

September 2004

RECORDS MANAGEMENT

Planning for the Electronic Records Archives Has Improved





Highlights of GAO-04-927, a report to congressional committees

RECORDS MANAGEMENT

Planning for the Electronic Records Archives Has Improved

Why GAO Did This Study

Since 2001, the National Archives and Records Administration (NARA) has been working to develop the policies and plans to build the Electronic Records Archives (ERA), a major information system that is intended to preserve and provide access to massive volumes of all types and formats of electronic records. Senate Report 108-146 directed GAO to provide a progress report on NARA's development of the ERA system. Specifically, GAO's objective was to determine the agency's progress in implementing recommendations from previous assessments.

What GAO Recommends

To reduce the risks associated with NARA's efforts to acquire ERA, GAO recommends that the Archivist direct the ERA Program Director to design and implement a process to ensure that recommendations from contractor reviews are addressed and incorporated into program policies and plans. In commenting on a draft of this report, the Archivist of the United States generally agreed with the overall findings and recommendation, and provided an update on NARA's actions to implement the recommendations in this and prior GAO reports.

What GAO Found

NARA has made progress towards addressing GAO's prior recommendations: four of the eight recommendations have been fully addressed, and NARA is making progress in addressing the three recommendations on staffing, enterprise architecture, and information security (see table).

NARA is making less progress in addressing the recommendation to revise acquisition policies and plans to meet relevant industry standards. None of the eight key acquisition policies and plans fully complies with the standards selected by the agency. A contributing cause has been that although contractor staff assessed these policies and plans against standards, NARA had not established a process to ensure that the identified weaknesses were addressed and incorporated into subsequent versions. Making program policies and plans compliant before contract award is important to ensure that the agency has the information it needs to manage the acquisition and that the contractors have sufficient information on which to base the design of the system.

| Summary Status of NARA's Progress in Addressing GAO Recommendations | | |
|---------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Prior recommendation | Status | Progress |
| 1. Work breakdown structure | Addressed | Completed a comprehensive work breakdown structure. |
| 2. Dependency among predecessor and successor tasks | Addressed | Defined dependencies among predecessor and successor tasks. |
| 3. Use of earned value management | Addressed | Implemented earned value management for the program. |
| 4. IT investment management | Addressed | Implemented an IT investment management process. |
| Acquisition program policies and plans | Not addressed | None of the policies and plans were fully IEEE compliant. |
| 6. Staffing | Partially addressed | Hired 25 of 27 positions; however, two key positions—security officer and quality assurance specialist—remain unfilled. |
| 7. Enterprise architecture | Partially addressed | While the enterprise architecture has been strengthened, several elements are incomplete, including the target architecture. |
| 8. Information security | Partially addressed | While improved, weaknesses remain in i |

Source: GAO, based on NARA data.

www.gao.gov/cgi-bin/getrpt?GAO-04-927.

To view the full product, including the scope and methodology, click on the link above. For more information, contact Linda D. Koontz at (202) 512-6240 or Koontzl@gao.gov.

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Abbreviations

| ASC | American Systems Corporation |
|------|----------------------------------------------|
| ERA | Electronic Records Archives |
| ICE | Integrated Computer Engineering, Inc. |
| IT | information technology |
| NARA | National Archives and Records Administration |

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United States Government Accountability Office Washington, D.C. 20548

September 23, 2004

The Honorable Richard C. Shelby Chairman The Honorable Patty Murray Ranking Minority Member Subcommittee on Transportation, Treasury and General Government Committee on Appropriations United States Senate

The Honorable Ernest J. Istook, Jr. Chairman The Honorable John W. Olver Ranking Minority Member Subcommittee on Transportation, Treasury and Independent Agencies Committee on Appropriations House of Representatives

The National Archives and Records Administration (NARA) is responsible for the oversight of government records management and archiving, which increasingly involves dealing with documents that are created and stored electronically. Since 2001, the agency has been working to develop the Electronic Records Archives (ERA) system. This major information system is intended to preserve and provide access to massive volumes of all types and formats of electronic records. NARA plans to develop the system in five increments, with the first increment expected to be completed in 2007 and the fifth in 2011.

We have issued two prior reports¹ assessing NARA's acquisition of the ERA system. Our assessments identified several weaknesses in the acquisition process and made eight recommendations to the agency that, if addressed, would reduce the risks in acquiring the ERA system. These recommendations were to

¹GAO, Information Management: Challenges in Managing and Preserving Electronic Records, GAO-02-586 (Washington, D.C.: June 17, 2002) and Records Management, National Archives and Records Administration's Acquisition of Major System Faces Risks, GAO-03-880 (Washington, D.C.: Aug. 22, 2003).

