



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

JAN 24 1994

Docket: 030-28681  
License: 15-23181-01

Alpha-Omega Geotech, Inc.  
ATTN: Roy Leonard, President  
P.O. Box 2670  
Kansas City, Kansas 66110

SUBJECT: NRC INSPECTION REPORT 030-28681/93-01 (NOTICE OF VIOLATION)

The refers to the routine, announced inspection conducted by Mr. Richard A. Leonardi, Jr., of this office on December 29, 1993. The inspection included a review of activities authorized by Byproduct Material License 15-23181-01. At the conclusion of the inspection, the findings were discussed with members of your staff. Additionally, the inspection findings were discussed with Mr. Leonard during a telephonic exit briefing on January 6, 1994.

The inspection was an examination of the activities conducted under the license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of the license. The inspection consisted of selective examinations of procedures and representative records, interviews of personnel, independent measurements, and observation of activities in progress.

Based on the results of this inspection, certain of your activities appeared to be in violation of NRC requirements, as specified in the enclosed Notice of Violation (Notice).

You are required to respond to this letter and should follow the instructions specified in the enclosed Notice when preparing your response. In your response, you should document the specific actions taken and any additional actions you plan to prevent recurrence. After reviewing your response to this Notice, including your proposed corrective actions and the results of future inspections, the NRC will determine whether further NRC enforcement action is necessary to ensure compliance with NRC regulatory requirements.

The inspector determined that licensed activities included the use of eight portable nuclear gauges throughout the states of Kansas and Missouri with at least one nuclear gauge in use 5 days-a-week for soil compaction and moisture studies. When not in use, gauges were stored in separate compartments of a wall cabinet at the licensee's Kansas City office.

A review of the licensee's previous history indicated that the licensee has been involved in four nuclear gauge incidents since 1988, including three incidents involving a lost/stolen gauge and one incident involving damage to a gauge which occurred at a temporary jobsite. During a detailed review of the four incidents, it was noted that in the latter incident an authorized user

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had failed to maintain constant visual surveillance of a nuclear gauge at a temporary jobsite, resulting in damage to the gauge by moving equipment.

The inspector discussed with licensee representatives the provisions of 10 CFR 20.1801 and 20.1802 which require, in part, that licensed material be secured when stored in unrestricted areas and that a licensee maintain constant surveillance of licensed material located in an unrestricted area when not in storage.

You are encouraged to consider conducting periodic training for all authorized users to emphasize proper procedures for use and security of the gauges to ensure that personnel understand emergency response actions.

Although a violation was identified, the inspector observed that the licensee's radiation safety program generally appeared adequate for the size and scope of activities conducted by the licensee.

Please find enclosed for your guidance NRC Information Notice 93-18, "Portable Moisture-Density Gauge User Responsibilities During Field Operations."

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be placed in the NRC Public Document Room.

The responses directed by this letter and the enclosed Notice are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, Pub. L. No. 96.511.

Should you have any questions concerning this letter, please contact the inspector identified above at (817) 860-8100.

Sincerely,



Dwight D. Chamberlain, Acting Director  
Division of Radiation Safety  
and Safeguards

Enclosures:

1. Appendix - Notice of Violation
2. NRC Information Notice 93-18

cc:

Kansas Radiation Control Program Director

bcc:  
DMB - Original (IE-07) //  
JLMilhoan  
DDChamberlain  
LWCamper  
RAScarano, RV  
MMessier, OC/LFDCB (4503)  
\*WLFisher  
\*CLCain  
\*RALeonardi  
\*NMIS  
\*MIS System  
\*RIV Files (2)  
  
\*W/IFS Form

RIV:NMIS <i>rad</i>	C:NMIS <i>vic</i>	ADD:DRSS <i>JM</i>	AD:DRSS <i>DR</i>	
RALeonardi	CLCain	<i>W</i> LWCamper	DDChamberlain	
01/19/94	01/21/94	01/21/94	01/21/94	

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