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COURSE DESCRIPTION

- Course Title:** Unreviewed Safety Questions
- Course Length:** Twenty-four hours
- Course Limit:** 30 students
- Intended Audience:** DOE and contractor personnel who are involved with the preparation, review, and approval of the Unreviewed Safety Questions (USQ) process. This may include Facility Management, Safety Analysts, Operations Personnel, DOE Program Managers, DOE Facility Representatives.
- Course Description:** This course, endorsed by the DOE Office of Nuclear Safety Policy and Standards, teaches the requirements and intent of 10 CFR Part 830, "Nuclear Safety Management," Regulation Subpart B, Section 830.203, and DOE G 424.1-1, "Implementation Guide for Use in Addressing Unreviewed Safety Question Requirements." It presents the purpose of and terminology specific to the USQ process, as well as the key aspects of the USQ process. Using an interactive written case study, the student develops competencies in conducting USQ Applicability Assessment, Screening, and Determinations. This course incorporates the most recent application/implementation interpretations for this process from DOE Headquarters.
- Supporting Material:** Unreviewed Safety Question student text, Case Study handouts
- Evaluation:** A closed book, written exam is administered upon completion of the training course.
- Prerequisites:** General familiarity with 10 CFR Part 830.203 and DOE G 424.1-1
- Cost:** Estimate available upon request
- Attachments:** Course outline
- Point of Contact:** Bill Lapsansky
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Epsilon Systems Solutions, Inc.

COURSE OUTLINE

Course Title: Unreviewed Safety Questions

Outline:

1. Background and Terminology

- a. Identify Hazards
- b. Differences Between Hazards and Risks
- c. Authorization Basis
- d. Safety Evaluation Report
- e. Documented Safety Analysis
- f. Safety Basis

2. Purpose of the USQ Process

- a. Overall Purpose of the USQ Process
- b. Context of USQ Process
- c. 10CFR830.203 General Requirements

3. USQ Process Overview

- a. USQ "Environment"
- b. Change Control
- c. Process Inputs
- d. USQ Applicability
- e. USQ Screening
- f. USQ Determination
- g. Process Outputs
- h. Who is Involved

4. USQ Applicability

- a. Purpose
- b. Inputs – General Types
- c. Outputs – General Types
- d. Process Applicability
- e. Process Non-Applicability
- f. Flow Chart

5. USQ Screening

- a. Purpose
- b. Outputs
- c. Screening Criteria
- d. Meaning of "as described in the existing documented safety analysis"
- e. Implicitly Described & New Hardware
- f. Implicitly Described & New Procedures
- g. General Screening Categories
- h. Flow Chart

6. USQ Determination (USQD)

- a. USQD Criteria
- b. Application Guidance
- c. Increases in Probability
- d. Increases in Consequences
- e. Reduction of Safety Margin

7. Request for Amendment to Safety Basis

- a. Use and Description
- b. USQD Special Situations
- c. Partially Implemented Modifications
- d. Discrepant As-Found Conditions
- e. USQ Personnel Qualifications

8. Potentially Inadequate Safety Analyses (PISA)

- a. Explanation of PISA
- b. Entry Conditions
- c. Required Actions
- d. USQD Approach
- e. Limited Exemption
- f. Flow Chart

9. Documentation and Reporting

- a. USQ Documentation Requirements for USQ Actions
- b. Record Retention
- c. USQ Reporting
- d. Incorporating DSA Changes
- e. Annual Summaries

10. Case Study Applications

- a. Worksheet Introduction
- b. Physical Modifications
- c. Procedure Changes
- d. New Operations (Tests & Experiments)

11. Course Examination