

April 18, 2000

Mr. Claude Buttram, P.E.  
Director, Radwaste Management Practice  
CH2M Hill  
151 Lafayette Drive, Suite 110  
Oak Ridge, TN 37830

Subject: TRANSMITTAL OF THE 3D GEOSPATIAL MODEL OF THE KVVWPCA  
ASH LAGOON AND ASSOCIATED DATA TO CH2MHILL

Dear Mr. Buttram:

The geospatial model and associated data for the ash lagoon on the property of Kiski Valley Water Pollution Control Authority (KVVWPCA), which you requested from the Nuclear Regulatory Commission (NRC) at the meeting in Pittsburgh, PA, on March 30, 2000, is contained on the enclosed CDROM. A metadata file on the CDROM gives descriptions of files being provided for the KISKI ash lagoon model. The model illustrates a three-dimensional distribution of total uranium (expressed as pCi/g) in the ash lagoon based on uranium concentration data acquired by Oak Ridge Institute of Science and Education in 1995, and B. KOH & Associates, Inc., in both 1998 and 1999.

The model and its associated files were developed for the NRC in the Computerized Risk Assessment and Data Analysis Laboratory (CRADAL) at NRC Headquarters in Rockville, MD, by Gerry L. Stirewalt, under contract No G835F4394G, Order No. DR-99-0065. The model was constructed by him for the purpose of demonstrating potential uses of 3D modeling techniques in the licensing process. Use of the model for any other purpose is outside the initial intended scope of application of the model. If the model, or any products generated from the model, are shared by your organization with other parties, it is understood that you will advise them as to the origin of the model and the stated initial intended scope for its use.

Mr. C. Buttram

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We hope the NRC model is useful for your purposes, to reconfirm volume and consequent cost estimates for potential remediation scenarios for the KVVWPCA ash lagoon. If you have any questions concerning assumptions used in development of the model or details of its construction, please feel free to contact me ([rbn@nrc.gov](mailto:rbn@nrc.gov)) at (301) 414-6696.

Sincerely,

***/RA/***

Robert B. Neel, Project Manager  
Special Projects Section  
Decommissioning Branch  
Division of Waste Management  
Office of Nuclear Material Safety  
and Safeguards

Enclosure: CDROM for KVVWPCA Ash Lagoon

cc: R. Kossack, KVVWPCA  
T. Adams, B. KOH & Associates, Inc.

Mr. C. Buttram

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**/RA/**

Robert B. Neel, Project Manager  
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cc: R. Kossack, KVWPCA  
T. Adams, B. KOH & Associates, Inc.

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