- 1. develop a schedule that is based on a comprehensive work breakdown structure (including associated costs and other resources),
- 2. establish schedule dependencies among successor and predecessor tasks,
- 3. use earned value management to capture and monitor progress for the entire acquisition,
- 4. revise acquisition policies and plans to conform to Institute of Electrical and Electronics Engineers, Inc. standards,
- 5. fill vacant key program positions,
- 6. develop an enterprise architecture,
- 7. improve information security, and
- 8. implement an IT investment management process.

Senate Report 108-146 directed GAO to provide a progress report on NARA's development of the ERA system. Our objective was to determine the agency's progress in implementing our prior recommendations. To achieve this objective, we assessed and reviewed related plans and schedules to determine the level of progress since our last report and we interviewed key NARA officials and contractor staff. We selected eight key policies and plans for review; we assessed seven of these in our 2003 review. We added an eighth-the Program Management Plan-that had been completed since the 2003 review. We reviewed NARA's progress in filling all government and contractor positions and conducted interviews of senior NARA officials to determine the status of the agency's efforts to establish a capability in IT investment management, develop an enterprise architecture, and strengthen the agency's information security program. We also reviewed the contractor's verification and validation reports associated with the eight policies and plans. We performed our work from February 2004 to May 2004 at NARA's College Park, Maryland, location in accordance with generally accepted government auditing standards.

In June 2004 we provided your staff with a briefing on the results of our study, which included procurement-sensitive information. The slides from that briefing—with procurement-sensitive information removed—are included as appendix I. The purpose of this report is to provide the

| | published briefing slides to you and to officially transmit our recommendation to the Archivist of the United States. |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | In summary, our briefing made the following points: |
| | NARA has made progress toward addressing our prior recommendations; four of the eight recommendations have been fully addressed. Specifically, the ERA schedule is now based on a comprehensive work breakdown structure, dependencies have been established among predecessor and successor tasks, earned value management is being used to capture and monitor progress for the entire acquisition, and an IT investment management process has been implemented. In addition, NARA is making progress in addressing the three recommendations on staffing, enterprise architecture, and information security. |
| | NARA is making less progress in addressing the recommendation to revise acquisition policies and plans to meet relevant industry standards. Such policies and plans are essential for managing the acquisition and providing critical guidance to the contractors who will be designing the system. However, none of the eight key acquisition policies and plans fully complies with the standards. A contributing cause has been that, although contractor staff performed verification and validation reviews to assess these polices and plans against standards, NARA had not established a process to ensure that the weaknesses identified in these reviews were addressed and incorporated into the subsequent versions. Making acquisition policies and plans compliant before contract award is important to ensure that the agency has the information it needs to manage the acquisition and the contractors have adequate information on which to base the design of the system. |
| Recommendation for Executive Action | To reduce the risks associated with NARA's efforts to acquire ERA, we recommend that the Archivist direct the ERA program director to design and implement a process to ensure that recommendations in verification and validation reviews are addressed and incorporated into acquisition policies and plans. |
| Agency Comments and Our Evaluation | In providing written comments on a draft of this report (reprinted in app. II), the Archivist of the United States stated that NARA was pleased to note our recognition of the progress that it has made and that actions were well |

under way to address all outstanding recommendations. The Archivist also provided an update on the status of the four recommendations in the report that had not been fully addressed. In response to a technical comment concerning the status of the requirements document, we have amended the briefing slides to clarify that this document contains a complete set of high level system requirements.

