



September 3, 2015

Mr. Michael G. Herr, CHP  
Materials Licensing Branch  
United States Nuclear Regulatory Commission, Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352

**Re: Radiation Safety Officer Amendment**  
**License # 13-06932-03**  
**Control N. 573240**  
**Cargill Inc. – Hammond, IN Facility**

Dear Mr. Michael G. Herr, CHP:

The currently listed Radiation Safety Officer (RSO) for the Cargill Hammond, IN Plant, Mr. Michael Dutczak, is no longer employed by Cargill. At this time, we request the Nuclear Regulatory Commission approve the proposed reinstatement of our former RSO, James Tuinstra, and amend our current License #13-06932-03 to designate him as RSO.

Mr. James Tuinstra has been employed at the Hammond, IN Cargill facility for over 8 years, as Maintenance AEI Specialist Programmer and now Packaging Engineer. He attended the RSO training in Oct. 2010 and was the RSO, prior to Mr. Dutczak. We have enclosed the training credentials for Mr. James Tuinstra from Nevada Technical Associates, Inc. along with a letter from James accepting the RSO position.

Should you have any questions or comments concerning this matter, please contact me either via email Sam\_Neal @ Cargill.com or via telephone 219-473-2242.

Sincerely,

Sam Neal  
Facility Manager  
Cargill, Inc. – Hammond, IN

Attachments

RECEIVED SEP 15 2015

Corn Starch & Sweetener Plant  
1100 Indianapolis Boulevard  
Hammond, Indiana 46320-1094

## Cheri Dorman

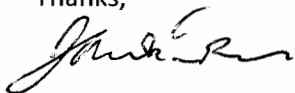
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**From:** Cheri Dorman  
**Sent:** Friday, September 11, 2015 11:53 AM  
**To:** Sam Neal  
**Cc:** Cheri Dorman  
**Subject:** RSO Amendment Letter

**From:** James Tuinstra  
**Sent:** Thursday, September 10, 2015 1:30 PM  
**To:** Cheri Dorman  
**Subject:** RE: RSO Amendment Letter

I, James Tuinstra understand the need for a plant RSO and am willing to fill the position until a suitable replacement is found. I attended the Radiation Safety Officer technical course by the Nevada Technical Associates, Inc. in October 2010. I started Cargill in March of 2007. I previously filled the RSO position in January of 2012 until January 2014. I have been covering the RSO duties since Mike Dutczak left in June and will continue to perform the tasks setup by Mike.

Thanks,



James Tuinstra  
*PDG Engineer*  
*Packaging*



**1100 Indianapolis Boulevard**  
**Hammond, IN 46320**  
(219) 781-4411 Anytime Cell

**James Tuinstra**

*Has successfully completed the 40 hour technical short course entitled*

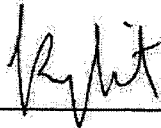
**Radiation Safety Officer**

*October 4 – October 8, 2010*

*This certificate presented in Columbus, Ohio, October 8, 2010*

*By Nevada Technical Associates, Inc.*

Approval codes for C.E. units are: ASRT 30.5 units: NVZ0146001, AAHP 32 units: 2008-00-005, ABIH 4.5 units: 08-1362



*Roger Sit*

*Instructor*

## 1.1 Radiation Safety Officer Training - Course Roadmap

Radiation safety (aka Health Physics) draws from many scientific disciplines in developing principles, procedures and techniques for the protection of personnel, the public, and the environment from the effects of radiation. This course presents theoretical concepts, practical information, and real-life examples to equip you to fulfill essential Radiation Safety Officer (RSO) duties.

Some subjects may be repeated in separate lessons under different contexts. Such repetition is intended, and should help you master certain key concepts. The following table summarizes the contents of each lesson.

**Radiation Safety Officer Training Course RoadMap**

Lesson 1 <i>mon</i>	<i>Introduction</i>	Atomic Structure Chemical Interactions Mass-Energy Equivalence Binding Energy Naturally Occurring Radionuclides Historical Highlights
Lesson 2 <i>mon</i>	<i>Radioactive Decay Processes</i>	Radioactive Decay Equations Decay Processes Chart of the Nuclides Decay Statistics
Lesson 3 <i>tues</i>	<i>Interaction of Radiation with Matter</i>	Modes of Interaction and Ranges for: <ul style="list-style-type: none"> <li>✓ alpha particles</li> <li>✓ beta particles</li> <li>✓ gamma &amp; x-ray</li> <li>✓ neutrons</li> </ul>
Lesson 4 <i>tues</i>	<i>Radiation Detection &amp; Measurement</i>	Operating Principles of Instrumentation Detection Issues Related to Type of Radiation
Lesson 5	<i>Biological Effects of Radiation</i>	Dose units Mechanisms of Biological Damage Deterministic Effects Stochastic Effects What is Risk?
Lesson 6	<i>Shielding</i>	Shielding Related to Types of Radiation: <ul style="list-style-type: none"> <li>✓ charged particles</li> <li>✓ gamma rays &amp; x-rays</li> <li>✓ neutrons</li> </ul> General Issues in Facility Shielding

## Radiation Safety Officer Training Course RoadMap, cont.

Lesson 7 <i>wed</i>	<i>Personnel Dosimetry</i>	External Dosimeters External Dose Evaluations Internal Dose Evaluations
Lesson 8 <i>wed</i>	<i>Regulations &amp; Guides</i>	Chronology Sources Current Regulations NRC Licensing Procedures
Lesson 9 <i>Th</i>	<i>Surveys, Records &amp; Documentation</i>	Surveys & Inspections Radiological Controls & Work Practices ALARA Record-keeping & Documentation Operating & Emergency Procedures
Lesson 10 <i>Th</i>	<i>Transportation &amp; Disposal Regulations</i>	Applicable Regulations Packaging for Transport Package Marking and Labels & Vehicle Placards Radioactive Waste Disposal
Lesson 11 <i>Th</i>	<i>Radiological Emergencies</i>	Emergency Classification Accident Phases Notifications Assistance Teams Emergency Response Accident Causes & Examples
Tab 12	<i>Reference Info</i>	Mailing Lists & Websites Glossary Abbreviations List of Elements Conversion Factors References
Tab 13	<i>Reference Info</i>	NRC Publications
Tab 14	<i>Reference Info</i>	NRC Materials License Application Example
Tab 15	<i>Reference Info</i>	Safety Videos & Training CDs Available from Nevada Technical Associates

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TUE - 15 SEP AA  
STANDARD OVERNIGHT

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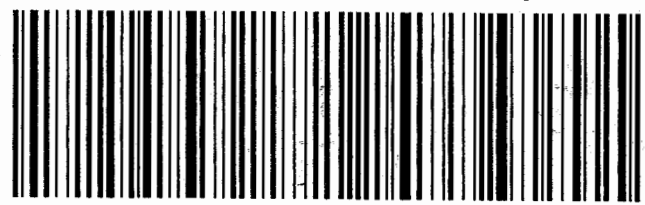


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00400

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Express US Airbill

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1 From [Redacted]  
 Date 9/11/15  
 Sender's Name Cheri Dorman Phone 870 741-9000  
 Company CARGILL INC  
 10 INDIANAPOLIS BLVD  
 State IN ZIP 46320  
 Shipping Reference

RT 493

Recipients Name Mr. Michael G Herr, CHP Phone 630 829-9500  
 Company Materials Licensing Branch  
 Address U.S. Nuclear Reg. Comm, Reg III  
 Address 2443 Warrentville Rd, Suite 210  
 City Lisle State IL ZIP 60532-4352

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