



Appendix A to the Administrative Protocol for the Renewal of the Whiteshell Laboratories Licence and the Proposed *In Situ* Decommissioning of the WR-1 Reactor

Appendix A, Revision 1 - December 2017

e-Doc 5346164



Summary of Changes

Section	Changes	Date
Table 1	Revision to dates for environmental assessment	December 2017
Table 2	Revision to table headings	December 2017
Table 3	Revision to table headings and dates	December 2017

Appendix A, Revision 1 – December 2017

Table 1: Deliverable schedule for activities related to the environmental assessment (EA)

Milestone	Deliverable/activity	Lead	Duration (calendar days)	Submission date of deliverable
Initiation of EA	Submission of project description	CNL	N/A	May 5, 2016
	Public comment period on project description	CNSC	30 days (June 2 – July 4, 2016)	July 4, 2016
	Establishment of CNL-CNSC administrative protocol	CNSC	N/A	March 2017
Draft environmental impact statement (EIS)	Submission of draft EIS (English)	CNL	Deadline	September 15, 2017
	Submission of draft EIS (French)	CNL	Deadline	October 5, 2017
	Public comment period on draft EIS (Draft EIS in both official languages will only be posted on the Registry upon receipt of the French EIS)	CNSC	75 days (October 5 – December 19, 2017)	December 19, 2017
	Federal and provincial review of draft EIS and transmission of federal and provincial information requests/comments	CNSC	95 days ¹ (concurrent with public comment period: September 18 – December 22, 2017)	December 22, 2017
	CNSC review of public comments and transmission of public information requests/comments	CNSC	40 days (December 20, 2017 – January 29, 2018)	January 29, 2018
	CNL response to all federal, provincial and public information requests/comments	CNL	25 days (January 30 – February 23, 2018)	February 23, 2018
	Federal and provincial review of CNL response to federal, provincial and public information requests/comments	CNSC	30 days (February 24 – March 26, 2018)	March 26, 2018
Final EIS	Submission of final EIS or EIS addendum (English)	CNL	Deadline	April 16, 2018
	Submission of summary of EIS changes (French)	CNL	Deadline	May 16, 2018
	Federal and provincial review of final EIS (or EIS addendum) to confirm that information requests/comments on draft EIS have been addressed	CNSC	30 days ¹ (April 16 – May 16, 2018)	May 16, 2018
	Preparation of EA report and licensing Commission Member Document (CMD)	CNSC	108 days (April 16 – August 2, 2018)	August 2, 2018

¹ The final EIS will only be accepted when it has been deemed to adequately address comments to the satisfaction of the CNSC. Additionally, to the extent possible, any information gaps or clarifications needed, will be identified and communicated to CNL as early as possible in the review.

Milestone	Deliverable/activity	Lead	Duration (calendar days)	Submission date of deliverable
Commission Hearing ²	Submission of licensing CMD, including the EA report, to the Commission Secretariat	CNSC	Deadline	August 3, 2018
	Public intervention period on the licensing CMD, including the EA report	CNSC	30 days <i>(August 4 – September 3, 2018)</i>	September 3, 2018
	Commission Hearing (on the EA decision and licensing decision)	CNSC	October 3-4, 2018	

² The Commission Hearing for the EA decision and for the licensing decision will be held on the same date. The current dates are tentative and are based on the One-Part Hearing. However, those dates can be changed by the Secretariat, when finalizing the schedule for the 2018 Commission Hearings.

