable Document(s)
WR-1 Reactor	AECL Document No. RC-1291-R1

APPENDIX D

FACILITIES BEING DECOMMISSIONED

Column 1 Facility	Column 2 Applicable Document(s)
Van de Graaff Accelerator	AECL Document No. RC-2143-3, Rev. 1
14 MeV Neutron Generator Facility	AECL Document No. RC-2143-4, Rev. 1

APPENDIX E

NON-NUCLEAR FACILITIES

Facility	Bldg. No.
ZEUS Control	302
Containment Test Facility	303
Gas Dynamics Research Laboratories	304
Gas Dynamics Equipment Storage	306
Diffusion Flame Facility	307
Large Scale Vented Combustion Test Facility	308
LSVCTF-Local Services	309
LSVCTF-Remote Control	310
LSVCTF-Hydrogen Storage	311
Steam Generator Storage	312
Engineering and Administration	400
Security and Reception	401
Vehicle Gate House	403
Meteorological Tower	404
Technical Information Centre	405
Cafeteria	406
Material Handling	408
Active Area Storage	409
Cafeteria Garbage Storage	410
Machine Shop and Maintenance	412
Waste Chemical Storage	413
Controlled Area 2 Entrance	414
Material Warehouse	415
Storage	416
Mobile Equipment Storage	420
Outfall Monitoring Station	422
WR-1 Organic Monitoring Building	424
Civil Storage #1	426
Mechanical Shop Storage #1	427
Mechanical Shop Storage #2	428
Civil Storage #2	429

Facility	Bldg. No.
Internal Friction Laboratory	500
Aquatic Toxicology Laboratory	501
Ecology Lab	503
Engineering Development and Test	504
Soils Research Laboratory	505
Civil Utility Building	509
Active Waste Storage #1	511-1
Active Waste Storage #2	511-2
Active Waste Storage #3	511-3
Active Waste Storage #4	511-4
Active Waste Storage #5	511-5
Drill Site Office	515
Building 300 Coffee Room	518
Controlled Environment Building	523
Meteorology Trailer #2	525
Borehole Instrumentation Test Facility	526
Inflammable Liquid Storage Building	527
Internal Friction Laboratory Annex	530
PCB Storage	531
Pump House	902
Water Filtration Plant	903
Fire Protection Water System	904
Process Water System	905
Storm Drainage System	906
Sewage Lift Station and Lagoons	907
Power House	911
Main Substation	913
Main Power Distribution	914
Communications System	916
Supervisory Control and Alarm	917
Clarified Water System	918
Pedestrian Links Between Buildings	921