

## Demonstration/Exercises

### **NPP Secure Storage Receipt of Fresh Fuel**

Topic: Sabotage and NMAC – Fresh Fuel Receipt/Inspection

Location: Reactor receiving area (TA-V Materials Receiving Area (MRA))

Overview: A demonstration was held in the Material Receiving Area to illustrate that as part of good ITM practices, only technically qualified personnel with equal knowledge of an operation should be allowed to perform certain duties. Employee qualifications should be checked before each operation and their access should be specifically authorized. Operational procedures should be specifically followed, and operations should be postponed until all measures related to ITM are able to be properly implemented.

#### **Good Practices for Discussion:**

- I. Access Control:*
  - A. Workers require official badge to enter area, which demonstrates:
    1. Employee is technically qualified to be in area.
      - a. Trained on operational procedures.
      - b. Safety and security training complete.
    2. Preventive measures (Trustworthiness and Reliability) have been implemented.
    3. Access is authorized to nuclear material, equipment, and data.
  - B. Plan of the day (POD) Meeting
    - a. Supervisor checks that workers are authorized to perform job functions.
    - b. Job scope is approved.
    - c. Safety and security procedures are reviewed.
  - C. Access control procedure are implemented, and records updated.
  - D. Inspection of any equipment or materials brought into the secure storage area.
- II. NMAC Measures:*
  - A. NMAC Procedures: Workers are trained on use of NMAC procedures and use them during the operation.
  - B. Control measures are followed:
    - a. Shipping containers are inspected to tampering or damage.
      - i. TIDs are used according to a formal program including procurement, storage, issuance, use and destruction.
    - b. Records are generated associated with the receipt of fresh fuel.
      - i. Shipping/Receiving, Item history and MBA records generated.
    - c. Two-person rule is followed.
  - C. Formal receipt of materials is conducted.
    - a. Confirmatory measurements are made and compared to shipping records.
    - b. Discrepancies identified, resolved, and documented.
- III. Physical Security Measures:*
  - a. Work is performed in a secured and controlled area designated for associated work.
  - b. Reinforced concrete building walls, barriers, locked and alarmed doors, guards, cameras