

# APEX SURVEYING, INC.

407 WEST ADAMS • P.O. BOX 1751 • RIVERTON, WYOMING 82501  
(307) 856-1647 FAX (307) 856-6620

TERRY A. ZENK, P.E.  
(307) 856-9460 (Home)



GARY L. HATLE, P.L.S.  
(307) 856-5414 (Home)

RICHARD D. INBERG, P.L.S.  
(307) 856-4339 (Home)

THOMAS A. JOHNSON, P.L.S., CFEDS  
(307) 856-8534 (Home)

9-7-11

US NRC Region IV  
612 East Lamar Boulevard, Suite 400  
Arlington, TX 76011-4125  
Attn: Roberto Torres, Senior Health Physicist

Re: Response to Request for Additional Information (License No. 49-27058-01), Mail Control Number 575664

Mr. Torres,

I am submitting the attached additional information per your request dated September 1, 2011.  
Thank you.

Sincerely,

Terry Zenk, RSO  
Apex Surveying, Inc.

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Additional Information Request Response  
Docket 303-32073  
License 49-27058-01  
Control 575664

The following is a response to the request for additional information;

1. Item No. 1 – We are not requesting to extend authorization to perform work at temporary job sites of the licensee anywhere in the U.S. where the U.S. NRC maintains jurisdiction within Agreement States.
2. Item No. 2 – We are committed to the following language: “We will implement and maintain the “Operating, Emergency and Security Procedures” described in the errata sheet to Appendix H of NUREG-1556, Volume, Revision 1, and will provide copies of these procedures to all gauge users and at each job site.” Appendix H is part of our papers accompanying the gauge each time it is taken out to a job.
3. Item No. 3 – We are committed to the following language: “Before obtaining licensed materials, the proposed RSO will have successfully completed one of the training courses described in Criteria in the section entitled “Individual(s) Responsible for Radiation Safety Program and Their Training and Experience – Radiation Safety Officer” in NUREG-1556, Vol. 1, Revision 1, dated November 2001.”
4. Item No. 4 - We commit to the following language: “We will with possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled “Radiation Safety Program – Instruments” in NUREG-1556, Vol. 1, Revision 1, dated November 2001, in the event of an accident.”
5. Item No. 5 – We commit to the following language: “Leak tests will be performed at intervals approved by NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier’s instructions.”
6. Item No. 6 – We commit to the following language: “Routine Cleaning and Lubrication – We will implement and maintain procedures for routine maintenance or our gauges according to each manufacturer’s recommendations and instructions.”
7. Item No. 7 – We commit to the following language: “Non-Routine Maintenance – We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.”
8. Item No. 8 – We commit to the following language: “Each portable nuclear gauge will have its plunger locked or will have its outer container locked to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container will be locked when in transport, storage or when not under the direct surveillance of an authorized user.”
9. Item No. 9 – We commit to the following language: “We will comply with 49 CFR 172.704© that requires Hazmat employees to receive initial training and recurrent training at least once every 3 years. The elements of the Hazmat training, as described in 49 CFR 172.704(a), will be: (1) general awareness/familiarization training, (2) function-specific training, and (3) safety training. “
10. Item No. 10 – Attached is a copy of the current bill of lading (shipping papers) used by our company when transporting our gauge.

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## BILL OF LADING

**Shipper:** Apex Surveying, Inc.  
407 West Adams Avenue  
Riverton, Wyoming, 82501  
(307) 856-1647

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<u>Quantity</u>	<u>Description</u>
1 case	UN3332, Radioactive material, Type A package, Special Form, 7, RQ Cs-137, 0.30 GBq (8.0 mCi) Am-241, 1.48 GBq (40.0 mCi) Radioactive Yellow II Label, TI = 0.3

\*\*\*\*EMERGENCY CONTACT: (919) 549-9539\*\*\*\*

This is to certify that the above-mentioned materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Shipper Name (Print): Terry Zenk (R.S.O.)

Shipper Name (Signature):

**Nuclear Gauge Emergency Response Information for Transportation**  
Reference DOT p5800.5 ERG93, and 49CFR

**Potential Hazard**

**1) Proper Shipping Name**

- Radioactive Material Type A Package, special Form, Non-Fissile or Fissile-Excepted, 7, UN3332 RQ

**2) Health Hazards**

- Radiation presents minimal risk to lives of persons during transportation accidents.
- Undamaged packages are safe; damaged packages or materials released from packages can cause external radiation hazards. Contamination is not suspected.
- Packages (cartons, boxes, drums, articles, etc. ) identified as "Type A" by marking on packages or by shipping papers contain non-Life endangering amounts. Radioactive sources may be released if packages are damaged in moderately severe accidents.
- Packages (large and small, usually metal) identified as "Type B" by marking on packages or by shipping papers contain potentially life endangering amounts. Because of design, evaluation, and testing of packages, life endangering releases are not expected in accidents except those of utmost severity.
- Commonly available instruments can detect most of these materials.
- Water from cargo fire control is not expected to cause pollution.

**3) Fire or Explosion**

- Packaging can be consumed without content loss from sealed source capsule.
- Radioactive source capsules and Type B packages are designed to withstand temperatures of 1475°F (800°C)

**Emergency Action**

**4) Immediate Precautions**

- Priority response actions can be performed before taking radiation measurements.
- Priorities are life saving, control of fire and other hazards, and first aid.
- Isolate hazard area and deny entry. Notify Radiation Authority of accident conditions.
- Delay final cleanup until instruction or advice of Radiation Authority.
- Positive pressure self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing will provide adequate protection against internal radiation exposure, but not external radiation exposure.
- Call the following numbers depending on the gauge model:
  - Troxler Electronics Labs, Inc. (919)839-2676
  - CPN (800)852-7550
  - Humboldt Scientific (800)992-4589

**5) Fire**

- Do not move damaged packages; move undamaged packages out of fire zone.
- Small Fires: Dry chemical, CO<sub>2</sub> water spray or regular foam.
- Large Fires: Water spray, fog (flooding amounts)

**6) Spill or Leak**

- Do not touch damaged packages or spilled material.
- Slightly damaged or damp outer surfaces seldom indicate failure of inner container.
- If source is identified as being out of package, stay away and await advice from Radiation Authority.

**7) First Aid**

- Use First aid treatment according to the nature of the injury.
- Persons expose to special form sources are not likely to be contaminated with radiation material.

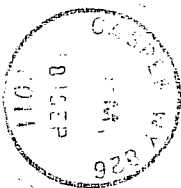
**APEX SURVEYING, INC.**

P. O. BOX 1751

RIVERTON, WYOMING 82501

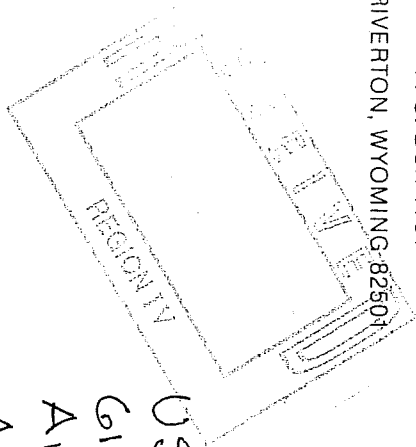
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