

# GMU Testing, Inc. (DR. HORST KRUPP)

1554 CREEK ST.  
SAN MARCOS, CA 92078, USA

08.04.2014

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## U.S. Nuclear Regulatory Commission

Attn.: Document Control Desk / Exempt Distribution  
Director, Office of Federal and State Materials and Environmental Management Programs

Washington, DC 20555-0001

### Required report for year 2009

Transfer of items containing by-product activity for year 2009 in accordance with 10 CFR 32.11 for license number 04-23964-01E (docket number 030-37770)

We released and transferred for use under 10 CFR 30.14 the following materials:

- a) Cut London Blue Topaz (reactor treated) total 10,421.50 grams, 9769 pieces  
to: RS Importing Co., 2W. 46St, #407, New York, NY10036
- b) Cut Swiss Blue Topaz (reactor plus linac treated) total 146.6 grams, 112 pieces  
to: Tim Roark, Inc., 1401 Peachtree St. NE, Ste 234, Atlanta, GA30309

All protocols and spectra were measured nuclide specific with an  
Ortec Germanium Gamma-Spectrometer.

and analyzed with

Ortec's Gammaspec software.

These measurements and our release certificates can be inspected anytime in our San Marcos office.

For GMU Testing, Inc.



Dr. Horst Krupp (Scientific Director)

FSMEDB

## **Summary of measured nuclides** (required report for year 2009)

a) 10,421.50 grams, 9,769 pieces (London Blue)

<b>Nuclide:</b>	<b>Sc-46</b>	<b>Ta-182</b>	<b>Mn-54</b>	<b>Cs-134</b>	<b>Eu-152</b>	<b>Na-22</b>	<b>Co-60</b>	<b>Zn-65</b>
<b>Tot Bq:</b>	<b>21,989</b>	<b>25,116</b>	<b>72,742</b>	<b>1,096</b>	<b>1,281</b>	<b>36.5</b>	<b>260</b>	<b>167</b>
<b>Max Bq/g<sup>1)</sup>:</b>	<b>9</b>	<b>9</b>	<b>25</b>	<b>3.3</b>	<b>&lt;1</b>	<b>&lt; 0,03</b>	<b>&lt;1</b>	<b>6</b>

b) 146.60 grams, 112 pieces (Swiss Blue)

<b>Nuclide:</b>	<b>Sc-46</b>	<b>Ta-182</b>	<b>Mn-54</b>	<b>Cs-134</b>	<b>Eu-152</b>	<b>Na-22</b>	<b>Co-60</b>	<b>Zn-65</b>
<b>Tot Bq:</b>	<b>3</b>	<b>147</b>	<b>306</b>	<b>89</b>	<b>4.5</b>	<b>0.6</b>	<b>0.5</b>	<b>7</b>
<b>Max Bq/g<sup>1)</sup>:</b>	<b>9</b>	<b>9</b>	<b>25</b>	<b>3.3</b>	<b>&lt;1</b>	<b>&lt; 0,03</b>	<b>&lt;1</b>	<b>6</b>

<sup>1)</sup> We will not release any piece containing nuclides with a level above these values

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## U.S. Nuclear Regulatory Commission

Attn.: Document Control Desk / Exempt Distribution  
Director, Office of Federal and State Materials and Environmental Management Programs

Washington, DC 20555-0001

### Required report for year 2010

Transfer of items containing by-product activity for year 2010 in accordance with 10 CFR 32.11 for license number 04-23964-01E (docket number 030-37770)

We released and transferred for use under 10 CFR 30.14 the following materials:

- a) Cut **Swiss Blue Topaz** (reactor plus linac treated) total **455.80** grams, **1396** pieces  
to: **Gem Center NNW, 2124 2<sup>nd</sup> Ave, Seattle, WA98121**
- b) Cut **Swiss Blue Topaz** (reactor plus linac treated) total **1669.50** grams, **5448** pieces  
to: **Tim Roark, Inc., 1401 Peachtree St. NE, Ste 234, Atlanta, GA30309**

All protocols and spectra were measured nuclide specific with an  
**Ortec Germanium Gamma-Spectrometer.**

and analyzed with

**Ortec's Gammaspec software.**

These measurements and our release certificates can be inspected anytime in our San Marcos office.

For GMU Testing, Inc.



**Dr. Horst Krupp (Scientific Director)**

## **Summary of measured nuclides** (required report for year 2010)

a) 455.80 grams, 1,396 pieces (Swiss Blue)

<b>Nuclide:</b>	<b>Sc-46</b>	<b>Ta-182</b>	<b>Mn-54</b>	<b>Cs-134</b>	<b>Eu-152</b>	<b>Na-22</b>	<b>Co-60</b>	<b>Zn-65</b>
<b>Tot Bq:</b>	<b>183</b>	<b>401</b>	<b>1,542</b>	<b>24</b>	<b>2.5</b>	<b>8.5</b>	<b>0.9</b>	<b>6.5</b>
<b>Max Bq/g<sup>1)</sup>:</b>	<b>9</b>	<b>9</b>	<b>25</b>	<b>3.3</b>	<b>&lt;1</b>	<b>&lt; 0,03</b>	<b>&lt;1</b>	<b>6</b>

b) 1669.50 grams, 5448 pieces (Swiss Blue)

<b>Nuclide:</b>	<b>Sc-46</b>	<b>Ta-182</b>	<b>Mn-54</b>	<b>Cs-134</b>	<b>Eu-152</b>	<b>Na-22</b>	<b>Co-60</b>	<b>Zn-65</b>
<b>Tot Bq:</b>	<b>394</b>	<b>1,596</b>	<b>3,695</b>	<b>89</b>	<b>14.5</b>	<b>14</b>	<b>2.5</b>	<b>18</b>
<b>Max Bq/g<sup>1)</sup>:</b>	<b>9</b>	<b>9</b>	<b>25</b>	<b>3.3</b>	<b>&lt;1</b>	<b>&lt; 0,03</b>	<b>&lt;1</b>	<b>6</b>

<sup>1)</sup> We will not release any piece containing nuclides with a level above these values