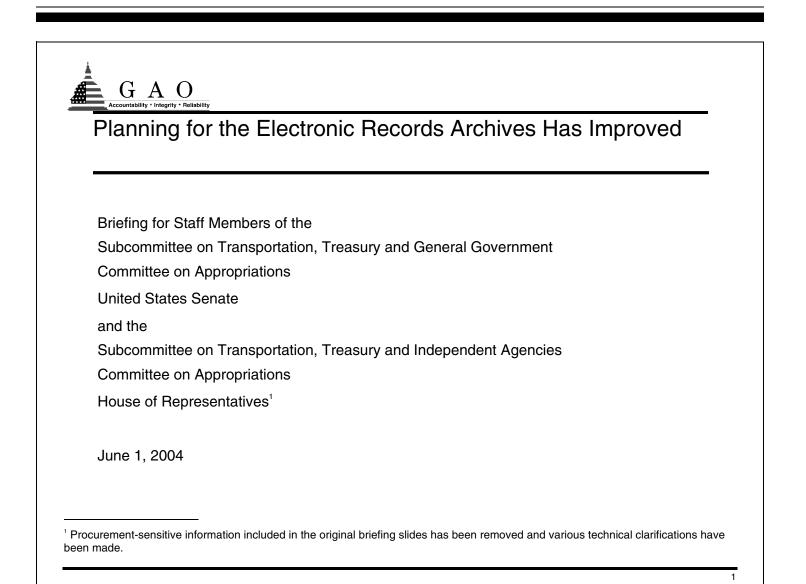
We are sending copies of this report to the Chairmen and Ranking Minority Members of the Subcommittee on Transportation, Treasury and General Government, Senate Appropriations Committee, and the Subcommittee on Transportation, Treasury and Independent Agencies, House Appropriations Committee. We are also sending copies to the Archivist of the United States. We will make copies available to others on request. In addition, the report will be available at no charge on the GAO Web site at http://www.gao.gov/.

If you or your staff have any questions concerning this report, please call me at 202-512-6240 or Mirko Dolak, Assistant Director, at (202) 512-6362. We can also be reached by e-mail at koontzl@gao.gov and dolakm@gao.gov, respectively. Key contributors to this report were Timothy Case, Nancy Glover, and Kush Malhotra.

Lenida & Koontz

Linda D. Koontz Director, Information Management Issues

Appendix I Briefing Slides



| G A O Accountability - Integrity - Reliability | Outline of Briefing |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Introduction | |
| Objective, Scope, and Methodology | |
| Results in Brief | |
| Background | |
| Implementation Status of GAO Recommendations | |
| Work Breakdown Structure Dependencies Among Successor and Predecessor Tasks Earned Value Management Information Technology Investment Management Acquisition Policies and Plans ERA Staffing Enterprise Architecture Information Security | |
| Conclusions | |
| Recommendation | |
| Agency Comments | |

