A
030-18287

Weyerhaeuser
Grayling Structurwood®
4111 West Four Mile Road
Grayling, MI 49738
Tel (989) 348 2881

United States
Nuclear Regulatory Commission
Attention: Materials Licensing Branch Chief
Region III
801 Warrenville Road
Lisle, IL 60532-4351

November 12, 2004

Subject: Requested Amendment, License #21-20351-01

To: Materials Licensing Branch Chief

Please amend our license #21-20351-01 to add condition # 12 C. That if the RSO is not available and in case of emergency the licensed material shall be under the supervision of Craig Malone or Dale Kukla.

Also this is to inform you that Mr.Philip G. Verdui has retired from Weyerhaeuser Company as of the beginning of October and that John A. Sinnaeve will assume his role as Radiation Safety Officer after he completes his Radiation Safety Officer Training course. The course is schedule from 12/6/2004 through 12/10/2004. It is a 40-hour course provided by Radiation Safety & Controls Services. They are located at 91 Portsmouth Avenue, Stratham, NH 03885-2468. Upon completion of this couhrse the certification of completion will be faxed to Colleen Cascy at (630) 829-9782 or (630) 515-1259.

When completion is confirmed, please change condition #12 a. to read, "The Radiation Safety Officer (RSO) for this license is John A. Sinnaeve."

Sincerely,

John A Sinnaeve

John A. Sinnaeve
Safety and Training Director
(989) 348-3455
Fax (989) 348-8226

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Weyerhaeuser
4111 West Four Mile Road
Grayling, MI 49738

Date: 12/12/2004
Number of Pages (including cover): 8

TO:	Collen Casey or Materials Licensing Branch Chief	FROM:	John Sinnaeve
Company:	United States Nuclear Regulatory Commission	Company:	Weyerhaeuser Company Grayling, MI
Phone:	630 829-9841	Phone:	(989) 348-3455
Fax:	(630) 829-9782	Fax:	(989)348-8226

Comments:

Enclosed you will find a copy of the request for amendment dated November 12th 2004 and my Certification for completion of training for Radiation Safety Officer. Also I have attached the training course outline.

Thanks for your Support

John Sinnaeve

PLEASE RECYCLE!

Weyerhaeuser

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John A Sinnaeve

John A. Sinnaeve
Safety and Training Director
(989) 348-3455
Fax (989) 348-8226

Radiation Safety & Control Services, Inc.

Awards this certificate to

John Sinnaeve

in recognition of satisfactory completion of our 40-hour

Radiation Safety Officer Training Course

Las Vegas, Nevada

December 6 - 10, 2004

Frederick P. Staccia, CHP

This course has been approved for 40, Category A, CE credits (reference number NHZ0183001) by the ASRT Dept. of Education.

NOTE: This class satisfies the Department of Transportation requirements listed in 49 CFR 172.704 and expires three years from the date listed above.

Radiation Safety & Control, Inc.

Radiation Safety Officer Training Course

Formal NRC Radiation Safety Training Equivalent Hours

	TRAINING CATEGORY	I	II	III	IV
Monday	Introduction and Course Objectives		0.75		
	Math Review			1.00	
	Nuclear Physics Review	1.00		0.75	
	Radiation and Radioactive Material	1.00		0.75	
	Interaction of Radiation With Matter	1.75		1.00	
Tuesday	Interaction of radiation with Matter (con't)	2.25			
	Radiation Exposure and Dose		1.00	0.75	
	Biological Effects of Radiation				1.75
	Radiological Hazards		1.00		1.25
	Special Topics in Radiation Protection		2.00		
Wednesday	Radiological Hazards		4.00		
	Principals of radiation Detection	4.00			
Thursday	Operational Radiation Safety Program		5.75		
	Planning For Emergencies		2.25		
	Special topics in Radiation Protection		2.00		
Friday	Nuclear Regulatory Commission Regulations		2.25		
	Transportation of Radioactive Material		1.75		
	Totals	10.00	22.75	4.25	3.00

Category I: Radiation Physics and Instrumentation
Category II: Principles and Practices of Radiation Protection
Category III: Mathematics Pertaining to the Use and Measurement of Radioactivity
Category IV: Biological Effects of Radiation

Radiation Safety Officer Training Course

COURSE SCHEDULE

Radiation Safety & Control Services, Inc

Monday

8:00am	Introduction and Course Objectives
9:15am	Math Review
10:00am	*Break*
10:15am	Nuclear Physics Review
12:00pm	*Complimentary Lunch*
1:00pm	Radiation and Radioactive Material
2:30pm	*Break*
2:45pm	Interaction of Radiation With Matter
5:00pm	*Social Hour*

Tuesday

8:00am	Interaction of Radiation with Matter
10:00am	*Break*
10:15am	Radiation Exposure and Dose
12:00pm	*Lunch*
1:00pm	Biological Effects of Radiation
2:30pm	*Break*
2:45pm	Radiological Hazards
5:00pm	Break
7:00pm	Optional - Special Topics in Radiation Protection
9:00pm	*Class Ends*

Wednesday

8:00am	Radiological Hazards
10:00am	*Break*
10:15am	Radiological Hazards
12:00pm	*Lunch*
1:00pm	Principals of Radiation Detection
2:30pm	*Break*
2:45pm	Principals of Radiation Detection
5:00pm	*Class Ends*

Thursday

8:00am	Operational Radiation Safety Program
10:00am	*Break*
10:15am	Operational Radiation Safety Program
12:00pm	*Lunch*
1:00pm	Operational Radiation Safety Program
2:30pm	*Break*
2:45pm	Planning For Emergencies
5:00pm	Break
7:00pm	Optional - Special Topics in Radiation Protection
9:00pm	*Class Ends*

Friday

8:00am	Nuclear Regulatory Commission Regulations
10:00am	*Break*
10:15am	Transportation of Radioactive Material
12:00pm	*Class Commencement*

Radiation Safety Officer Training Course Outline:
RSCS Inc.

