



# Security Overview

September 19, 2006



# AP1000 Security Overview

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- 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

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- 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

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- 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.)

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- 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

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