

US EPA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

April 24, 2012

Enbridge Energy, Limited Partnership  
c/o Mr. Rich Adams  
Vice President, Operations  
Superior City Centre  
Second Floor  
1409 Hammond Ave.  
Superior, Wisconsin 54880

**Re: Enbridge Energy, Limited Partnership's April 13, 2012 Letter and April 20, 2012 HDM Report**

Dear Mr. Adams:

The United States Environmental Protection Agency (U.S. EPA) has received the following documents submitted by Enbridge Energy, Limited Partnership, Enbridge Pipelines (Lakehead) L.L.C., Enbridge Pipelines (Wisconsin), and Enbridge Energy Partners, L.P. (herein collectively referred to as "Enbridge") on April 13, 2012 and April 20, 2012:

*Enbridge Energy, Limited Partnership letter to the U.S. EPA requesting an extension for submittal of a report documenting hydrodynamic modeling performed by Enbridge, submitted on April 13, 2012*

*Enbridge Energy, Limited Partnership Kalamazoo River Hydrodynamic and Sediment Transport Model Report (HDM Report), submitted on April 20, 2012.*

On April 13, 2012, Enbridge requested a deadline extension for the HDM Report until April 20, 2012. U.S. EPA granted Enbridge's request verbally on April 13, 2012. As stated above, U.S. EPA has received Enbridge's HDM Report and is currently reviewing it. U.S. EPA will approve, disapprove and require modifications, or modify Enbridge's HDM Report in a subsequent letter after U.S. EPA's review is complete.

In the meantime, Enbridge shall submit to the U.S. EPA an **HDM Report Addendum by 17:00 on May 4, 2012**. The HDM Report Addendum shall include the items described below.

1. Please provide a table of proposed model calibration acceptability criteria for:
  - a. Water surface elevation (WSE);
  - b. Discharge and velocity model parameters (e.g., similar to the example provided by USGS); and
  - c. A comparison of simulated versus observed parameter values relative to those criteria for the model calibration runs completed to date. (Comparisons should be made for each of the site stage recorder stations, unless specific rationale for a different approach is given.)

If the proposed acceptability criteria are different than those suggested by USGS, Enbridge shall provide justification for the proposed values.

2. Please provide a narrative interpreting the HDM calibration results obtained to date. The interpretation shall also include recommendations for additional data collection and/or revisions to the calibrated HDM if the simulated values do not meet acceptability criteria for individual stations.
3. Please provide additional compilations and graphical presentations of data from the sensitivity analysis model runs to support a more detailed evaluation of the HDM response to variations in specific parameter values. The additional data compilation shall include tables and graphs presenting changes in various parameter values at discrete cross-section/transect locations (e.g., rather than zonal summaries). Parameters for which the additional compilation shall: WSE, discharge, velocity, sediment load, sediment texture, and erodibility. The locations for the additional data compilation shall consist of the stage recorder locations, plus other representative locations specified by the USGS.
4. In coordination with the U.S. EPA and USGS personnel, please provide a schedule for performing additional model refinements (e.g., 3D model of select areas, addition of submerged oil transport), and for additional model scenarios to be evaluated using the calibrated HDM.

If you have any questions regarding this letter, please contact me immediately at (231) 301-0559.

Sincerely,



Ralph Dollhopf  
Federal On-Scene Coordinator and Incident Commander  
U.S. EPA, Region 5

**cc:** L. Kirby-Miles, U.S. EPA, ORC  
M. Durno, U.S. EPA  
S. Vega, U.S. EPA  
M. Ducharme, MDEQ  
M. DeLong, MDEQ  
Records Center, U.S. EPA, Reg. V