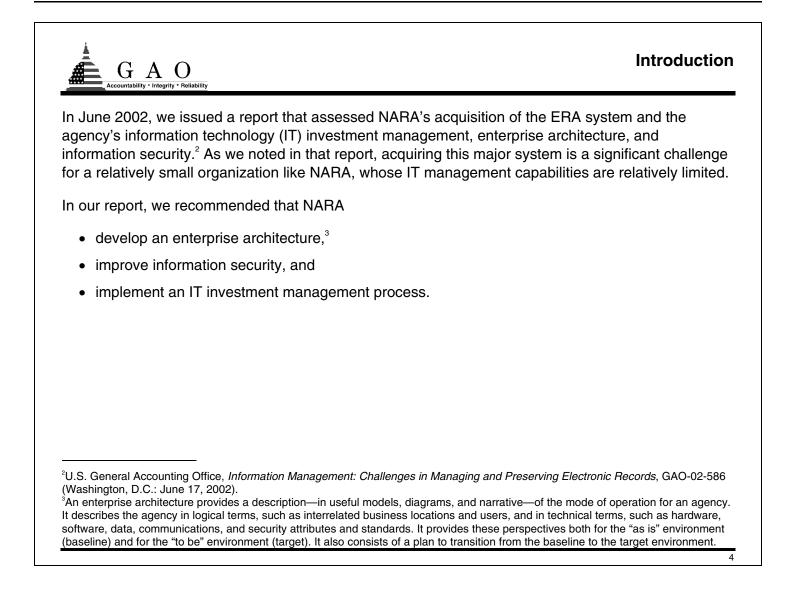


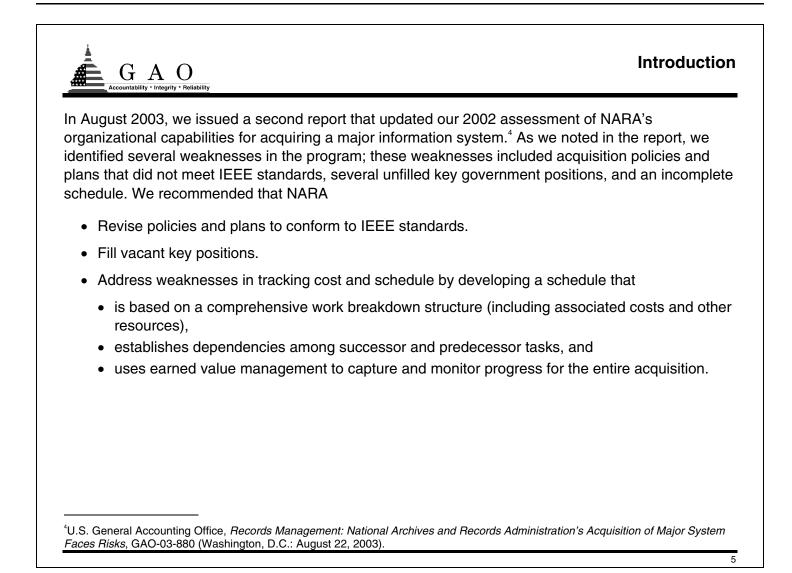
Introduction

The mission of the National Archives and Records Administration (NARA) is to ensure "ready access to essential evidence" for the public, the President, the Congress, and the Courts. NARA is responsible for oversight of records management and archiving, which increasingly involves dealing with documents that are electronically created and stored. Accordingly, it plans to acquire the Electronic Records Archives (ERA) system to address critical issues in the creation, management, and use of electronic records. NARA envisions it to be a major information system with the ability to authentically preserve and provide access to massive volumes of all types and formats of electronic records that are free from dependency on any specific type of hardware or software.

In 2001, the agency hired a contractor to develop the policies and plans to build the ERA system. NARA selected the standards of the Institute of Electrical and Electronics Engineers, Inc. (IEEE) to guide the overall acquisition of the system.

During the period of our assessment, NARA indicated that it expected to award two contracts for system design by May 28, 2004. In its comments on our draft briefing slides, NARA indicated that the process to select the design contractors has taken longer than expected; the contracts are now expected to be awarded by July 30, 2004. The agency plans to select one of these contractors to build the system in five increments, with the first increment scheduled to be completed in 2007 and the fifth, and final, increment scheduled to be completed in 2011.







