

Ste. Genevieve Plant



Holcim (US) Inc.
2942 US Hwy 61
Bloomsdale, MO 63627

Phone 636-524-8155
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www.holcim.com/us

Fax

To:	Tori Siemens
cc:	
Company:	NRC
Fax number:	630-515-1078
From:	Erin Watson erin.watson@holcim.com
Date:	8/11/08
Total pages:	8 (including cover)
Subject:	Reference Control # 317266

Ms. Siemens,

As per our phone conversation earlier today, here are the items that you requested to be changed in regards to the License Application for Holcim (US) Inc. – Ste Genevieve Plant. Please let me know if you need anything further. Please send me an email confirming that you received this fax.

If you have further questions, please contact me at: 636-524-8155 or via email at erin.watson@holcim.com.

Respectfully,

Erin Watson
RSO
Quality Control Manager



Holcim (US) Inc.
Ste. Genevieve Plant
2942 US Hwy 61
Bloomsdale, MO 63627

Phone 636 524 8155
erin.watson@holcim.com

August 11, 2008

Tori Siemens
Materials Licensing Branch, Region III Office
U.S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Re: Reference Control # 317266

Dear Ms. Siemens:

The following is in regards to the information requested by the NRC during our phone conversation earlier today, 8/11/08.

It was requested that I make changes to Table B.1 in order to reflect the corrected material quantities of the isotopes that need to be included in the license for Holcim (US) Inc. – Ste Genevieve, Reference Control # 317266. These changes are included in the updated Table B.1 which has been included with this memo.

Also requested was information about the training and experience of the site RSO, Erin Watson. I have included my coursework descriptions and training certificate for the RSO training I attended as well as a description of previous experience with fixed gauges.

I would also like to state at this time that the license application should reflect only one RSO for the Holcim (US) Inc. – Ste Genevieve site. The RSO listed on the license should be Erin Watson. Please do not include Tim Guy as assistant RSO or authorized user.

Respectfully,

A handwritten signature in black ink that reads "Erin M. Watson".

Erin Watson
Radiation Safety Officer
Quality Control Manager
Holcim (US) Inc.
Ste Genevieve Plant

Encs.
Revised Table B.1
RSO Certificate of Training
RSO Training Coursework Description
List of Previous Experience

APPENDIX B

Suggested Format for Providing Information Requested in Items 5 Through 11 of NRC Form 313

Table B.1 Items 5 & 6: Materials To Be Possessed and Proposed Uses

Yes	No	Radloisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
	X	Cobalt-60	Sealed source manufacturer or distributor and model number: <u>See attached</u> Device manufacturer or distributor and model number: <u>See attached</u>	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input checked="" type="checkbox"/> Specific description of the gauge use: <u>See attached</u>	<input checked="" type="checkbox"/> Not applicable [] Uses are: (Submit safety analysis supporting safe use)
	X	Krypton-85	Sealed source manufacturer or distributor and model number: Device manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes [] Specific description of the gauge use:	[] Not applicable [] Uses are: (Submit safety analysis supporting safe use)
	X	Strontium-90	Sealed source manufacturer or distributor and model number: Device manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes [] Specific description of the gauge use:	[] Not applicable [] Uses are: (Submit safety analysis supporting safe use)
	X	Cesium-137	Sealed source manufacturer or distributor and model number: Device manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes [] Specific description of the gauge use:	[] Not applicable [] Uses are: (Submit safety analysis supporting safe use)

APPENDIX B

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
	X	Americium-241	Sealed source manufacturer or distributor and model number: Device manufacturer or distributor and model number:	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes [] Specific description of the gauge use: _____ _____ _____ _____	[] Not applicable _____ [] Uses are: _____ (Submit safety analysis supporting safe use)
X		Other Isotope (Specify): Californium-252	Sealed source manufacturer or distributor and model number: <i>See attached</i> Device manufacturer or distributor and model number: <i>See attached</i>	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input checked="" type="checkbox"/> Specific description of the gauge use: <i>See attached</i> _____ _____ _____ _____	<input checked="" type="checkbox"/> Not applicable _____ [] Uses are: _____ (Submit safety analysis supporting safe use)
<i>Financial Assurance Required and Evidence of Financial Assurance Provided</i>						