Table 2: Deliverable schedule for the licensing basis documents

Specific area	CNL document title	CNL Document reference number / CNSC e-Doc #	New Y/N	Date of submission	Duration for review by CNSC
GENERAL					
Other Matters of Regulatory Interest: Financial Guarantees		Letter from the Honourable Greg Rickford to Dr. Michael Binder, July 31, 2015, e-Doc 4815508	N	N/A, per existing licensing basis (LB) ³	Refer to table 3
Other Matters of Regulatory Interest: Licensee Public Information Program	Public Information Program for Atomic Energy of Canada Limited (AECL)	CW-513430-REPT-001 Revision 1 2014/09/30, e-Doc 544916/5014982	N		
	Whiteshell Laboratories: WR-1 Reactor Decommissioning Aboriginal Engagement Report	WLDP-26000-REPT-002	N		
DECOMMISSIONING – LC 2.1 Detailed Decommissioning Plans					
Waste management SCA: • Decommissioning plans	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 1 – Program Overview	Revision 5 to be submitted	Y	September 1, 2017	Refer to table 3
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 2 – Shielded Facilities	WLDP-21400-DDP-001 Revision 1 2016/07/26, e-Doc 5053776	N	N/A, per existing LB	
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 5 – Active Liquid Waste Treatment Centre Building 200	WLDP-25400-DDP-001 Rev 0 January 2011, e-Doc 4818031	N	N/A, per existing LB	
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 6 – Whiteshell Reactor #1: Building 100	Revision 3 to be submitted	Y	September 1, 2017	
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 9 – Building 300	WLDP-23500-DDP-001 Rev 0 March 2007, e-Doc 4818032	N	N/A, per existing LB	
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 9 – Building 300 Addendum	WLDP-23500-DDP-001_AD Rev 1 2016/08/05, e-Doc 5073927	N	N/A, per existing LB	

³ N/A, per existing licensing basis (LB) means that the identified documents currently form part of the licensing basis for Whiteshell Laboratories, relevant to the specific area. CNSC staff will review their applicability and adequacy for the proposed activities as part of the licence renewal review process.

Specific area	CNL document title	CNL Document reference number / CNSC e-Doc #	New Y/N	Date of submission	Duration for review by CNSC
Waste management SCA: • Decommissioning plans	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 10 – Decontamination Centre Building 411	WLDP-27400-DDP-001 Rev 0 January 2011, e-Doc 4818033	N	N/A, per existing LB	Refer to table 3
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 12 – Whiteshell Laboratories Licensed Site Supporting and General Infrastructure, Part 1: South-Side Buildings	RC-2143-12 Part 1 Rev 1 March 2006, e-Doc 4818035	N		
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 12 – Whiteshell Laboratories Licensed Site Supporting and General Infrastructure, Part 2: North-Side Buildings	WLDP-32000-DDP-001 Rev 0 March 2009, e-Doc 4818034	N		
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 12 – Whiteshell Laboratories Licensed Site Supporting and General Infrastructure, Part 3: Outer-Area Building and Facilities	WLDP-33000-DDP-001 Rev 1 August 2008, e-Doc 4818036	N		
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 12 – Whiteshell Laboratories Licensed Site Supporting and General Infrastructure, Part 4: Site Services	WLDP-34000-DDP-001 Rev 1 January 2013, e-Doc 4818037	N		
	Whiteshell Laboratories Detailed Decommissioning Plan: Volume 12 – Whiteshell Laboratories Licensed Site Supporting and General Infrastructure, Part 5: Site Affected Lands and Contaminated Structures	WLDP-35000-DDP-001 Rev 1 May 2012, e-Doc 4818038	N		
DECOMMISSIONING – LC 2.2 Decommissioning Policies, Programs and Procedures					
Management system SCA: Management system	Decommissioning Process Overview	CW-508300-OV-146 Revision 4 2013/09/23, e-Doc 5014919	N	N/A, per existing LB	Refer to table 3
	Whiteshell Laboratories Decommissioning QA Plan	AECL Document No. WLD-01913-QAP-001, Revision R3 September 2007, e-Doc 4780709	N		

