

Location • 4111 West Four Mile Rd. • Grayling, MI 49738

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January 6, 2017

Director, Office of Nuclear Materials Safety and Safe Guards
Attention: GLTS
US Nuclear Regulatory Commission
Washington DC 20555-0001

Subject: Amendment Request, General License #21-20351-01

Weyerhaeuser requests that our license be amended to list Faith Dandois as the sites Radiation Safety Officer (RSO) and to list Kathi Moss as the assistant RSO. Ms. Dandois will assume full responsibility as the RSO on February 1, 2017.

Copies of Ms. Dandois' certificate of completion and course outline are included with this communication.

Please contact Kathi Moss at Kathi.moss@weyerhaeuser.com or (989) 348-3475 with any questions you may have regarding this request.

Regards,



Rina Allen
Mill Manager

cc: Kathi Moss, Environmental Manager, Weyerhaeuser
Faith Dandois, EH&S Coordinator, Weyerhaeuser

Radiation Safety & Control Services, Inc.

Awards this certificate to

Faith Dandois

in recognition of satisfactory completion of a 40 hour course in

Radiation Safety Officer Training

Exeter, NH

September 12-16, 2016




Jennifer A. Collins - Enrolled Training Manager

Course Instructors: Frederick P. Straccla, CHP

This course has been approved for 40 Category A CE credits (reference number NHZ0183001, expiration date: 1/1/2018) by the ASRT *Activity Approved by ASRT* and 40 CE credits by the AAHP (ID number 2013-00-002).

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