- Math Review
  - Basic Definitions and Operations
  - Problem Solving
  - Graphical Analysis
  - Powers
  - Scientific Notation
  - Exponentials and Logarithms
- Nuclear Physics Review
  - Atomic Structure
  - Nucleus
  - Fundamental Properties
    - Mass, Charge, Energy, Force
    - Electrical & Chemical
  - Nuclear Force
- Radiation & Radioactivity
  - Radiation
    - Definition
    - Types of Radiation
  - Radioactivity
    - Definition
    - Units of Measure
    - Half Life & Decay Law
  - Interaction of Radiation with Matter
    - Penetrating Radiation
    - Non-Penetrating Radiation
      - Charged Particle Interactions
      - Coulomb Forces
      - Radiative Losses
    - Gamma & X-Ray Interactions
      - Photoelectric Effect
      - Compton Scattering
      - Pair Production
- Radiation Exposure and Dose
  - Fundamental Concepts
    - Exposure
    - Absorbed Dose
    - Dose Equivalent
    - Total Effective Dose Equivalent, TEDE
    - Committed Effective Dose Equivalent, CEDE
    - Deep Dose Equivalent, DDE

Radiation Safety Officer Training Course Outline:
RSCS Inc.

- Background Radiation Exposure
  - Natural Sources
  - Technologically Enhanced Sources
- Biological Effects of Radiation
  - Background
  - Sequential Patterns of Biological Effects
  - Cellular Effects
  - Types of Exposure
    - Acute
    - Chronic
  - Types of Biological Effects
    - Short Term Effects
    - Long Term Effects
    - Genetic Effects
  - Federal Exposure Limits and Risk Estimates
- Radiological Hazards
  - External Radiation Dose
    - Penetrating (gamma)
    - Non-Penetrating (beta)
    - Rules of Thumb
    - Time, Distance, Shielding
  - Internal Radiation Dose
    - Units of Measure
    - Fixed vs Removable Contamination
    - Internal Hazards and Entry Routes
    - Airborne Radioactivity
    - Protection Methods
- Radiation Detection and Measurement
  - Basic Principles
    - Gas Filled Detectors
    - Scintillation Detectors
    - Solid State Detectors
  - Sample Analysis Applications
    - Detector Efficiency
    - Counting Statistics
    - Minimum Detectable Activity
  - Dose and Dose Rate Measurements
    - Dose Rate Meters
    - Dosimeters

Radiation Safety Officer Training Course Outline:
RSCS Inc.

- Contamination Measurements
  - Direct Methods (Friskers)
  - Indirect Methods
  - Swipes
  - Laboratory Instruments
- Operational Radiation Safety
  - Organization
  - Facility Design
  - Radiation Safety Program Goals
    - General Public
    - Radiation Workers
    - ALARA
  - Requirements
  - Annual Radiation Protection Program Audits
- Planning for Emergencies
  - Nature of Radiation Accidents
  - Planning for Radiation Accidents
    - Types of Accidents
    - Planning Criteria
  - Responding to Accidents
  - The Role of Federal, State, and Local Agencies
  - General Rules for Health Physicists and RSOs
- Regulations Pertaining to Radiation Protection
  - NRC/Agreement States - License Requirements
    - 10CFR20
    - 10CFR19
  - DOT - Transportation Requirements
  - EPA - Environmental/Effluent Considerations
- Transportation of Radioactive Material
  - Regulatory Agencies
  - Title 49 - Department of Transportation
    - 49 CFR 171: General Information
    - 49 CFR 172: Hazmat Tables
    - 49CFR 173: Reqts for shippers
    - 49 CFR 177: Public Highway
  - Title 10 - Nuclear Regulatory Commission
    - 10 CFR 71: Packaging of RAM
  - Title 39 - U.S. Postal Service
    - US Postal Service Publication #6

Radiation Safety Officer Training Course Outline:
RSCS Inc.

- 3 Considerations When Shipping
- The A(1) and A(2) System
- Quantity Limits
  - Radioactive Material
  - Limited Quantity
  - Type A Quantity
  - Type B Quantity
  - Highway Route Controlled Quantity:
  - Low Specific Activity (LSA)
  - Instruments or Articles: Solids
  - Three types of packaging
    - Container Type Determination
- Transport Index
- Warning Labels
  - White I
  - Yellow II
  - Yellow III
- Contamination Control
- Shipping Papers

Radiation Protection Program Assessments

- Purpose of Assessments
- Types of Assessments
- Preparations for Assessments
- Conducting Assessments
- Documentation
- Lessons Learned