



SURVEYING • ENGINEERING • CONSTRUCTION SERVICES

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October 26<sup>th</sup>, 2010

United States NRC (Region III)  
Licensing Division  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352

RE: NRC Material License No. 21-32687-01

To whom it may concern:

Surveying Solutions, Inc. is continuing to expand our density testing department and anticipate a significant amount of work for the summer of 2011. In anticipation of that work, we are requesting an amendment to our current NRC License so that we can own and possess up to twenty (20) Model 3400 Series Troxler Electronic Laboratories Gauges. The current license only allows for 5 sources and we feel this may be reduce our ability to expand our operations. The max activity for each gauge is the following:

Cs-137 (9 mCi)

Am-241 (44mCi)

The attached Appendix C from Troxler provides this same information.

If you have any questions, please feel free to give me a call at (989) 846-6601.

Sincerely,

SURVEYING SOLUTIONS, INC.

A handwritten signature in blue ink, appearing to read "Adam R. Ball".

Adam R. Ball, P.E.

Radiation Safety Officer / Project Engineer

[aball@ssi-mi.com](mailto:aball@ssi-mi.com)

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## APPENDIX C

### SOURCE INFORMATION FOR TROXLER GAUGES

The following tables provide source information for current production gauges, as well as gauges that are no longer in production. The gauge registries listed under the *Registry No.* column are available at [www.hsrdr.ornl.gov/nrc/ssdr/ssdrindx.htm](http://www.hsrdr.ornl.gov/nrc/ssdr/ssdrindx.htm).

| Current Production Gauges           |                     |                          |                            |                |
|-------------------------------------|---------------------|--------------------------|----------------------------|----------------|
| Gauge Model                         | Radionuclide        | Max. Activity            | Source Drawing             | Registry No.   |
| 3216                                | Am-241:Be           | 44 mCi                   | A-102451                   | NC-646-D-126-S |
| 3241-C<br>3241-G                    | Am-241:Be           | 300 mCi<br>or<br>100 mCi | A-100337<br>or<br>A-100608 | NC-646-D-128-S |
| 3242                                | Cf-252              | 100 $\mu$ Ci             | A-105162                   | NC-646-D-135-B |
| 3400 Series<br>3430<br>3440         | Cs-137<br>Am-241:Be | 9 mCi<br>44 mCi          | A-102112<br>A-102451       | NC-646-D-130-S |
| 3430-M<br>3440-M                    | Cs-137<br>Cf-252    | 9 mCi<br>66 $\mu$ Ci     | A-102112<br>A-105560       |                |
| 3450                                | Cs-137<br>Am-241:Be | 9 mCi<br>44 mCi          | A-102112<br>A-102451       | NC-646-D-138-S |
| 4232                                | Cf-252              | 100 $\mu$ Ci             | A-105162, A-105862         | NC-646-D-137-S |
| 4300 series<br>4301<br>4302<br>4350 | Am-241:Be<br>Cs-137 | 11 mCi<br>9 mCi          | A-102700<br>A-102112       | NC-646-D-134-S |
| 4640<br>4640-B                      | Cs-137              | 9 mCi                    | A-102112                   | NC-646-D-131-S |

| Gauges No Longer in Production                    |              |               |                 |                |
|---------------------------------------------------|--------------|---------------|-----------------|----------------|
| Gauge Model                                       | Radionuclide | Max. Activity | Source Drawing  | Registry No.   |
| 1201 (old 117 w/<br>S-1 Ref. Std.)                | Ra-226:Be    | 3 mg          | A-100280        | NC-646-D-801-S |
| 1205 (old 217-104A)<br>1207 (old 217-105A)<br>217 | Am-241:Be    | 100 mCi       | A-100608        | NC-646-D-812-S |
| 1226 (old AC-200)                                 | Am-241:Be    | 100 mCi       | MRC-N-SS-W-AMBE | NC-646-D-813-S |
| 2226                                              | Am-241:Be    | 300 mCi       | A-100337        | NC-646-D-814-S |
| 1255 (old 104A/S-5A)<br>1257 (old 105A/S-6A)      | Am-241:Be    | 100 mCi       | A-100608        | NC-646-D-815-S |



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