Objective, Scope, and Methodology

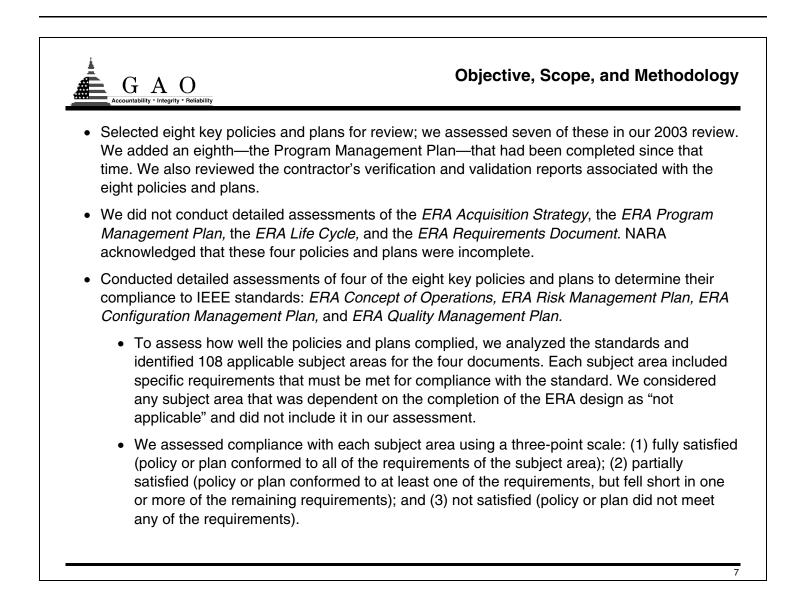
Objective

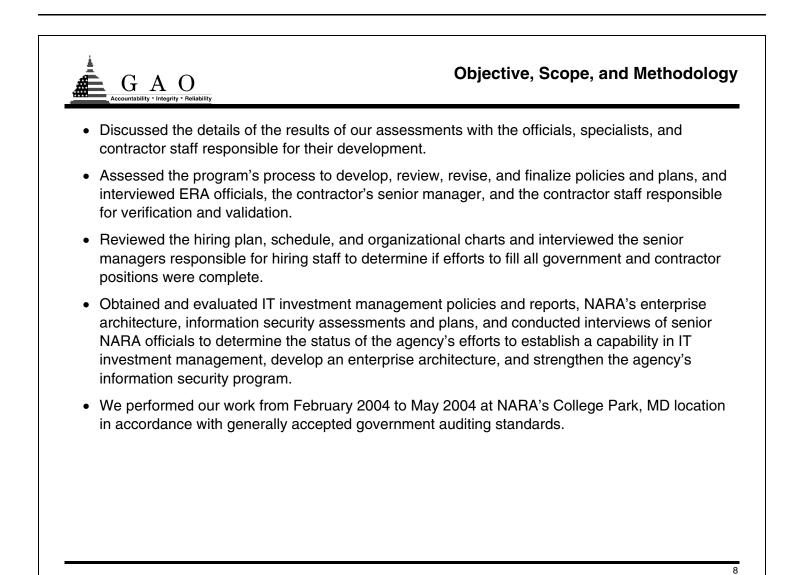
Senate Report 108-146 directed that GAO provide a progress report on NARA's development of the ERA system and that we report our findings by May 22, 2004. As agreed with staff of the Subcommittee on Transportation, Treasury and General Government, Senate Committee on Appropriations, and the Subcommittee on Transportation, Treasury and Independent Agencies, House Appropriations Committee, our objective is to determine the agency's progress in implementing recommendations from our previous assessments.

Scope and Methodology

To accomplish our objective, we

- Assessed the schedule's work breakdown structure to determine if tasks included associated costs and resources.
- Reviewed the schedule to determine if it identified dependencies among successor and predecessor tasks.
- Assessed the system's use of earned value management to monitor progress.
- Interviewed NARA information resource management and ERA officials and contractor staff to understand the scope and contents of agency IT management documents.





| Prior Recommendation 1. Work breakdown structure | Status addressed | Progress Completed a comprehensive work breakdown structure. |
|--------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 2. Dependency among predecessor and successor tasks | addressed | Defined dependencies among predecessor and successor tasks. |
| 3. Use of earned value management | addressed | Implemented earned value management for the acquisition. |
| 4. IT investment management | addressed | Implemented an IT investment management process. |
| 5. Acquisition policies and plans | not addressed | None of the policies and plans were fully IEEE compliant. |
| 6. Staffing | partially addressed | Hired 25 of 27 positions; however, two key positions—security officer and quality assurance specialist—remain unfilled. |
| 7. Enterprise architecture | partially addressed | While the enterprise architecture has been strengthened, several elements are incomplete, including the target architecture. |
| 8. Information security | partially addressed | While improved, weaknesses remain in information security. |
| C C | | addressed. In addition, NARA is making progress in ing, enterprise architecture, and information security |

