



**University at Buffalo**  
*The State University of New York*

Environment, Health & Safety Services

November 9, 2014

**Docket 50-57**  
**License R-77**

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555 -0001

Dear Sir or Madam:

Attached is a letter from the University's Decommissioning Management Contractor, Enercon to Mr. Dave Vasbinder detailing information regarding an additional radiologically impacted item discovered during the dismantlement of the Buffalo Materials Research Center building structure.

This item has been added to the previous list of impacted items (identified in letter to the Commission on June 25, 2014) to be removed, segregated, and disposed of as LLRW during the building demolition.

It has specifically been identified as Item 19 on the updated Table 1 in the attached letter from Enercon.

We have also provided courtesy copies of this information to our Project Manager, Ted Smith and to the Region 1 Inspector.

If you have any questions or wish further information, please contact me at (716) 829-3301 or [dvasbind@buffalo.edu](mailto:dvasbind@buffalo.edu).

Sincerely,

David R. Vasbinder  
Director, Buffalo Materials Research Center

Cc: Ted Smith, U.S.N.R.C. Project Manager  
Steve Hammann, NRC Region 1  
Charles Burns, New York State Department of Health  
Tom Papura, New York State Department of Environmental Conservation

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*Excellence—Every project. Every day.*

October 30, 2014  
GEW-P14-016

Mr. Dave Vasbinder  
Associate Director, Environment, Health, and Safety Services BMRC  
The State University of New York  
University at Buffalo  
220 Winspear Avenue  
Buffalo, NY 14215-1034

Re: Notification of Additional Impacted Pipe Removal

Mr. Vasbinder;

As noted in our email notification to you on October 25, 2014, on the morning of October 25, 2014 during preparatory work for removal of the embedded ventilation duct from the Dry Chamber (previously identified as Impacted Items # 7 and 8), a drain funnel was observed on top of the structure. The funnel bottom penetrated the top surface of the structure approximately two feet from the location where the ductwork entered on the top surface. Under the direction of the Radiation Protection Manager (RPM), the hoe-ram operator removed the funnel with a gentle nudge of the hammer tip. The RPM then accessed the Neutron Deck and surveyed the funnel. The funnel interior was determined to have survey measurements in the range of 10,000 disintegrations per minute. The outside of the funnel was determined to have background radiation survey levels.

Under the supervision of the RPM, the piping was followed back through the remaining concrete until the exit point was located. It was noted that a small portion of the pipe had been removed earlier that morning. Two sections of the piping were recovered from the adjacent debris pile. These piping sections were contaminated on the inside with radiation survey levels in the range of 2,000 dpm. Again, no contamination was found on any outside pipe surfaces. There was no liquid or loose debris in any of the pipe. Contamination was determined to be restricted to the pipe interior. The adjacent materials in the debris were surveyed and found to be less than background. As a precautionary measure, nearby materials were scanned as they were being loaded by the excavator. All measurements were background measurement levels, which further confirmed that all impacted materials were segregated for disposal as LLRW.

Subsequently, ENERCON and LVI reviewed project drawings A-6 and P-2 to identify the pipe. It was determined to be a drain system associated with the Hot Cell. Based on the drawing review of the pipe location and length, it was concluded by ENERCON and LVI that the entire piping run was recovered.

The remaining two feet of piping still embedded in the block was removed by breaking the adjacent concrete. The remaining pipe and two 90° fittings were removed. All piping was sealed with tape, bagged, tagged, and stored in the Radioactive Material Area. All of the piping was subsequent placed in the intermodal container destined for disposal as LLRW.

During this action, no personnel, equipment, adjacent materials, or working surfaces were contaminated. The RWP was reviewed to ensure that all actions taken by the project team were in compliance with the approved procedures.

October 30, 2014

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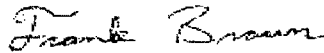
It should be noted that the LVI and ENERCON staff had recently completed training in the RWP practices. Additionally, the daily safety/gate meetings each day outlines the plan of the day. The staff for both organizations are advised and trained to observe the work, look for anomalies or structures that were not expected, and pro-actively reported these to their supervisor or the RPM. We consider the outcome of this effort to be a clear indicator that the site procedures are robust and effective to manage these unexpected items found during demolition.

This pipe section has been added to the previous list of impacted items to be removed, segregated, and disposed as LLRW during demolition. This item is now identified as Item #19. For information purposes in discussing management of impacted LLRW removal and management during demolition, we have provided an updated Table 1 to summarize the status of these nineteen (19) items as of October 30, 2014.

Sincerely,



Gerald E. Williams, P.E.  
Manager, Environmental Services Group



Frank Brown  
Project Manager

cc: Robert Weller  
Charles Beatty  
Frank Brown

**Table 1**  
**Status of Embedded Piping and Activated Structural Concrete**  
**as of October 29, 2014**

Item	Status
Item 1 is a pipe in the northwest portion of the reactor pit and goes to the 1k tank sump.	Planned to be completed the week of 11/17/2014
Item 2 is the abandoned cooling line running from the center of the reactor pit under the Neutron Deck Floor to the N-16 Tank Vault.	Planned to be completed the week of 11/17/2014
Items 3, 4, and 5 are the Dry Chamber columns, lintel, and floor.	Planned to be completed by 11/1/2014
Item 6 is the seven Beam Storage Tubes that extend from the interior of the Reactor Building into the soil southwest of the Reactor Building.	Planned to be completed the week of 11/3/2014
Item 7 and 8 are a ventilation pipe from the Hot Cell running from the gamma deck down to the neutron deck.	<i>Completed 10/27/2014</i>
Item 9 is a drain line running from the area in the sub-basement where the eleven waste lines exit the building. This line runs to the 1k sump.	Planned to be completed the week of 11/10/2014
Item 10 is four lines entering the 1k tank sump area just above the sump. These are various drains from the containment building.	Planned to be completed the week of 11/17/2014
Item 11 is eleven waste lines running from the sub-basement, terminating at the tank excavation outside the rollup door to the reactor building.	Planned to be completed the week of 11/10/2014
Item 12 is the area on the neutron deck which is covered by cinder blocks.	Planned to be completed the week of 11/10/2014
Items 13 and 14 are two floor points in the Sr-90 room.	<i>Completed 08/19/2014</i>
Items 15, 16, 17, and 18 are wall and floor points located in the 1k tank pit.	<i>Completed 08/19/2014. Additional remediation of Spot #17 was completed on 09/16/2014.</i>
Item 19 is a 3" drain line in the Hot Cell that was identified and removed on 10/25/2014.	<i>Completed 10/25/2014</i>