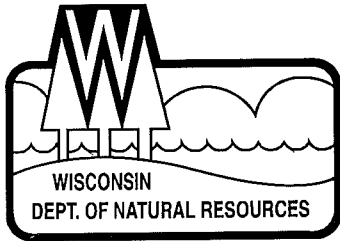


→ File



State of Wisconsin | DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor  
Darrell Bazzell, Secretary  
William H. Smith, Regional Director

Northern Region Headquarters  
810 W. Maple Street  
Spooner, Wisconsin 54801  
Telephone 715-635-2101  
FAX 715-635-4105  
TTY 715-635-4001

October 19, 2001  
Ms. Jane Patacity  
Beazer East, Inc.  
One Oxford Centre, Suite 3000  
Pittsburgh, PA 15219-6401

Subject: "Request for Modification of the Closure and Long Term Care Plan Approval and Corrective Action Management Unit (CAMU) Demonstration" Notice of Incompleteness.

Koppers Industries Inc. Site, Superior, WI WDNR BRRTS # 02-16-000484 WID 006 179 493

Dear Ms. Patacity,

A number of issues related to the above document and the Koppers-Superior facility have been under discussion within the past year. In November 2000, I wrote you to say that enough substantive information was presented in the above document to understand the scope of the proposal, to consider the concepts presented and substantially engage the proposal in the approval process. In the interim, I understand that the scope of the above *CAMU Demonstration* document has changed.

I am writing today to inform you that the *Demonstration* document above is incomplete as an application for modification of the Plan Approval for the following reasons;

The Department is required to notify you in writing that CAMU is a Class 2 modification as listed in Appendix I section L 1 in NR 680, Wis. Adm. Code. The required plan review fee for a Class II Plan Modification at a non- Commercial Hazardous Waste Facility Found in Table III of NR 680.45, Wis. Adm. Code. The Fee for a Plan Modification Review is \$1,800.00. Applicable Public Notification requirements for this modification must be met.

Corrective Action Management Units are governed under NR 636, Wis. Adm. Code. The *CAMU Demonstration* document is conceptual in nature and does not contain enough detailed engineering design information to judge compliance with NR 636.

The Department agrees that the Area of Concern and CAMU concepts are appropriate for facilitating corrective actions at RCRA sites and may be appropriate here. You must demonstrate the specific basis for any engineering measures designed to meet the applicable criteria.

10/19/01

2

The need for the CAMU is anticipated. However, the required Corrective Measures Study has not yet been completed for the facility. Changes to the conceptual design including location and volumes can be anticipated upon completion of the CMS. The CMS for the site must be completed as required in the Plan Approval for the facility. The CMS must include protection of groundwater as stated in the Plan Approval. Any related compliance issues regarding the existing Solid Waste Management Units should also be addressed.

Investigation of contamination in the unnamed ditch and Crawford Creek is not yet complete. These areas are contiguous with the Koppers sites and may be designated as Areas of Concern (AOCs). Feasibility of remedial options has not yet been determined for these areas. Discussion is underway as to whether any remedy for the contamination in these areas will include using the CAMU. If so, volumes managed in the CAMU, the footprint and design of the CAMU may change to accommodate inclusion of these wastes. Or, options such as future expansions or a separate CAMU options may be proposed.

Beazer should provide the following information to be considered with the CAMU;

Detailed justification as to how the specific engineering design criteria will meet the performance criteria and other considerations as stated in NR 636. Design criteria should be based on in-field, on site or laboratory testing of site-derived samples wherever possible. Note that applicable sections of NR 700 may be used to evaluate performance with the terms stated in NR 636.

Detailed information on the location and dimensions of the CAMU. Note that areas of the Koppers site may qualify as wetlands. Any wetland issues should be addressed according to the requirements in NR 103 Wis. Admin. Code.

Engineering properties and chemical characteristics and expected volumes of wastes to be managed in the CAMU should be evaluated and presented.

The Department's position and experience in the Superior area is that secondary fractures and sand seams in the clay, along with other transport mechanisms do allow migration of contamination through the clay. That is, the clay geology by itself is not protective of groundwater. Migration through the clay site geology by the contaminants of concern is documented in the on-going site monitoring. The on site wells also show groundwater gradients (head or potentials) to be strongly vertical beneath the clay. Geologic materials on site increase in coarseness with depth, so the effective protection of the clay would be diminished at the base of any excavation.

Therefore, you should anticipate use of an engineered liner and cap system and demonstrate how those systems will perform to meet the NR 636 criteria, NR 720 and NR 140 Wis. Admin. Code. An example may be a re-compacted clay liner that is demonstrated to meet the applicable performance criteria. Any liner and cap design proposed must be adequately justified.

The design for any necessary leachate management or justification for exclusion of leachate management should also be presented.

The need for gas venting and any air discharge monitoring should be discussed. Design for the control of air emissions should be included if necessary.

A monitoring plan must be included specifically designed to monitor performance of the CAMU and assure that the design performance objectives are met. Monitoring must meet the requirements of NR 140

10/19/01

3

and NR 635 as appropriate. Lysimeters may be included to evaluate performance if necessary. The vertical aspects of contaminant migration are a concern.

Monitoring should be designed to assess the individual performance and compliance of each of the Corrective Action, the existing SWMUs, the CAMU or any other concerns on site. However, monitoring may eventually be combined and minimized where appropriate.

Any proposed changes to the existing monitoring plan for the closed impoundments should be considered a separate Plan Modification until such time as the monitoring requirements for the CMS and CAMU or other issues are known.

All changes to existing plans should be clearly identified in any Plan Modification Request.

If you have further questions or need further assistance regarding this determination, please contact Jim Hosch in our Superior Office at 715/392-0802.

Sincerely,



Thomas J. Kendzierski, P.G.  
Hydrogeologist

Cc: Jeff Holden - BBL  
Brian Magee - AMEC  
Leslie Hyde - KII  
Tim Ries - KII Superior  
Jim Hosch - WDNR Superior  
Steve LaValley - WDNR Superior  
Mark Gordon - RR/3 Madison  
John Robinson - WDNR Rhinelander  
Henry Nehls-Lowe - DHFS