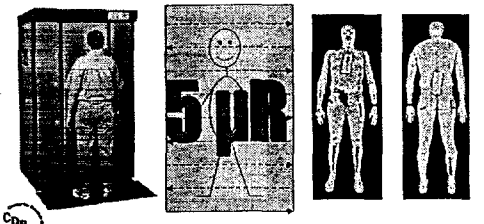
Update on Personnel Security Screening Systems

PRESENTED TO

THE TECHNICAL ELECTRONIC PRODUCT RADIATION SAFETY STANDARDS COMMITTEE

Fall 1999

What is a Personnel Security Screening System?



Specifications

- Beam: 1 cm x 1cm square (approximately)
- Tube Potential and current: 50 kVp & 5 mA
- Source to subject distance: 81 cm
- Scan length: 3 seconds
  - 72 microseconds dwell time for any one area
- Exposure: 5 μR

Issue

- Non-medical Exposure to Ionizing Radiation
  - Linear No Threshold Model
  - Societal Benefit from Increased Security

TEPRSSC Recommendations (1998)

- To work cooperatively with manufacturers so that:
  - State regulators are aware of installations
  - X-ray machines are registered
  - Operators are trained in radiation safety
  - Units are labeled as x-ray producing machines
- To develop a federal performance standard for Personnel Security Screening Systems

FDA Activities

- Issue a letter to manufacturers
- Develop ANSI WG Consensus Standard
  - Chaired by Frank Cerra, OST
  - FDA, Manufacturers, States, Users
- Require full product reports