

DC Cook

Simulator Security

# Simulator Security

- Exam items (2 major categories)
  - People control; area boundaries/doors
  - Data control; access to exam information

# Simulator Security

- Data control (history)
  - PPC history
  - RMS history
  - Triconex history
  - Recorder history
  - Instructor station history
  - NRC data collection

# Simulator Security

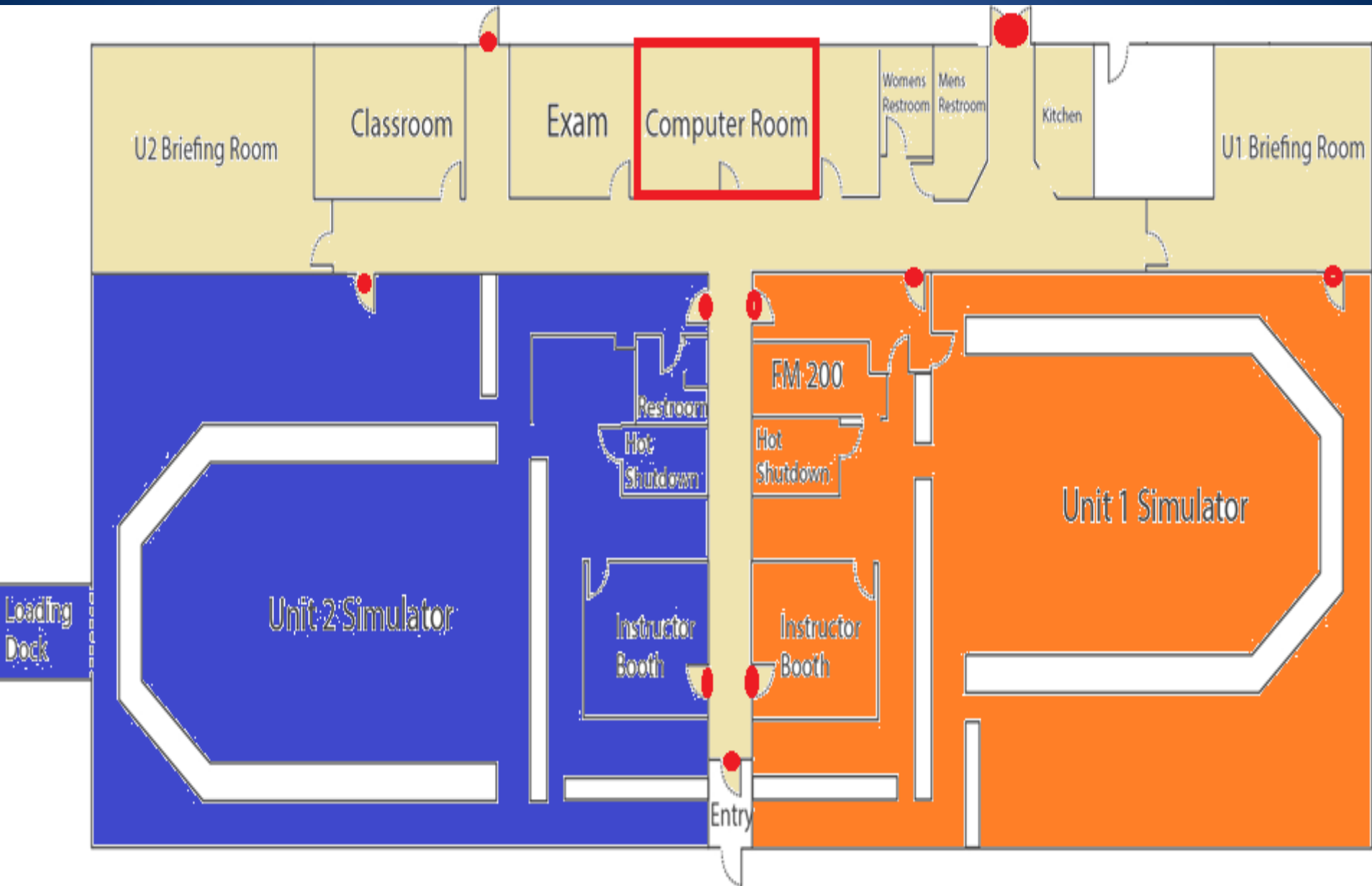
- Data control (during exam)
  - Network isolation
  - Phone systems
  - PA system

# Simulator Security

- People control
  - Unit specific doors
  - General area access
  - Computer room
  - Exam room

