

John Y

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**ENVIRONMENTAL  
RESTORATION  
PROJECT**

Los Alamos National Laboratory/University of California  
Environmental Science and Waste Technology (E)  
Environmental Restoration (ER) Project, MS M992  
Los Alamos, New Mexico 87545  
(505) 667-0808/FAX (505) 665-4747



U.S. Department of Energy  
Los Alamos Area Office, MS A316  
Environmental Restoration Program  
Los Alamos, New Mexico 87544  
(505) 667-7203/FAX (505) 665-4504

Date: October 27, 2001  
Refer to: ER2001-0982

Mr. Jihad Aljayoushi  
US Department of Energy  
Idaho Operations Office  
850 Energy Drive, MS 1235  
Idaho Falls, Idaho 83401-1563

ENTERED

Dear Mr. Aljayoushi:

The Department of Energy, Los Alamos Area Office (LAAO) is pleased to provide its commitment to be a secondary deployment site at Los Alamos National Laboratory for the NNSA/NV-initiated Accelerated Site Technology Deployment (ASTD) proposal for automation of monitoring systems at sites requiring long-term monitoring.

Continuous, real-time sensors, enabled by a fully-automated system to capture, transmit, analyze and display the data at any remote location, can act as alarms in long-term monitoring boreholes to identify if radionuclides are being mobilized and migrating from material disposal areas (MDA's). Combining sensor technology with traditional sampling can reduce cost and improve stakeholder confidence.

Cost reductions are expected from reduced labor for sampling, sample analysis, as well as the benefit of further reducing the exposure risk to sampling personnel. The LAAO would like to deploy this technology at Technical Area 49, MDA AB, to achieve and validate cost reduction, and to gain regulator confidence before proposing to install similar systems for other material disposal areas for long-term monitoring.

If you have any questions, please contact Woody Woodworth (505-665-5820) or John Hopkins (505-667-9551).

Julie A. Canepa, Program Manager  
Environmental Restoration Project  
Los Alamos National Laboratory

Mat Johansen, Project Manager  
Department of Energy  
Los Alamos Area Office

JC/MJ/JH/rw



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