



**Decommissioning & Waste Management**  
Port Hope Area Initiative Management Office

22 JUN 11: 26

Chalk River Laboratories  
Chalk River, Ontario  
Canada K0J 1J0  
Tel (613) 584-3311  
Fax (613) 584-3250

Laboratoires de Chalk River  
Chalk River (Ontario)  
Canada K0J 1J0  
Tél (613) 584-3311  
Fax (613) 584-3250



**UNRESTRICTED**

4501-508760-021-000  
4501-ACNO-10-0009 -L  
DB-2010-010

2010 June 18

Dr. Milena Kostova, Ph.D.  
Project Officer  
Wastes and Decommissioning Division  
Canadian Nuclear Safety Commission  
280 Slater Street, P.O. Box 1046 Station B  
Ottawa, ON K1P 5S9

4.05.02

FILE DOSSIER	37-5-4-0
REFERRED TO RÉFÉRÉ A	Kostova-M

Dear Dr. Kostova,

***PORT HOPE PROJECT: WORK PLAN TO INCREASE COLLECTION POND CAPACITY  
AT THE WELCOME WASTE MANAGEMENT FACILITY***

The purpose of this letter is to submit to the Canadian Nuclear Safety Commission (CNSC) for review and approval, the work plan for modification to increase capacity of the collection ponds at the Welcome Waste Management Facility (WWMF) [1], which would close the CNSC 12 (2) action concerning potential releases to Clark's ditch [2].

As previously communicated [3], AECL has engaged Golder & Associates to provide a design to increase the collection pond capacity for the current water treatment system. The proposed modifications are described in the attached Technical Memorandum and Construction Drawings prepared by Golder.

The modifications include raising the perimeter berm surrounding the east and west collection ponds, which would increase the collection pond surge capacity from the current 17,470 m<sup>3</sup> to 21,700 m<sup>3</sup> and result in approximately 4,200 m<sup>3</sup> of additional surge capacity. In addition to the berm height change, the proposed modifications also includes introducing a spill way in the centre berm that divides the east and west ponds. Lastly, the Golder design recommends the removal of the accumulated sediment on the east side of the east collection pond where the interceptor ditch empties into the pond. It is estimated that up to 1,000 m<sup>3</sup> of additional surge capacity could be gained by this action. AECL proposes to place the removed sediment in a dedicated pit on the property.

All of the proposed modifications can be completed with no impact to the normal operation of the WWMF. The change will have no impact on the current footprint of the collection ponds. It is estimated that these actions will increase the surge capacity by 5,200 m<sup>3</sup>. AECL will provide health and safety oversight of the contractor, while Golder will provide technical direction related to the design.

AECL would like to complete this work in the 2010 construction season, thus AECL would need to contract the modification work to a qualified supplier in 2010 July in order to start work in 2010 August. It would be most appreciated if the CNSC would give prompt attention to the review of our submittal.

If you have any questions regarding this matter, please do not hesitate to contact me (905-885-1943). I will follow up with you by 2010 June 23<sup>rd</sup> to inquire if it would be beneficial to meet with you to discuss any questions the CNSC has with the proposed plan to achieve closure of the 12 (2) action.

Regards,



Dave Boyce  
Manager, Waste Facility Operations  
Port Hope Area Initiative Management Office

DB:tlw

Attachment

c.	C. Fahey	G. Case	A. Denby	J. Miller	R. Neufeld
	A. Choate	S. Faught	J. Walker	>PHAI Files	D. Howard, CNSC

**References:**

- [1] M. Kostova letter to D. Boyce: *Port Hope Project - CNSC Follow-up on Actions Required as Result of the 12(2) Request for Information for Welcome Waste Management Facility*. 4.05.02/37-26-0-0, 2010 June 1.
- [2] M. Kostova letter to C. Fahey: *Port Hope Project - Actions Required as Result of the 12(2) Request for Information for Welcome Waste Management Facility*, 4.05.02/37-26-0-0, 2010 April 16.
- [3] D. Boyce letter to M. Kostova, *Port Hope Project – AECL Response to Actions Required as Result of the 12(2) Request for Information for Welcome Waste Management Facility* 2010 May 28