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Secure Transportation Management

Workshop Overview
October 2014
Course Information

Course Title

- Secure Transportation Management Course (STMC)

Course Length

Option 1 – 5 days

Option 2 – 11 days (additional exercises)
  
  Week 1 - Mon – Sat
  
  Week 2 – Mon - Fri
The STMC course provides managers with information related to procedures and equipment used to successfully transport special nuclear material. The information presented is reinforced through the use of numerous practical exercises. Each practical exercise is a building block for the next exercise, designed to defend against the identified threat.
Mission and Purpose (continued)

Following the final lesson there will be three practical convoy exercises. These exercises consist of three different routes, conducted over three days.

*Note: Only in 2 week version*
Scope

The course focuses on the following topical areas from a managers perspective:

• Understanding the regulatory framework for secure transportation of special nuclear materials
• Identifying the insider and outsider threat(s) to secure transportation
Scope (continued)

- Organization of a secure transportation unit
- Management and supervision of secure transportation units
- Equipment and facilities required
- Training and qualification needed
Scope (continued)

- Communications on a national, convoy, and individual level
- Documentation of practical exercises
- Vulnerability assessments of secure transportation units/convoys
- Conduct of convoy operations
- Three practical exercises in convoy operations
Lesson 1: Regulatory Framework

Goal:

- A working level knowledge of the secure transportation nuclear regulatory framework.

Objectives:

- Discuss the regulations that govern the security and transportation of nuclear material.
- Discuss the organizational alignment for those responsible for nuclear transport.
Lesson 2: Threats to Nuclear Materials in Transport

Goal:

• A working level knowledge of the threats to nuclear materials convoys and facilities and the impact these threats have on transportation security operations.

Objectives:

• Discuss the purpose of a Design Basis Threat.
Objectives: (continued)

• Discuss the three questions that any good threat definition should answer.

• Discuss the types of adversaries which may threaten a nuclear material convoy or facility.

• Discuss tactics employed by adversaries.

• Discuss the capabilities of potential adversaries.
Lesson 2: Threats to Nuclear Materials in Transport (continued)

Practical Exercise:

• Threat Identification Exercise
  ▪ Provide an awareness of the threats that convoys may face, and to provide practical experience developing threat tables.
Lesson 3: Organization of a Secure Transportation Unit

Goal:
• A working level knowledge of how to organize a secure transportation unit.

Objectives:
• Discuss the organization created to provide safe and secure transportation of nuclear weapons, nuclear weapon components, and special nuclear material (SNM).
Lesson 3: Organization of a Secure Transportation Unit (continued)

Practical Exercise:

- Secure Transportation Organizational Structure Exercise
  - Design and discuss the organizational structure of a secure transportation unit.
Lesson 4: Management and Supervision

Goal:

• A working level knowledge of hiring and retention practices, and the management and supervision structure as related to secure transportation personnel.

Objectives:

• Discuss the selection process to ensure quality candidates
Lesson 4: Management and Supervision (continued)

Objectives: (continued)

- Discuss candidate entry level training
- Discuss using a systematic approach to training to achieve performance based metrics
- Discuss the management and supervision organizational structure
Practical Exercise
• Secure Transportation Protective Force Type and Size
  ▪ Determine the required size and makeup of a secure transportation protective force necessary to guard a materials transport.
Lesson 5: Equipment and Facilities

Goal:

• A working level knowledge of the equipment and facilities needed to support convoy operations

Objectives:

• Discuss vehicles needed for convoy operations
• Discuss the equipment each agent needs for convoy operations
• Discuss the facilities needed to support convoy operations
Lesson 5: Equipment and Facilities
(continued)

Practical Exercise:

• Equipment Needs Exercise
  ▪ Determine the equipment required to support a secure transportation unit.
Lesson 6: Training and Qualifications

Goal:

• A working level knowledge of the importance of training and qualifications in an effective and efficient secure transportation operation

Objectives:

• Discuss the requirements for training and qualification programs
Objectives:

• Discuss the importance of a systematic performance-based training process
• Discuss required instructor qualifications
• Discuss the types of training required
• Practical Exercise: Training Requirements
• Determine the training required to support a secure transportation unit.
Lesson 7: Communications

Goal:
• A working level knowledge of convoy operation communication needs.

Objectives:
• Discuss the types of communications needed to track a convoy
Lesson 7: Communications (continued)

Objectives:

• Discuss communications between the communication center and each convoy
• Discuss vehicle to vehicle communications
• Discuss individual portable communications
• Discuss radio communication procedures
Lesson 7: Communications (continued)

Practical Exercise:

• Tactical Communications
  ▪ Introduce the concept of tactical communications.
Lesson 8: Documentation

Goal:

• A working level knowledge of plans and orders and the purpose of a Transportation Security Plan

Objectives:

• Discuss characteristic of good plans and orders
• Discuss types of plans and orders
Lesson 8: Documentation (Continued)

Objectives:

• Discuss requirements for well documented plans and orders

• Discuss the purpose and application of a Transportation Security Plan

• Practical Exercise: Transportation Security Plan
  ▪ Write a Transportation Security Plan using the IAEA format.
Lesson 9: Vulnerability Assessments on Secure Transportation

Goal:
• A working level knowledge of vulnerability analysis techniques as applied to Secure Transportation Management

Objective:
• Discuss the VA process and the specific tool used in this course (VISA)
Objectives:

• Conduct practical exercises using identified theft scenarios and the VISA tool to define various levels of conditional risk for each scenario

• Conduct a characterization of a notional road convoy focusing on physical security elements
Practical Exercises:

• 1) Transportation Security Pre-Convoy Operations; 2) Adversary Timeline; 3) Table Top Exercise Documentation Report; 4) Short Convoy

  ▪ Provide an awareness of the process associated with performing a transportation vulnerability analysis and to provide practical experience developing check lists, timelines and analysis matrixes.
Lesson 10: Convoy Operations
(2 week version only)

Goal
• A working level knowledgeable of convoy operations

Objectives
• Discuss the transportation element under normal operations
Lesson 10: Convoy Operations (continued)

Objectives

- Discuss the response element under normal operations
- Discuss convoy and vehicle assignments
- Discuss convoy departure and arrival times
- Discuss the pre-trip briefings
Lesson 10: Convoy Operations (continued)

Objectives

• Discuss the convoy activities during stops
• Discuss interaction with outside agencies
• Discuss accepting and releasing cargo responsibilities
• Discuss destination arrival activities
• Discuss convoy reactions to an attack
Lesson 10: Convoy Operations (continued)

Practical Exercises

• Convoy Operations
  ▪ Provide the opportunity to observe and participate in simulated convoy operations.