

The background of the slide features a grayscale image of several classical columns, likely from a government building, extending from the left side towards the center. The columns are fluted and have papyrus capitals. The lighting is soft, creating a sense of depth and architectural grandeur.

# **Federal Information Security Management Act Implementation: An Auditor's Perspective**

**National Institute of Standards  
and Technology**

Information Security Seminar  
February 1, 2007

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# Presentation Agenda

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- Background
- An Evaluation Approach

# Background

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- The Federal Information Security Management Act of 2002 (FISMA) requires an annual independent evaluation of each agency's information security program and practices
  - Assessing compliance with FISMA and related policies, procedures, standards, and guidelines
  - Testing the effectiveness of policies, procedures, and practices for a subset of agency systems
- Six annual evaluations completed

# Background

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“We shall not fail or falter, we shall not weaken or tire. Neither the sudden shock of battle nor the long-drawn trials of vigilance and exertion will wear us down. Give us the tools and we will finish the job.”

*Sir Winston Churchill, 1941*

# Seven Sins

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1. Understate the Risk
2. Ignore the governance and cultural change component of strengthening security controls
3. Defer implementing enterprise architecture management principles
4. Downplay security in the system development life cycle

# Seven Sins

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5. Short-change security in the information technology capital planning and investment control process
6. Misapplying cost benefit analysis
7. View FISMA as a paper exercise
8. Blame the auditors



# **An Evaluation Approach**

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# Evaluation Approach

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- Program Level Assessment
  - NIST SP 800-100, Information Security Handbook, A Guide for Managers
- System Level Assessments
  - FIPS PUB 200, Minimum Security Requirements for Federal Information and Information Systems
  - NIST SP 800-53, Recommended Security Controls for Federal Information Systems
- OMB Guidance
- Inspector General Framework issued in September 2006



# Overall Information Security Control Assessment

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<b>Assessment of the Information Security Controls</b>		
<b>Control Class</b>	<b>Control Assessment</b>	
	<b>Effectiveness</b>	<b>Attention Needed</b>
<b>Program Controls</b>		
<b>Management Controls</b>		
<b>Operational Controls</b>		
<b>Technical Controls</b>		
<b>Overall Control Assessment</b>		

# Program Control Assessment

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<b>Assessment Results</b>			
<b>Control</b>		<b>Control Assessment</b>	
<b>Class</b>	<b>Family</b>	<b>Effectiveness</b>	<b>Attention Needed</b>
<b>Program Controls</b>	Security Governance		
	Enterprise Architecture		
	Capital Planning and Investment Control		
	Critical Infrastructure Protection		

# System Control Assessment

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<b>Assessment Results</b>			
<b>Control</b>		<b>Control Assessment</b>	
<b>Class</b>	<b>Family</b>	<b>Effectiveness</b>	<b>Attention Needed</b>
<b>Management Controls</b>	Risk Assessment		
	Security Planning		
	System and Services Acquisition		
	Certification, Accreditation, and Security Assessments		

# System Control Assessment

<b>Assessment Results</b>			
<b>Control</b>		<b>Control Assessment</b>	
<b>Class</b>	<b>Family</b>	<b>Effectiveness</b>	<b>Attention Needed</b>
<b>Operational Controls</b>	<b>Personnel Security</b>		
	<b>Physical &amp; Environmental Protection</b>		
	<b>Contingency Planning</b>		
	<b>Configuration Management</b>		
	<b>Maintenance</b>		
	<b>System and Information Integrity</b>		
	<b>Media Protection</b>		
	<b>Incident Response</b>		
	<b>Awareness and Training</b>		

# System Control Assessment

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<b>Assessment Results</b>			
<b>Control</b>		<b>Control Assessment</b>	
<b>Class</b>	<b>Family</b>	<b>Effectiveness</b>	<b>Attention Needed</b>
<b>Technical Controls</b>	<b>Identification and Authentication</b>		
	<b>Access Control</b>		
	<b>Audit and Accountability</b>		
	<b>System &amp; Communications Protection</b>		

# Conclusion

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“Tools to do the job”

- Strategy
- Teamwork
- Communication