

# ATEC Associates, Inc.



of Virginia, Inc.  
7611 Sewells Point Road, Norfolk, Virginia 23513  
Phone 804-583-1557

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NMSB MAINTENANCE

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Indianapolis, IN

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May 27, 1980

Nuclear Regulatory Commission  
Division of Fuel Cycling and Material Safety  
Material Licensing Branch  
Washington, D. C. 20555

Attn: Leah Tremper

Re: Mail Control No. 03528

Gentlemen:

Submitted herewith are two copies of the information requested in your Mr. James A. Jones' letter dated May 16, 1980.

I hope you now have sufficient information to process our renewal application for license #45-16546-01.

Very truly yours,

ATEC ASSOCIATES OF VIRGINIA, INC.

Peter A. Lipphardt  
Director Testing Services  
Radiation Safety Officer

PAL/cs

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INSPECTION AND ENFORCEMENT

Consulting Geotechnical & Materials Engineers

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May 21, 1980

## ADDENDA TO STANDARD OPERATING PROCEDURES

To: Atec Associates of Virginia, Inc. Technical Personnel

Re: Policies, Precautions, and Procedures pertaining to Nuclear Gauges

### I. Gauge Transportation to and from Jobsite:

When removing a gauge from the office for field use, padlock on source rod (in "safe" position) is to be left locked. The gauge must be placed in the carrier supplied by the manufacturer. The carrying case is to be secured to the bed of the pickup truck by means of the fabric web straps. The gauge is not to be transported in the cab of the vehicle. When inclement weather is anticipated, the gauge must be transported in a vehicle with a covered bed. The presence of any moisture is detrimental to the scaler unit.

### II. Prevention of Unauthorized Use or Removal of Gauge in the Field:

The nuclear gauge is to be padlocked in "safe" position whenever it is not in use. The gauge must not be left unattended in the field. If you are finished with the gauge, but your presence is still required on the site, you may lock the gauge in the cab of the pickup, as long as you can park the locked vehicle adjacent to your work area and maintain surveillance of said vehicle.

### III. Storage Vault:

There are 3 keys which will open the 2 padlocks on the storage vault. They are kept by Peter A. Lipphardt (Radiation Safety Officer), C.H. Powers (Assistant R.S.O.), and R. E. Dubbe' (Branch Manager). When you need to use a gauge, the vault must be unlocked by one of the officers listed above. You must log gauge use and sign the entry. Vault keys are stamped "do not copy". Immediately after removing or replacing a gauge in the vault, the officer will relock the lid.

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## IV. Emergency Procedures - Accident or Loss:

The Radiation Safety Officer (Peter A. Lipphardt) must be notified immediately regarding any accident involving a nuclear gauge, or loss of a gauge. There is a set procedure for handling such incidents, but each occurrence will be treated by the R.S.O. in accordance with its characteristics. Your prime responsibility will be to immediately notify the R.S.O. In the case of damage to the gauge which results in exposure of a source you will, as a matter of policy, keep others away from the possibly contaminated area and/or objects. After initially contacting the R.S.O. maintain a line of communication until relieved of responsibility by the R.S.O., police, state or NRC officials. According to the manufacturer, no incidents involving gauges similar to ours have resulted in dangerous radiation; however, treat all exposed source capsules and sheared rods as "HOT" and hazardous. In case of accident or loss, contact one of the following (in order of priority):

<u>Name</u>	<u>Phone #</u>
Peter A. Lipphardt (R.S.O.)	(804) 583-1557 (Office) (804) 588-7670 (Home)
R. E. Dubbe' (Branch Manager)	(804) 583-1557 (Office) (804) 497-6797 (Home)
C. H. Powers (Ass't R.S.O.)	(804) 583-1557 (Office)

The whereabouts of at least one of the above is known at all times by the Office Manager, Charlotte Sloop

(804) 583-1557 (Office)
(804) 857-1594 (Home)

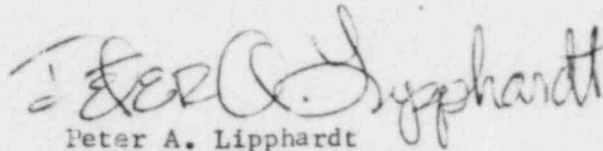
## V. Gauge Maintenance:

The only maintenance our license with the NRC allows us is cosmetic (i.e. brushing of base plate and gauge housing). No one is to remove the source rod from the gauge. Removal of the scaler unit is acceptable, and has been necessary in the past for wipe tests, blow drying to remove condensation, and occasionally for replacement of accessible scaler components. All other maintenance (lubrication and cleaning of source rod bearings and shield shutter) is done by the manufacturer. It is possible for us to apply for permission to perform some of the necessary maintenance, however, we do not intend to do so in the near future.

This memo summarizes topics discussed in our seminars, but has been required by the NRC in written form in order that they may process our application for license renewal. A copy is posted in the clean soils lab

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area with the NRC bulletins and requirements. In addition, each of you is to keep a copy with your gauge data sheets and instructions.

A handwritten signature in dark ink, appearing to read "Peter A. Lipphardt". The signature is fluid and cursive, with the first name "Peter" and last name "Lipphardt" clearly legible, and "A." as a middle initial.

Peter A. Lipphardt  
Radiation Safety Officer