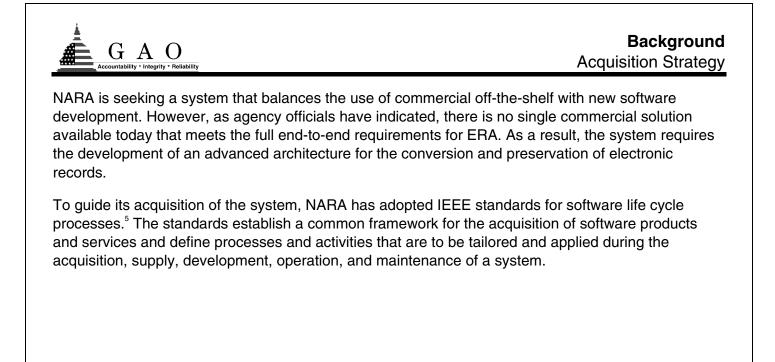


Results in Brief Status of Recommendations

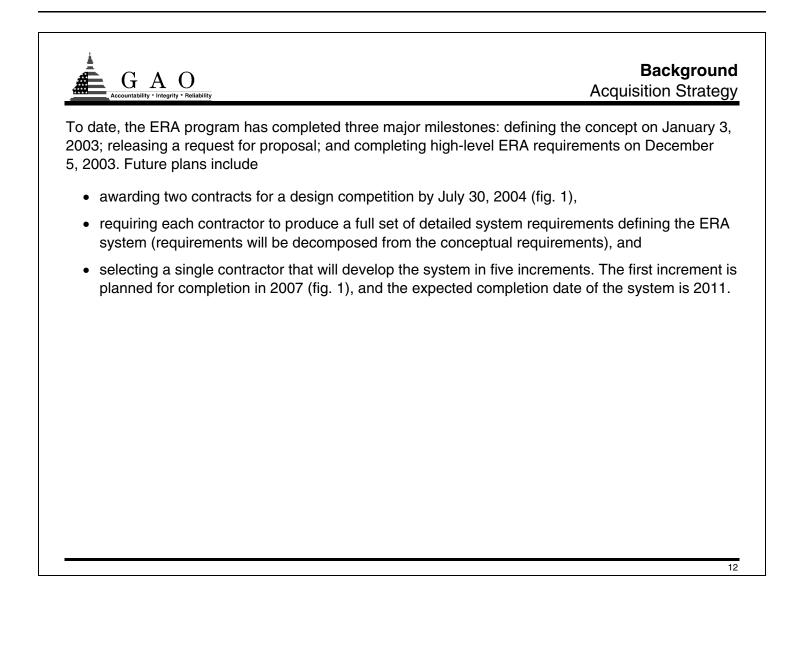
However, NARA has made less progress in addressing the recommendation to revise acquisition policies and plans to meet industry standards. Such policies and plans are essential for managing the acquisition and providing critical guidance to the contractors who will be designing the system. However, none of eight key acquisition policies and plans fully complies with the standards selected by the agency. A contributing cause is that, although contractor staff assessed these policies and plans against the requirements in the standard, NARA had not established a process to ensure that the weaknesses identified were incorporated into the final versions. Agency officials agreed with our assessment and stated that they would revise the policies and plans before contract award. Making acquisition policies and plans compliant before contract award is important to ensure that the agency has the information it needs to manage the acquisition and the contractors have adequate information on which to base the design of the system.

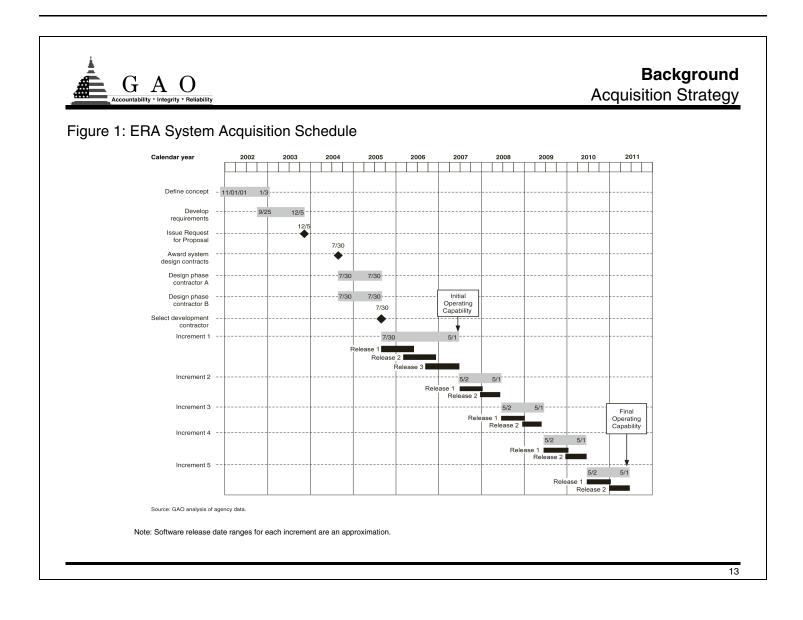
To reduce the risks associated with the ERA acquisition, we are recommending that the Archivist develop a process to ensure compliance with industry standards.

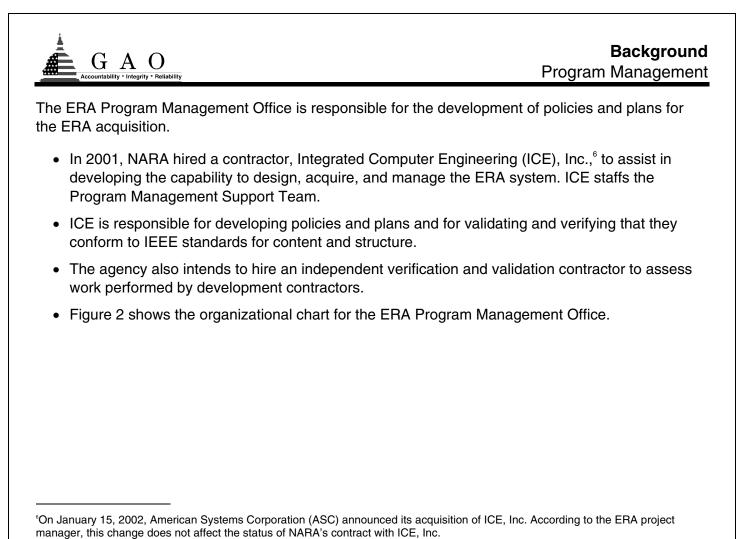
In commenting on a draft of these briefing slides, the Archivist generally agreed with our findings, conclusions, and recommendation.

