

October 26, 2001

Alice C. Williams, Director  
U.S. Department of Energy  
Ohio Field Office  
West Valley Demonstration Project  
10282 Rock Springs Road  
West Valley, NY 14171-9799

SUBJECT: U.S. NUCLEAR REGULATORY COMMISSION SAFETY EVALUATION  
REPORT OF WVNS-SAR-002, SAFETY ANALYSIS REPORT FOR LOW-  
LEVEL WASTE PROCESSING AND SUPPORT ACTIVITIES

Dear Ms. Williams:

I am responding to your letter, dated June 20, 2001, requesting U.S. Nuclear Regulatory Commission (NRC) review of WVNS-SAR-002, Addendum 4, Revision 0, Draft C, "Safety Analysis Report Addendum for Head-End Cell Decontamination and Waste Packaging." Your letter states that the Safety Analysis Report (SAR) was prepared to specifically address collecting, processing, packaging, and storing debris located in the Head-End Cell of the Main Plant at the West Valley Development Project (WVDP).

The NRC staff has reviewed the subject report and documented its results in the enclosed Safety Evaluation Report (SER). The SER concludes that the proposed decontamination of the Head-End Cells at the WVDP does not pose an undue risk of inadvertent criticality.

If you have any questions, please contact Chad Glenn of my staff at 301-415-6722.

Sincerely,

**/RA/**

Larry W. Camper, Chief  
Decommissioning Branch  
Division of Waste Management  
Office of Nuclear Material Safety  
and Safeguards

Enclosure: NRC SER of WVNS-SAR-002

Alice C. Williams, Director





0.50 of  $\text{Ca}^{2+}$  ions (radius = 100 pm) are arranged in a hexagonal lattice, and the other 0.50 of  $\text{O}^{2-}$  ions (radius = 140 pm) are arranged in a hexagonal lattice, and the  $\text{Ca}^{2+}$  ions are in the octahedral holes.

in  $\text{CaO}$ , the  $\text{Ca}^{2+}$  ions (radius = 100 pm) are arranged in a hexagonal lattice, and the  $\text{O}^{2-}$  ions (radius = 140 pm) are arranged in a hexagonal lattice, and the  $\text{Ca}^{2+}$  ions are in the octahedral holes.