# Simulator Security

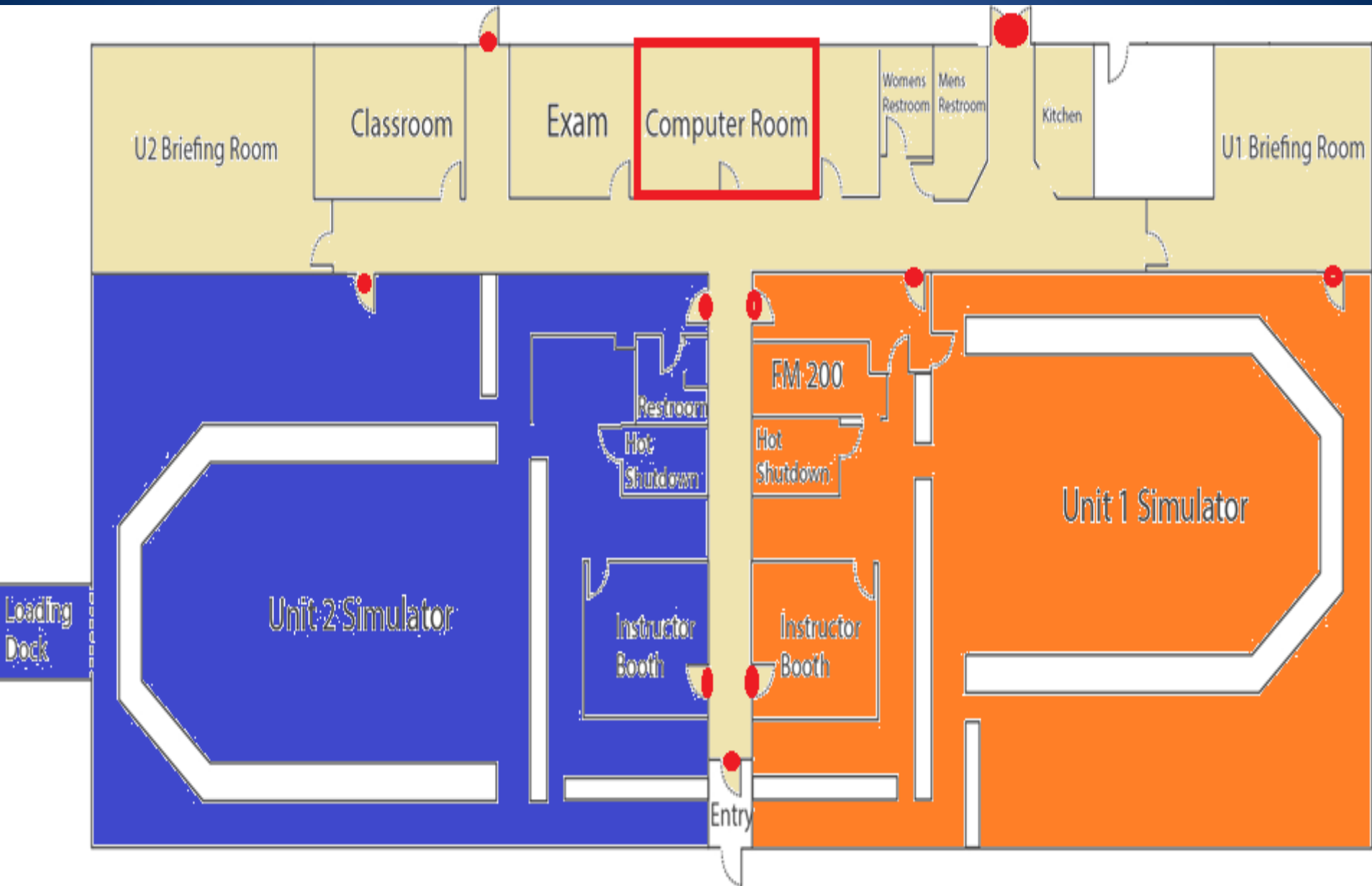
- Complexities of dual unit simulation
  - Phones/PA System
  - PPC history
  - Hot standby panel
  - Multiple entry doors and area control



# Simulator Security

- 5 zones of security
- General area
- Exam Room
- Computer room
- Unit 1
- Unit 2





# Simulator Security

- Exam Development Room
  - Independent electronic lock controlled through hand geometry reader
  - Battery backup for loss of power event
  - Operating Experience
    - Primary power supply breaker was opened to perform maintenance on the simulator
    - Backup battery discharged
    - Lost Exam Room door security

# Simulator Security

- January 2016.
  - Concurrently run NRC validation of the ILT exam while conducting ILT audit exams. Problem is both exams used both units.



# Simulator Security

- Area separation
  - Independent software from the exam room security using plant access badges
  - Apollo security card readers and system
  - Door locks are set up in four zones with a custom program that accesses each card reader 'exception' list
  - Enables access flexibility

# Simulator Security

- Pre-existing groups for developing access rights ( Ops, E-Plan, Training, ILT, LOR)
- Select personnel from the database for the applicable group
- Determine doors to secure
- Set the security using the desired group
  - Selected doors are now only accessible by cardholders on the selected list

Microsoft Access - [frmSimulatorAccessList]

File Edit View Insert Format Records Tools Window Help

Type a question for help

Find

Badge	Last Name	First Name	FID	Training	Operations	EP	ILT NRC Security Agreement	RQ NRC Security Agreement	General Area Access	Unit 1 Simulator Access	Unit 2 Simulator Access	Computer Room Access
5656	Bilencio	Ira	604	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6691	Conrad	Tad	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2179	Garrison	Tim	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17861	Johansen	Tim	554	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4073	Kelley	Christoph	583	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12595	Mierou	Mika	360	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5137	Ott	Tonya	7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12762	Pettinger	Steve	538	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17394	Russo	Shane	319	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7451	Salvati	Keith	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16935	Valley	Todd	26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6484	Vince	Scott	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2074	Vincenzo	Tim	422	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Set ILT NRC Security    Set RQ NRC Security    Update Badge List    Reset Security    Apply

Record: 14 of 13 (Filtered)

Form View

FLTR    NUM    SORT

start    Simulator Security (D...    frmSimulatorAccessList    Hardware Status (14)    APACS 3.0 Light Al...    12:37 PM

# Simulator Security

- Simulator Data Security
  - Host computers are isolated from network access
  - Isolate data transmitted to off-site facilities to support E-Plan drills (software)
  - Isolate phone, PA, and radio communications (hardware)
  - Select stand alone data collection server used for SBT data collection (software)
  - Clear previous history files from host computer (software)



# Simulator Security

- Master Clear (post exam)
  - DCS History
  - Triconex history
  - Backtrack / Instructor Station Files
  - RMS History
  - Recorder History
  - PPC History

# Simulator Security

- Operating Experience
  - Support of an off-site facility Self-Assessment determined that some Yokagowa recorders retain history