New Directions in Industrial Base Critical Infrastructure Protection: Reconciling Protection and Resiliency

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Nuclear Plant Security

NRC REQUIREMENTS AND INDUSTRY PROGRAMS
ARE PREDICATED ON THE NEED TO PROTECT THE
PUBLIC FROM THE POSSIBILITY OF EXPOSURE TO
RADIOACTIVE RELEASE CAUSED BY ACTS OF
SABOTAGE BY THE DESIGN BASIS THREAT



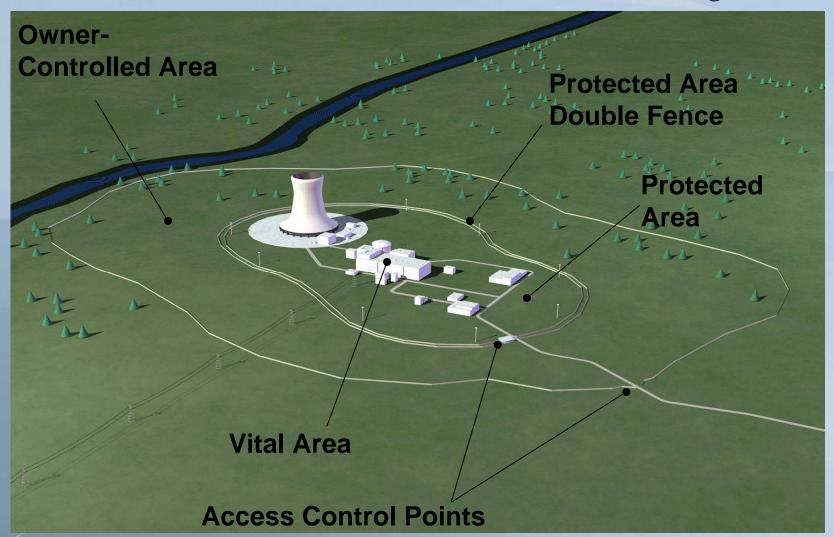
Design Basis Threat

- Several well trained dedicated adversaries
- Determined violent assault
- Hand held automatic weapons with silencers and with long range accuracy

- Insider assistance
- Incapacitating agents
- Explosives
- Vehicle bombs
- Vehicles as means of entry
- Cyber attacks



Concentric Circles of Security





Multiple Layers of Protection in a Robust Physical Structure



Containment Vessel

1.5-inch thick steel

Shield Building Wall

3 foot thick reinforced concrete

Dry Well Wall

5 foot thick reinforced concrete

Bio Shield

4 foot thick leaded concrete with

1.5-inch thick steel lining inside and out

Reactor Vessel

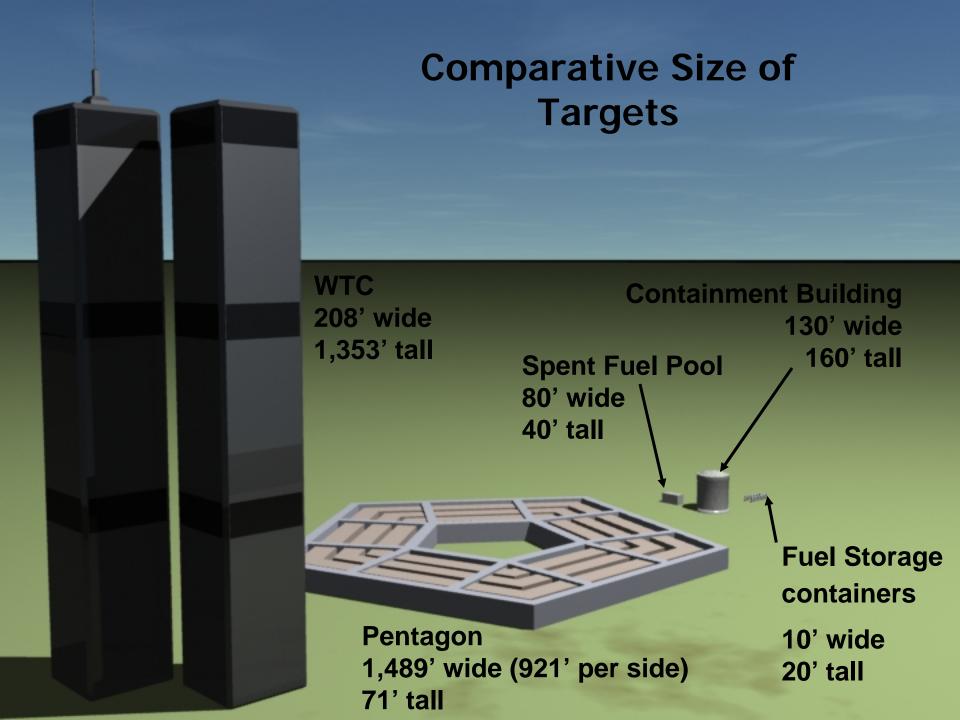
4 to 8 inches thick steel

Reactor Fuel

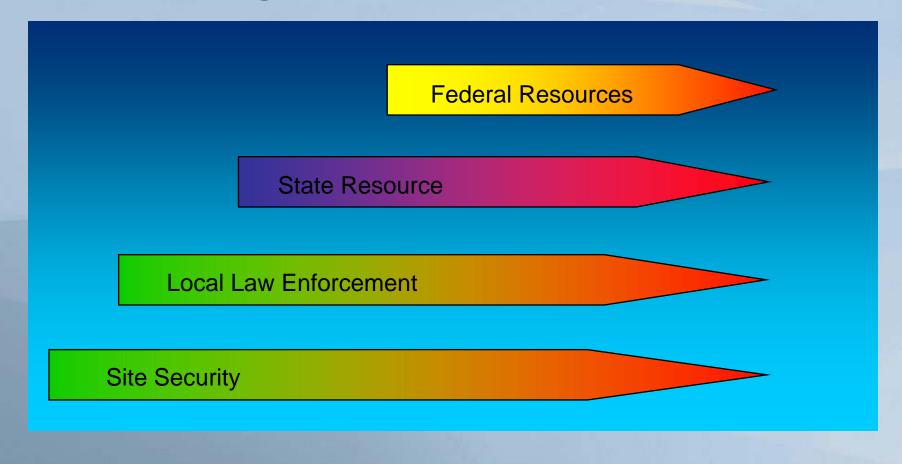
Weir Wall

1.5 foot thick concrete





Integrated Threat Response





Preparedness

- A 60% increase in number of officers
- Expenditures in excess of \$1.2 billion
- Additional protection against vehicle and waterborne bombs
- Improved operational readiness



Preparedness

- Added and upgraded armament
- Revised Security and Emergency Plans
- Enhanced officer training
- Coordination with state and local officials
- Enhanced mitigation strategies for catastrophic events



Nuclear Sector Coordinating Council

- Represents nuclear sector to federal government agencies
- Corresponding Government Council DHS, NRC, DOE,FBI
- Establishes "Seat at the Table" for Security and Homeland Defense Issues



Initiatives

- Risk Analysis and Management for Critical Asset Protection
- Comprehensive Reviews
- Post attack communications
- Routine threat briefings
- Pandemic Influenza preparation



Conclusions

- Nuclear power plants are the most secure industrial facilities in the National infrastructure
- Industry has been extremely responsive and has significantly improved its ability to prepare for a significant terrorist attack
- Partnering through DHS is the way to integrate and leverage onsite and offsite resources in a meaningful and cooperative way