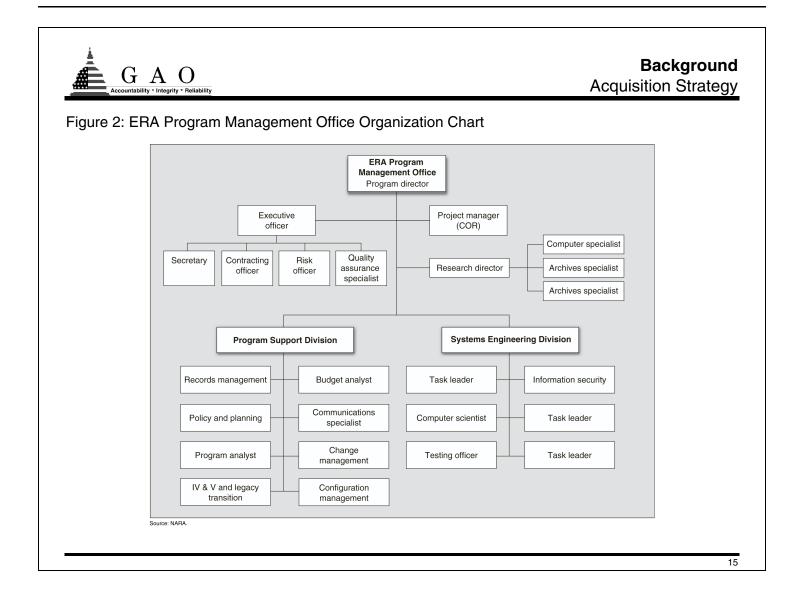


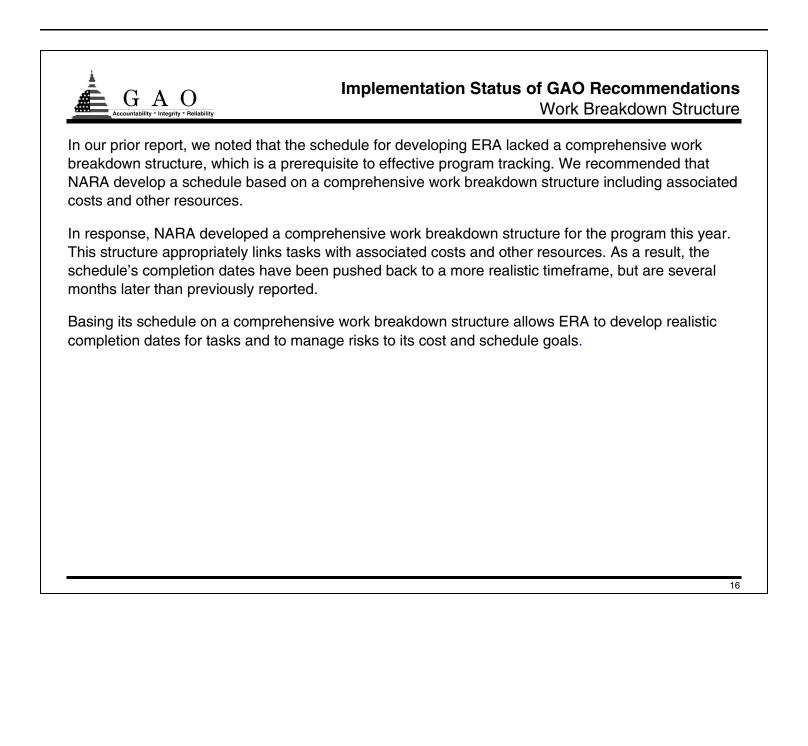
⁵The Institute of Electrical and Electronics Engineers, 12207.0 Standard for Information Technology—Software Life Cycle Processes; 12207.1 Standard for Information Technology—Software Life Cycle Processes—Life Cycle Data; and 12207.2 Standard for Information Technology—Software Life Cycle Processes—Implementation Considerations.



