Nuclear Security Case Study

Nuclear Power Facilities

Armory Management & Security Weapons, Gear, Ammo Tracking

Weapons, Gear, Ammo Registry

RFID ID Card Personnel Validation

Passively Track Personnel, Weapons, Gear and Ammo 'walking through door'

Electronic Signature Pad to Validate Custody Transfers

Rapid Armory Inventories

Weapon Tracking and Security System

Challenge

Nuclear Power Facilities are a significant security concern for governments and industry. Terrorist penetration and potential reactor meltdown would cause a national crisis and at minimum a 100 mile diameter area of contamination, potentially killing millions of people. It is critical that nuclear power facilities maintain significant weaponry and all guarded by security personnel 24 x 7 x 365.

Solution

Virtual Doxx Corporation's ARMS Armory Management System was selected by a nuclear power facility to modernize armory operations and speed shift changes during which security personnel return and are issued weapons, gear and ammo. Facility vulnerability is greatest during shift changes, requiring rapid personnel change-over and personnel reaching post assignments as expediently as possible. Weapon and ammo accountability through issue / return tracking and armory inventories, to meet the Nuclear Regulatory Commission's '100% accountability' mandate.

System Components

➤ Personnel validation by RFID ID card and ARMS photo

➤ Passive weapons, gear and ammunition tracking as personnel travel through armory doorway

➤ Personnel Certification and ARM/Do-Not-Arm status validation

➤ Weapon and ammo accountability at all times to meet Nuclear Regulatory Commission guidelines

➤ Portable scanner rapidly inventories armory

➤ Customized reporting as required by the Nuclear Regulatory Commission

Personnel Validation, Weapon Accountability and Armory Security

Armory Doorway Tracking

➢ Personnel are validated by RFID ID card as they enter or exit armory

➢ Personnel weapon certifications and 'arm / do-not-arm' status are validated

➢ Pistol, long arm, key fob, mace spray, dosimeter, radio and personnel motion sensors are all tagged with RFID and are automatically assigned to personnel when walking through doorway

➢ Objects detected by RFID display on Flat screen monitor at doorway, enabling personnel to validate that all objects were detected by RFID

➢ Multiple styles of antennas available, up to 7' high, to ensure optimal RFID performance

➢ All detected objects update weapon, gear and ammo locations within ARMS database

➢ All detected objects detected updated the objects 'audit trail' chain-of-custody in ARMS

Armory Inventories

➢ After shift changes, all weapons, gear and ammo are inventoried with portable RFID scanner from up to 10' distance

➢ Portable scanner syncs to ARMS database via USB-to-workstation connection or WiFi

➢ After each shift change and inventory, reports are generated ensuring 100% accountability of all weapons, gear and ammo detected at door or inventoried

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ARMS RFID
Armory Management System
Radio Frequency Identification