

NRC Cost Estimates

Regulatory Analysis Developed to Support the Fuel Cycle Cyber Security Rulemaking

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Agenda

- **Compare Implementation Costs
(initial figures)**
- **VDAs and Controls**
- **Hardware Considerations**
- **Path Forward**

Compare Implementation Costs (initial figures)

- **Cyber Security Team and Plan**

CST staff - Security Mgr.; Cyber, Facility, and Safety Expert;
Licensing/ADM

400 hrs ≈ \$63,000

700 hrs ≈ \$116,000

- **Supporting technical information (analysis)**

960 hrs ≈ \$59,000

2000 hrs ≈ \$244,000

- **Address controls and create procedures**

1000 hrs ≈ \$61,000

2600 hrs ≈ \$300,000

- **Training and hardware modifications**

Training ≈ \$11,000

Training ≈ \$60,000

Hardware ≈ \$131,000

Hardware ≈ \$900,000

*NRC; Industry

VDAs and Controls

Lower # of vital digital assets due to ...

- Accredited Systems – exclude Cat I digital assets protected by equivalent requirements
- Alternate means – equivalent substitute (no alternate controls)

Reducing the burden of controls

- Boundary – combine components necessary to perform the function
- Grouping - similar VDAs addressed by the same controls
- Common or Inherited Controls – Measures used to protect more than one VDA

Hardware Considerations

- Cost per VDA – **\$15,000** versus **\$50,000**
– credit existing programs
- Number of VDAs – approximately 12 per facility
- New alternate means – costs not included

Path Forward

- Inform cost estimates based on stake holder feedback
- Place regulatory analysis into *Federal Register* proposed rule package
- Submit proposed rule package to the Commission, March 2017