



Security Overview

September 19, 2006



AP1000 Security Overview

- AP600 & AP1000 (pre-9/11)
 - Protected Area (PA) essentially contiguous with Vital Area (VA)
 - Minimized VA access points
 - Relied on robust building structure
 - 2 detonations required to breach
 - Entry points alarmed and provided with delay barriers
 - Utilized internal defensive strategy

AP1000 Security Overview

- AP1000 (current)
 - Extends Protected Area (PA) into Owner-Controlled Area (OCA)
 - Extends Vital Area (VA) “footprint”
 - Minimizes VA access points
 - Credits robust building structure
 - 2 detonations to breach
 - Entry points alarmed and blast-hardened
 - Utilizes combination of internal and external defensive strategy

AP1000 Security Overview

- Evolution

- Southern Nuclear contracted to Westinghouse to provide security recommendations
- Proposed enhancements provided to Westinghouse and NUStart SRC
- Tabletop reviews of proposed enhancements conducted
 - Who: NuStart Security Review Committee (SRC)
 - When: March 2006 and June 2006
 - Intent: Subjectively assess level of protection

AP1000 Security Overview (cont.)

- Enhancements will reduce the dependence on operational programs
- Enhancements have considered the lessons learned from B5b
- Enhancements have built on the passive design of the plant
- Draft report was reviewed in it's final form by SRC on 9/14

AP1000 Security Overview

- Conclusion
 - Engineered safety features in conjunction with robust facility hardening and external detection, delay, and engagement strategy provide a high level of assurance