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Emergency Department *SMART* Radiation Monitoring

The Issue

In today's world, protection of our hospital's vital areas from dangerous terrorist-based radioactive contamination is essential!

- **Dilemma:** Hospitals are in jeopardy of having vital areas (ED, OR, Radiology) compromised during a large-scale incident due to UNDETECTED spread of radiation
- **Technical Challenge:** Swiftly & accurately locate and discriminate threat-based radiation from 'normal' hospital radiation BEFORE it spreads throughout hospital
- **Value Proposition:** Investment in early warning system is significantly less than the cost of wide-spread decontamination and facility reclamation



\$50-\$150k initial investment far less than \$\$\$ required to 'return to normal'

Hospital Asset Protection System...How it's done

- ~1-10 strategically positioned radiation detectors; SMART Detectors; eliminate 'everyday' "Common" radiation alarms
- System distinguishes between medical vs. threat-based sources
- Integration through ViewPoint™ Enterprise Software System
- Cameras provide image for specific alarm; rapid identification
- Provide swift lockdown of affected areas
- System is transparent to medical staff; no interruption or compromise of primary care



Some Assumptions



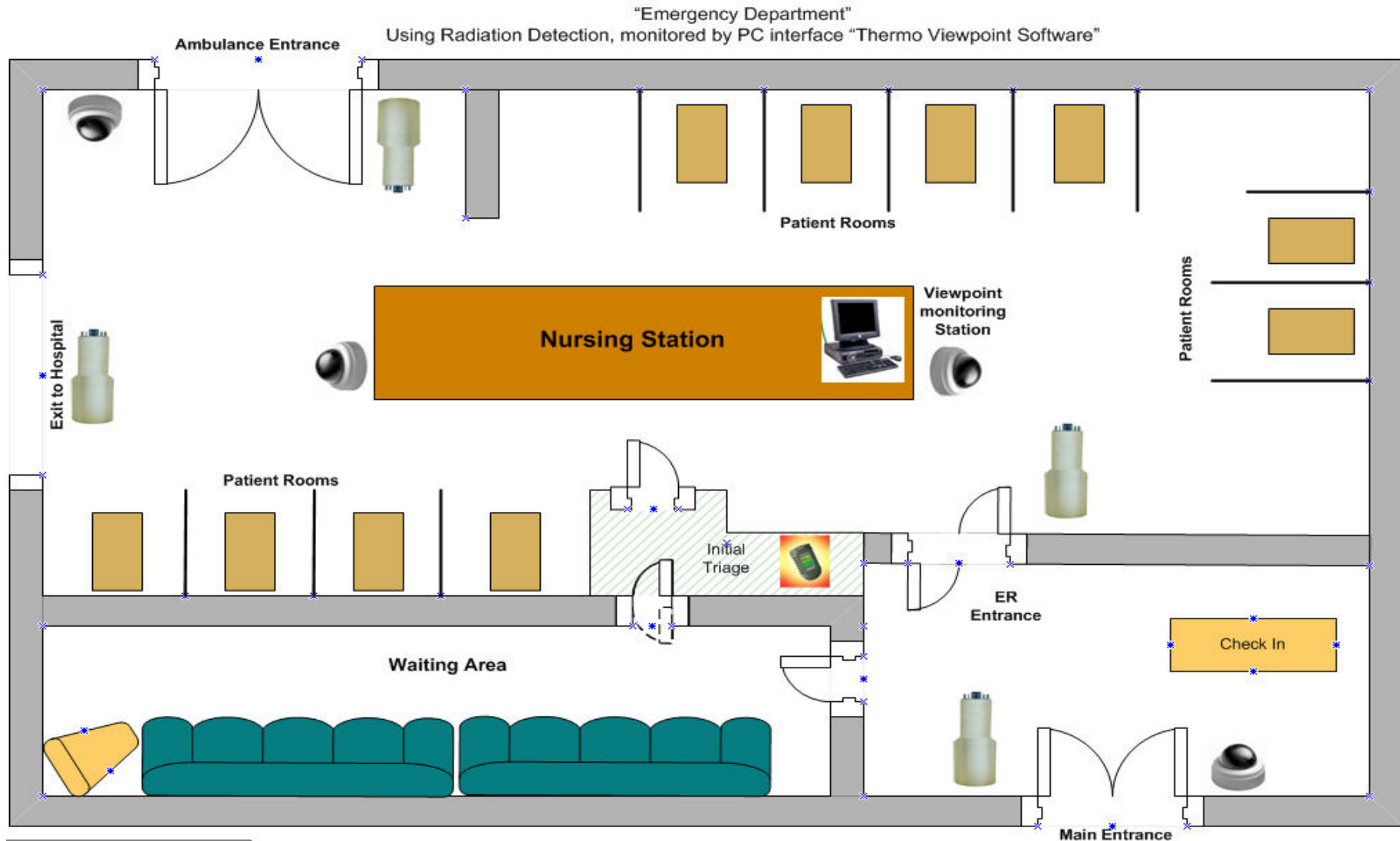
- ✓ Emergency Department (ED) will be first to receive radioactively contaminated individuals
- ✓ Patients will enter via ED ambulatory or non-ambulatory entrance; small % via *other* entrances and end up in ED
- ✓ Data shows that ED's have **10-15 alarms/hr** due to MEDICAL sources --need to alarm only on NON-MEDICAL or THREAT Sources

More assumptions

- ✓ A critically injured, 'contaminated' patient can cross-contaminate a hospital in minutes
- ✓ During large scale event, multiple area hospitals will be affected (taking contaminated patients)
- ✓ During event, hospital staff will require validation that 'working environment' is safe; determine whether to keep sending patients to a facility (or divert)



A Typical Hospital Emergency Department (ED)



Rapid Return on Investment: ViewPoint™ in Asset Protection is same system for Everyday and Extraordinary Situations!



**Nuclear
Medicine**
(Fluoroscopy, PET,
CT, etc.)



Oncology



**Emergency
Support**

← **ViewPoint™**



**Facilities
Protection**