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REGION 1

Linguagen

Bringing Better Taste to Life

'05 MAY 12 A10 :15

Robert W. Bryant, Ph.D.
Vice President, Discovery Research

VIA FEDEX

May 11, 2005

Ms. Betsy Ullrich
Senior Health Physicist
Commercial and R&D Branch
Division of Nuclear Materials Safety
United States Nuclear Regulatory Commission
Region 1 Office
475 Allendale Road
King of Prussia, Pennsylvania 19406-1415

Q-5
MS-16

29-30560-01
03035334

RE: Request for additional information concerning application for amendment to license, Control No. 136445, specifically with regard to Cynthia Hendrix as our new RSO.

Dear Ms. Ullrich:

Cynthia Hendrix, Radiation Safety Officer for Linguagen Corporation, attended a training course January 10 – January 14, 2005, entitled "Radiation Safety Officer". The course took place at the Radiation Safety Academy, 481 N. Frederick Avenue, Ste.302, Gaithersburg, MD. Listed below is a description of Cynthia's training/experience in the following areas:

Principles and practices of radiation protection:

RSO Course Agenda Day 2 Radiation Protection Standards, 10 CFR Part 19 and 20
Day 5 Radiation Protection Program Management

Radioactivity measurements standardization and monitoring techniques and instruments:

RSO Course Agenda Day 3 Radiation Survey Instruments, Laboratory Instruments
Day 3 Instruments Lab, Applications & Troubleshooting, Leak Tests

Mathematics and calculations basics to the use and measurement of radioactivity:

RSO Course Agenda Day 2 Math Review & Radiation Safety Problem Solving

Biological effects of radiation:

RSO Course Agenda Day 2 External Dosimetry and Shielding
Internal Dosimetry

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Specific isotopes Cynthia has handled:

[35S]GTP γ S—used in G protein assays in uCi quantities, frequent use, since being hired at Linguagen in September of 2004 to present.

[3H]cAMP and [3H]adenosine—used in second messenger assays in low uCi quantities, infrequent use at Linguagen Corp.

[125I]—low uCi quantities used as standard for safety monitoring of various assays performed at Ortho Clinical Diagnostics (Johnson and Johnson), Raritan, NJ, between August 2002-August 2003.

Cynthia Hendrix's experience in performing the duties of RSO, including: to ensure that all users (where appropriate) wear personnel monitoring equipment when using licensed materials; to ensure that licensed materials are properly secured against unauthorized removal at all times when not in use; to perform routine inspections of all laboratories using or storing licensed materials; and to ensure that the terms and conditions of your license are met, and that all required records are maintained.

Before leaving Linguagen, Stacey Carlucci began familiarizing Cynthia with the standard operating procedure of RSO. More intensive training was obtained through the Radiation Safety Officer course (previously mentioned); relevant specifics of the course are given below and in attached agenda:

RSO Course Agenda

- Day 1 Radiation Fundamentals
- Day 2 Radiation Protection Standards, 10 CFR Part 19 and 20
Essential Highlights of 10 CFR Part 2, 30, 31, 33
External Dosimetry and Shielding
Internal Dosimetry
- Day 4 Radioactive Waste Management, Mixed Wastes, Waste Manifests
Xray Safety
- Day 5 Radiation Protection Program Management
Preparing for Regulatory Inspections, Emergency Response, Information Resources, Challenges to RSO's

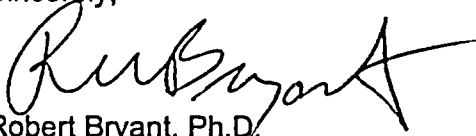
Topics covered in the radiation safety course:

See attached agenda.

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If you have any questions, or require any additional information, please contact me at
(609) 860-1500.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Bryant". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Robert Bryant, Ph.D.
Vice President of Research
Linguagen Corporation

RB/dk

Attachments (2): RSO Safety Officer Course Agenda
Certificate of Completion



RADIATION SAFETY OFFICER

January 10-14, 2005

Instructors: Ray Johnson, CHP, PE, RSO; Alan Fellman, PhD, CHP; Sean Austin, CHP,

This course is intended to provide a minimum of 40 hours of required and elective classes to meet provisions of 10 CFR 33.15. Required classes are already checked.

Please select elective classes for a total of 40 or more hours.