Specific area	CNL document title	CNL Document reference number / CNSC e-Doc #	New Y/N	Date of submission	Duration for review by CNSC
Not a specific area in SCA framework	Information associated with the Licence Renewal for Whiteshell Laboratories	To be submitted	Y	September 1, 2017	Refer to table 3
Not a specific area in SCA framework	Regulatory compliance matrix associated with the licence renewal for the Whiteshell Laboratories	To be submitted	Y	September 1, 2017	
Fitness for Service SCA: Aging management	The Monitoring and Surveillance Plan for the WR-1 Deferment Period	RC-1291, R1, March 1996, e-Doc 5018383	N	N/A, per existing LB	
SAFETY AND CONTROL AREA – MANAGEMENT SYSTEM					
Management system	Management system	CW-514100-MAN-001 Revision 3 2015 August, e-Doc 5015000	N	N/A, per existing LB	Refer to table 3
SAFETY AND CONTROL AREA – HUMAN PERFORMANCE MANAGEMENT					
<ul style="list-style-type: none"> Human performance program 	Human performance	CW-145-514020-OV-001 Rev 0 2015/09/22, e-Doc 5018897	N	N/A, per existing LB	Refer to table 3
<ul style="list-style-type: none"> Personnel training 	AECL Systematic Approach to Training (SAT)	CW-510000-MAN-001 Revision 3 2012/11/30, e-Doc 5014968	N	N/A, per existing LB	
<ul style="list-style-type: none"> Human performance program Personnel training 	Operating Experience (OPEX) Program	CW-508750-OV-125 Revision 1 2015/04/24, e-Doc 5014959	N	N/A, per existing LB	
SAFETY AND CONTROL AREA – SAFETY ANALYSIS					
<ul style="list-style-type: none"> Deterministic safety analysis Hazard analysis Probabilistic safety analysis Criticality safety 	Safety Analysis Report for the <i>In Situ</i> Decommissioning of Building B100 and the WR-1 Reactor.	To be submitted	Y	September 1, 2017	Refer to table 3
<ul style="list-style-type: none"> Deterministic safety analysis Hazard analysis Probabilistic safety analysis Criticality safety 	Whiteshell Laboratories Active Liquid Waste Treatment Centre Safety Analysis Report	RC-1021, Revision 2 1998 February, e-Doc 5015022	N	N/A, per existing LB	
<ul style="list-style-type: none"> Deterministic safety analysis Hazard analysis Probabilistic safety analysis Criticality safety 	Whiteshell Laboratories Concrete Canister Storage Facility Safety Analysis Report	RC-983 Revision 1 2000 January, e-Doc 5015017	N		
<ul style="list-style-type: none"> Deterministic safety analysis Hazard analysis Probabilistic safety analysis Criticality safety 	Safety Analysis Report Whiteshell Laboratories Shielded Facilities	WLSF-03500-SAR-001 Revision 4 September 2015, e-Doc 4839641	N		

Specific area	CNL document title	CNL Document reference number / CNSC e-Doc #	New Y/N	Date of submission	Duration for review by CNSC
<ul style="list-style-type: none"> Deterministic safety analysis Hazard analysis Probabilistic safety analysis Criticality safety 	Safety Analysis Report for the Whiteshell Laboratories Waste Management Area	WLWMA-508640-SAR-001 Revision 2 2015/12/02, e-Doc 4924845	N	N/A, per existing LB	Refer to table 3
<ul style="list-style-type: none"> Hazard analysis 	Safety and Hazards Analysis for the Shielded Modular Above-Ground Storage Facilities at Whiteshell Laboratories	WLDP-36410-SAR-001 Revision 3 2012/01/06, e-Doc 5018422	N		
<ul style="list-style-type: none"> Criticality safety 	Nuclear Criticality Safety Requirements	145-508550-REQ-001 Revision 6 2014/01/29, e-Doc 5014674	N		
SAFETY AND CONTROL AREA – PHYSICAL DESIGN					
<ul style="list-style-type: none"> Design governance 	Engineering Change Control	145-508120-PRO-001 Revision 10 2016/02/10, e-Doc 5014636	N	N/A, per existing LB	Refer to table 3
	Reduced Risk Engineering Change Control	145-508120-PRO-008 Revision 3 2013/12/20, e-Doc 5014668	N		
	Conduct of Design Engineering	145-508120-PRO-003 Revision 7 2013/02/22, e-Doc 5014648	N		
	Fire Protection Program Requirements	145-508720-REQ-002 Revision 0 2011/07/13, e-Doc 5014702	N		
<ul style="list-style-type: none"> System design Component design 	Code Classification and Design Registration of Pressure –Retaining System/Components	WLD-508140-PRO-001, Revision 1, 2015/03/23, e-Doc 5019797	N		
<ul style="list-style-type: none"> Design governance 	Pressure Boundary Quality Assurance Manual	WL-508140-QAM-001, Rev 2, 2015 February, e-Doc 5018397	N		
SAFETY AND CONTROL AREA – FITNESS FOR SERVICE					
<ul style="list-style-type: none"> Equipment fitness for service / equipment performance Aging management 	Periodic Inspection Plan for Whiteshell Laboratories Waste Management Area Concrete Bunkers	WLD-106100-PLA-001 Rev 0 October 19, 2009, e-Doc 3544346	N	N/A, per existing LB	Refer to table 3
SAFETY AND CONTROL AREA – RADIATION PROTECTION PROGRAM					
<ul style="list-style-type: none"> Application of ALARA Worker dose control Radiological hazard control Estimated dose to public Radiation Protection Requirements 	Radiation Protection Requirements	RC-2000-633-0, e-Doc 4780703	N	N/A, per existing LB	Refer to table 3

