THE ARGONNE CENTER FOR EDUCATIONAL AFFAIRS
THE ROLE OF GUARD FORCES IN MATERIALS AND PLANT PROTECTION
ACCESS CONTROLS.

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INTRODUCTION

The material being presented in this discussion is taken from the following Federal requirements:

1. Nuclear Regulatory Guide 5.7, 5.12 and 5.20
2. Energy Research and Development Administration Manual Chapters 2401 and 2405
3. Code of Federal Regulations CFR 10 Parts 70 and 73

No discussions of classified procedures, equipment or buildings will be made nor will any classified information be discussed.
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I. INTRODUCTION
A. Historical Aspects
1. Receptionist
2. Watchman
3. Industrial Security Guard (unarmed)
4. Employee Badge
5. Armed Security Guards

II. DEFINITIONS
1. Guard
2. Watchman
3. Patrol Watchman
4. Access Control

III. FEDERAL GUIDES AND REQUIREMENTS
1. Nuclear Regulatory Commission
   Regulatory Guide 5.7
2. Energy Research and Development Administration (ERDA)
   Chapter 2401, 2405
3. Code of Federal Regulations
   10 CFR:
   a. Part 70, Special Nuclear Material
   b. Part 73, Physical Protection of Special Nuclear Material

IV. DISCUSSION

A. Protected Areas

1. Physical Barriers
   a. Fences
   b. Walls
   c. Buildings
   d. Points of Ingress/Egress
   e. Doors
   f. Windows
   g. Unattended Openings
   h. Locks

2. Isolation Zones

B. Material Access Areas

1. Physical Barriers
   a. Walls
   b. Buildings
   c. Points of Ingress/Egress
   d. Doors
   e. Windows
   f. Unattended Openings
   g. Locks
V. ACCESS CONTROLS

A. Protected Areas
   1. Identity/Authorization (Badges, Clearances)
   2. Personnel Search
   3. Metal Detectors
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   5. Alarm Communication
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B. Material Access Area
   1. Change Room
   2. SNM Detector
   3. Door Interlock
   4. Search of Packages
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   6. Alarms

C. Vaults
PROTECTED AREA

INNER DOOR

SNM DETECTOR

ACCESS PASSAGEWAY

GUARD STATION

WEAPON EXPLOSIVES DETECTORS

OUTER DOOR

PERIMETER FENCE

RECEPTION AREA

PERIMETER FENCE

SECURE ACCESS PASSAGEWAY AT ENTRANCE TO PROTECTED AREA (ATTENDED)
PROTECTED AREA

INNER DOOR
WEAPON (METAL) DETECTOR
KEY-CARD READER (FOR EXIT)
PERIMETER FENCE
PERIMETER FENCE
SECURE ACCESS PASSAGeway

CCTV CAMERA
EXPLOSIVES DETECTOR
KEY-CARD READER
OUTER DOOR

SECURE ACCESS PASSAGeway INTO PROTECTED AREA (UNATTENDED)
PROTECTED AREA

- MATERIAL ACCESS AREA
- INNER CHANGE ROOM
- OUTER CHANGE ROOM
- GUARD STATION
- SECURE ACCESS PASSAGEWAY
- H.P. SHOWER
- SHOWERS
- ENTRANCE

SECURE ACCESS PASSAGEWAY BETWEEN CHANGE ROOMS