Table B.1 Items 5&6: Materials To Be Possessed and Purposed Uses

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
X		Cobalt-60	<p>Sealed Source Manufacturer: Berthold Technologies GmbH & Co. KG Distributor: Berthold Technologies USA, LLC Model No. P 2602-100 SSD NO: TN-1031-S-102-S</p> <hr/> <p>Device Manufacturer: Berthold Technologies Model No: LB 7400 Series SSD NO: TN-1031-D-101-B</p>	12 sources not to exceed 100 mCi each	<p>Yes <input checked="" type="checkbox"/> To be used in a Berthold Technologies Level Switch Model LB 7400 Series for level measurement</p>	<input checked="" type="checkbox"/> Not Applicable
X		Californium-252	<p>Sealed Source Distributor: QSA Global, Inc. Model No. Model Series CVN CYn SSD NO: MA-1059-S-271-S</p> <hr/> <p>Device Manufacturer: Thermo Gamma Metrics Model No: CB OMNI SSD NO: CA1046D102S</p>	Total of 16 sources not to exceed 22.58 mCi each	<p>Yes <input checked="" type="checkbox"/> To be used in a Thermo Gamma Metrics Model CB OMNI Materials Analyzer for elemental analysis of bulk materials</p>	<input checked="" type="checkbox"/> Not Applicable
X		Californium-252	<p>Sealed Source Distributor: Frontier Technology Corporation Model No. Model 10 and 100 Series SSD NO: OH-0298-S101-S</p> <hr/> <p>Device Manufacturer: Thermo Gamma Metrics Model No: CB OMNI SSD NO: CA1046D102S</p>		<p>Yes <input checked="" type="checkbox"/> To be used in a Thermo Gamma Metrics Model CB OMNI Materials Analyzer for elemental analysis of bulk materials</p>	<input checked="" type="checkbox"/> Not Applicable
X		Californium-252	<p>Sealed Source Manufacturer: FSUE State Scientific Center of Russia Distributor: Industrial Nuclear Company, Inc. Model No. HK252M41 Series SSD NO: MA-0555-S-102-S</p> <hr/> <p>Device Manufacturer: Thermo Gamma Metrics Model No: CB OMNI SSD NO: CA1046D102S</p>		<p>Yes <input checked="" type="checkbox"/> To be used in a Thermo Gamma Metrics Model CB OMNI Materials Analyzer for elemental analysis of bulk materials</p>	<input checked="" type="checkbox"/> Not Applicable
X		Financial Assurance Required and Evidence of Financial Assurance Provided				

Certificate of Training

Awarded To

Erin Watson

Recognizing completion of 40 hours of specialized instruction in

Radiation Safety Officer

June 27, 2008

Presented By

Radiation Safety Academy

A Division of Dade Moeller & Associates
481 North Frederick Avenue, Suite 302
Gaithersburg, Maryland 20877

AAHP has awarded this course 32 Continuing Education Credits, 2007-00-031
ABIH has awarded this course 4.5 CM Points, CM Approval # 08-262
ARRT and SNMT have awarded 46.75 CEH's, 027194-027227



Ray Johnson, MS, PE, FHPS, CHP
Vice President, Training Programs



Radiation Safety Officer Training
taken at Radiation Safety Academy, Gaithersburg, MD
Coursework included:

Date	Class Title	Class Hours
6/23/08	Introduction, Course Overview, Views on Radiation	3.0
	Radiation and Radioactivity, Radioactive Decay	1.0
	Radiation Units, Sources of Radiation, Interaction with Matter	3.0
	Health Effects	1.5
	Daily Review	0.5
6/24/08	Radiation Protection Standards, 10 CFR Part 19 and 20	2.0
	Essential Highlights of 10 CFR Part 2, 30, 31, 33	2.0
	License Applications and Amendments	1.0
	External Radiation Protection and Shielding	1.5
	Sealed Sources & Industrial Gauges	2.0
	Daily Review	0.5
	Math Review & Radiation Safety Problem Solving	1.5
6/25/08	Radiation Survey Instruments	4.0
	Instruments Lab, Applications & Troubleshooting	2.0
	Emergency Response	1.0
	Radiation Safety Surveys	1.5
	Daily Review	0.5
6/26/08	Interpreting Radiation Measurements & Quality Assurance	1.5
	Transportation of Radioactive Materials Overview & Package Receiving	2.5
	Developing a Training Program	1.5
	Practical Record Keeping for RSOs	1.0
	X-Ray Safety	2.0
	Daily Review	0.5
6/27/08	Legal Implications: Radiation Litigation	1.5
	First Steps for New RSOs	1.0
	Radiation Safety Program Management, Preparing for Regulatory Inspections	1.5
TOTAL		41.5

Erin M Watson
RSO
Quality Control Manager
Holcim (US) Inc. – Ste Genevieve Plant

List of Previous Experience

June 2002 – January 2008

Holcim (US) Inc. – Dundee, MI

Quality Control Manager in charge of operation and safety of two Thermo Gammametrics PGNA analyzers. Both used Ca-252 sources as nuclear sources. These devices were used to analyze oxide chemistry of bulk materials in the cement manufacturing process. Also responsible for operation and safety of Panalytical XRF and XRD X-ray units.

Included with these duties was monitoring and maintaining use of dosimetry whole body badges and results, coordination of leak tests with equipment manufacturers, coordination of preventive and reactive maintenance of devices, development and implementation of radiation safety program, guidance through one inspection done by State of Michigan, maintaining records of safety training and dosimetry