Specific area	CNL document title	CNL Document reference number / CNSC e-Doc #	New Y/N	Date of submission	Duration for review by CNSC
<ul style="list-style-type: none"> • Worker dose control • Radiological hazard control • Estimated dose to public 	Letter, A. Bugg (AECL) to S. Oue (CNSC), RE: Action Levels for AECL's Whiteshell Laboratories	RadP-ACNO-10-0024-L May 3, 2010, e-Doc 3794525	N	N/A, per existing LB	Refer to table 3
SAFETY AND CONTROL AREA – CONVENTIONAL HEALTH AND SAFETY					
<ul style="list-style-type: none"> • Performance • Practices • Awareness 	Occupational Safety and Health Requirements	CW 510400 REQ 217, e-Doc not available	N	N/A, per existing LB	Refer to table 3
SAFETY AND CONTROL AREA – ENVIRONMENTAL PROTECTION PROGRAM					
<ul style="list-style-type: none"> • Effluent and emissions control (releases) • Assessment and monitoring • Protection of the public • Environmental risk assessment 	Environmental Requirements Document	CW-509200-REQ-210 Rev 0 November 2010, e-Doc 4801899	N	N/A, per existing LB	Refer to table 3
<ul style="list-style-type: none"> • Environmental management system (EMS) 	Environmental Management System for CNL Sites in Canada	CW-509200-OV-113 Rev 2 March 2015, e-Doc 4743812	N		
<ul style="list-style-type: none"> • Assessment and monitoring • Protection of the public 	Derived Release Limits for AECL's Whiteshell Laboratories	WL-509211-RRD-001, Rev 3, 2016/08/31, e-Doc 5119088	N		
<ul style="list-style-type: none"> • Effluent and emissions control (releases) 	Administrative Levels and Action Levels for WL Air and Liquid Radioactive Effluents	WL-509200-PRO-001, Rev 0, 2016/08/26, e-Doc 5127483	N		
SAFETY AND CONTROL AREA – EMERGENCY MANAGEMENT AND FIRE PROTECTION					
<ul style="list-style-type: none"> • Conventional emergency preparedness and response • Nuclear emergency preparedness and response • Fire emergency preparedness and response 	Emergency Preparedness Requirements	CW-508730-REQ-219, Revision 1, 2012/11, e-Doc 5014951	N	N/A, per existing LB	Refer to table 3
	Whiteshell Laboratories Site Emergency Response Plan	WL-508730-ERP-001, 2015 March, e-Doc 4709554	N		
<ul style="list-style-type: none"> • Fire emergency preparedness and response 	Fire Protection Program Requirements	145-508720-REQ-002, Rev 0, 2011/07/13, e-Doc 5014702	N		
SAFETY AND CONTROL AREA – WASTE MANAGEMENT					
<ul style="list-style-type: none"> • Waste characterization • Waste minimization • Waste management practices 	Waste Management Program Overview	CW-508600-OV-129, Revision 3, 2015/02/10, e-Doc 5014936	N	N/A, per existing LB	Refer to table 3

