40-6659

Petrotomics Company

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March 9, 1998

Mr. Joseph J. Holonich, Chief Uranium Recovery Branch MS-T-7-J-9 Division of Waste Management Office of Nuclear Material Safety and Safeguards U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

Alternate Concentration Limits Application - Response to open issue 5 -Reference: Source Material License SUA-551

Dear Mr. Holonich:

Submitted herewith in triplicate is the Addendum to response to NRC open issue 5 (model verification).

As requested, the model was verified over the five-year period 1993 through 1997. The flow model was initialized to average hydrologic conditions for 1992. Annual average pumping rates from the recovery wells were computed for the period 1993-1997, and input directly into the flow model for the verification simulation. Average annual tailings leakage (recharge) estimates were obtained directly from the ACL application. The verification simulation was run and has been compared to the existing conditions. Results of the ground water flow model verification indicate the site flow model is capable of simulating complex hydrologic conditions with accuracy, and can be used with confidence to make future predictions.

Please contact me if you have questions or need further information.

R.A. Juday Supervisor



Mr. Joseph J. Holonich March 9, 1998 Page 2

Enclosure: ACL Application, Response to open issue 5.

PC: Mr. Mohammad Haque - USNRC

U.S. Nuclear Regulatory Commission Region IV Attn: Ross Scarano, Director Division of Radiation Safety and Safeguards 611 Ryan Plaza Drive, Suite 400 Arlington, TX 76011

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