Day 1 Monday January 10, 2005

Class Selected	Start Time	Class Titles (electives in <i>bold, italics</i>)	Class Hours
<input checked="" type="checkbox"/>	8:00	Introduction, Course Overview, Radiation Fundamentals	4.0
	12:00	Lunch (provided)	
<input checked="" type="checkbox"/>	1:00	Radiation Fundamentals (continued)	3.0
<input checked="" type="checkbox"/>	4:00	Health Effects	2.0
<input type="checkbox"/>	6:00	<i>Training for the Radiation Safety Trainer</i>	1.5
	7:30	Adjourn	

Day 2 Tuesday January 11, 2005

Class Selected	Start Time	Class Titles (electives in <i>bold, italics</i>)	Class Hours
<input checked="" type="checkbox"/>	8:00	Radiation Protection Standards, 10 CFR Part 19 and 20	2.0
<input checked="" type="checkbox"/>	10:00	Essential Highlights of 10 CFR Part 2, 30, 31, 33	2.0
	12:00	Lunch (provided)	
<input type="checkbox"/>	1:00	<i>Medical Use Licensing, 10CFR Part 35</i>	1.0
<input type="checkbox"/>	1:00	<i>License Applications and Amendments</i>	1.0
<input checked="" type="checkbox"/>	2:00	External Dosimetry and Shielding	1.0
<input type="checkbox"/>	3:30	<i>Sealed Sources & Industrial Guages</i>	1.5
<input type="checkbox"/>	3:30	<i>Internal Dosimetry</i>	1.5
<input checked="" type="checkbox"/>	5:00	Legal Implications: Radiation Litigation	1.0
<input type="checkbox"/>	6:00	<i>Math Review & Radiation Safety Problem Solving</i>	1.5
	7:30	Adjourn	

Day 3 Wednesday January 12, 2005

Class Selected	Start Time	Class Titles (electives in <i>bold, italics</i>)	Class Hours
<input checked="" type="checkbox"/>	8:00	Radiation Survey Instruments, Laboratory Instruments	4.0
	12:00	Lunch (provided)	
<input checked="" type="checkbox"/>	12:30	Instruments Lab, Applications & Troubleshooting, Leak Tests	3.0
<input type="checkbox"/>	3:30	<i>Radiation Safety Surveys</i>	2.0
<input type="checkbox"/>	3:30	<i>Effective Communications for the Radiation Safety Officer as a Manager and Instructor</i>	2.0
<input type="checkbox"/>	5:30	<i>Laboratory Survey and PPE Exercise</i>	1.5
	5:30	Adjourn	

Day 4 Thursday January 13, 2005

Class Selected	Start Time	Class Titles (electives in <i>bold, italics</i>)	Class Hours
<input checked="" type="checkbox"/>	8:00	Interpreting Radiation Measurements and Quality Assurance	2.0
<input checked="" type="checkbox"/>	10:00	Shipping and Receiving Radioactive Materials, DOT Training Requirements	2.0
	12:00	Lunch (provided)	
<input checked="" type="checkbox"/>	1:00	Transportation (continued), Transportation Exam	3.5
<input type="checkbox"/>	4:30	<i>Radioactive Waste Management, Mixed Wastes, Waste Manifests</i>	1.5
<input type="checkbox"/>	4:30	<i>X-Ray Safety</i>	1.5
<input type="checkbox"/>	6:00	<i>Course Review and Preparation for Final Exam (Refreshments)</i>	1.5
	7:30	Adjourn	

Day 5 Friday January 14, 2005

Class Selected	Start Time	Class Titles (electives in <i>bold, italics</i>)	Class Hours
<input checked="" type="checkbox"/>	8:00	Radiation Safety Program Management	1.0
<input checked="" type="checkbox"/>	9:00	Preparing for Regulatory Inspections, Emergency Response, Information Resources, Challenges for RSO's	2.0
<input checked="" type="checkbox"/>	11:00	Final Exam (passing grade of 70% correct is required)	1.0
	12:00	Presentation of Certificates and Adjourn	

AAHP has awarded this course 32 Continuing Education Credits, 2003-00-018.
ABIH has awarded this course 4.5 CM Points, CM Approval # 03-021

Certificate of Training

Awarded To

Cynthia Hendrix

Recognizing completion of 40 hours of specialized instruction in

Radiation Safety Officer

January 14, 2005

Presented By

Radiation Safety Academy

481 North Frederick Avenue, Suite 302
Gaithersburg, Maryland 20877

AAHP has awarded this course 32 Continuing Education Credits, 2003-00-018

ABIH has awarded this course 4.5 CM Points, CM Approval # 04-185



Raymond Johnson, MS, PE, RSO, FHPS, CHP
Academy Director