Specific area	CNL document title	CNL Document reference number / CNSC e-Doc #	New Y/N	Date of submission	Duration for review by CNSC
<ul style="list-style-type: none"> Decommissioning plans 	Whiteshell Laboratories 2016 Cost Estimate Submission to Support Licence Conditions Related to Financial Guarantee	WL-508760-PLA-002 Revision D2, e-Doc 5141042	N		
SAFETY AND CONTROL AREA – SECURITY					
<ul style="list-style-type: none"> Facilities and equipment Response arrangements Security practices Drills and exercises 	Physical Security	145-508710-OV-001, Rev 5, 2015/08/14 e-Doc 5014694	N	N/A, per existing LB	Refer to table 3
	Site Security Report	EPS-14000-RPT-18 e-Doc not available	N		
SAFETY AND CONTROL AREA – SAFEGUARDS AND NON-PROLIFERATION					
<ul style="list-style-type: none"> Nuclear material accountancy and control Access and assistance to the IAEA Operational and design information Safeguards equipment, containment and surveillance 	Nuclear Materials and Safeguards Management – Requirements	CW-508510-REQ-119 Revision 3, 2013/05/31, e-Doc 5014625	N	N/A, per existing LB	Refer to table 3
SAFETY AND CONTROL AREA – PACKAGING AND TRANSPORT					
<ul style="list-style-type: none"> Package design and maintenance Packaging and transport Registration for use 	Transportation of Dangerous Goods Requirements	CW-508520-REQ-203, Revision 5, 2015/09/21, e-Doc 5014930	N	N/A, per existing LB	Refer to table 3

Table 3: Deliverable schedule for activities related to the technical assessment of the licensing basis documents and the public hearing process

Deliverable / Activity	Lead	Duration (calendar days)	Submission date of deliverable
CNSC technical assessment of existing CNL licensing basis documents			
Submission of complete licence application	CNL	Deadline	September 1, 2017
Completion of CNSC review of existing documents and comments submitted to CNL	CNSC	130 days (September 1, 2017 - January 9, 2018)	January 9, 2018
CNL response to CNSC comments	CNL	60 days (January 9 - March 10, 2018)	March 10, 2018
CNSC final assessment	CNSC	30 days (March 10 - April 9, 2018)	April 9, 2018
CNSC technical assessment of new or revised CNL licensing basis documents			
Submission of complete licence application	CNL	Deadline	September 1, 2017
Technical assessment of CNL submissions and comments submitted to CNL	CNSC	160 days (September 1, 2017 - February 8, 2018)	February 8, 2018
CNL response to CNSC comments	CNL	60 days (February 8 - April 9, 2018)	April 9, 2018
CNSC final assessment	CNSC	49 days (April 10 - May 29, 2018)	May 29, 2018
Public hearing process for the licensing decision will be determined by the Secretariat⁴ (currently based on a One-Part Hearing at the same time as the EA hearing)			
Submission of CMD	CNL	Deadline	August 3, 2018
Submission of licensing CMD (including EA report) to the CNSC Secretariat	CNSC	Deadline	August 3, 2018
Public intervention period ⁵	CNSC	30 days (August 4 - September 3, 2018)	September 3, 2018
Commission Hearing	CNSC	October 3-4, 2018	

⁴ The current dates are tentative and are based on the One-Part Hearing. However, those dates can be changed by the Secretariat, when finalizing the schedule for the 2018 Commission Hearings.

⁵ Please refer to the CNSC website for further information on participating in public hearings at <http://nuclearsafety.gc.ca/eng/the-commission/hearings/participate/index.cfm>