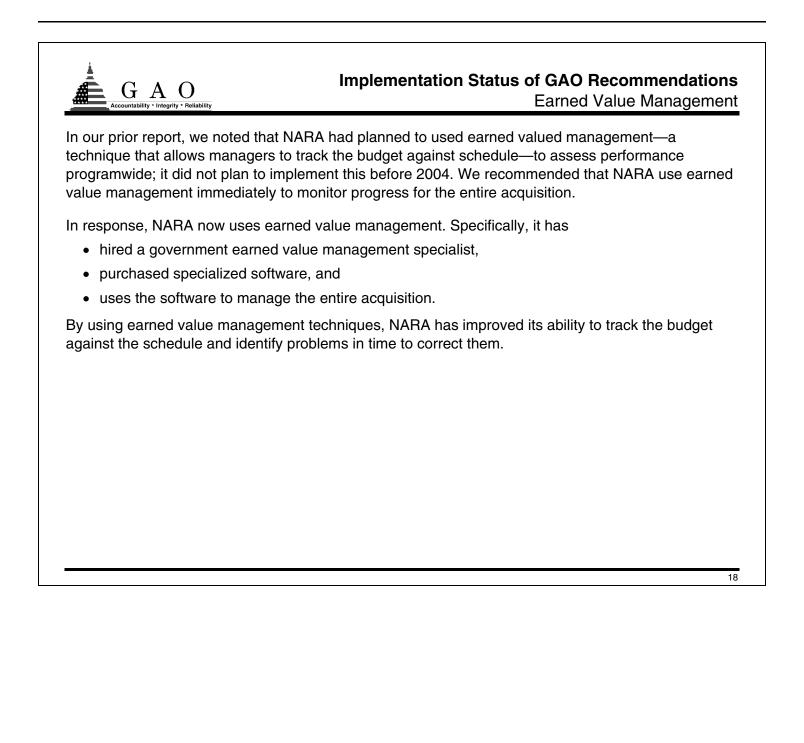


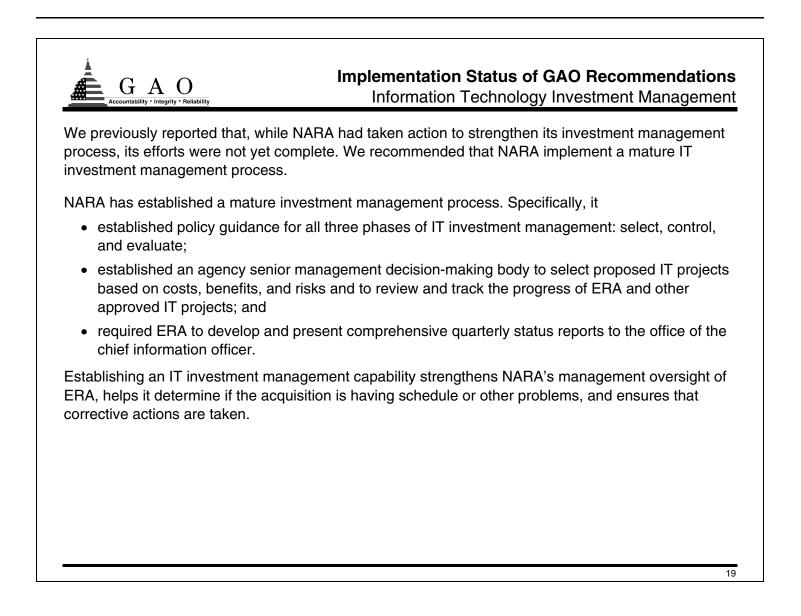


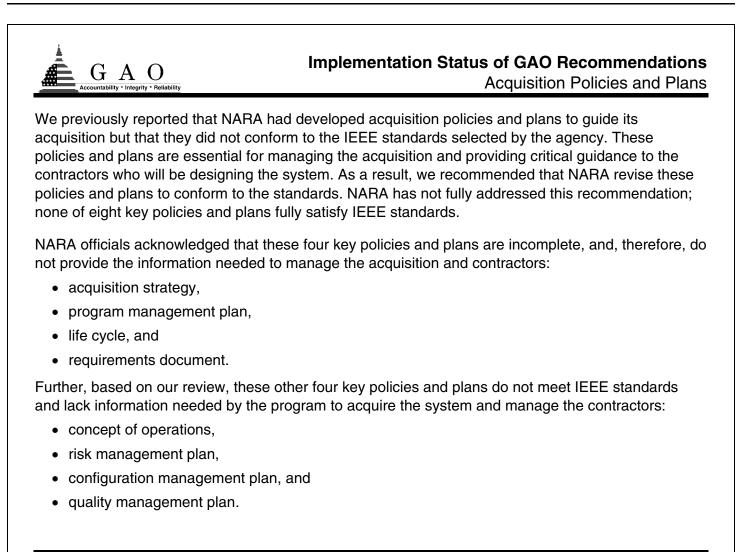


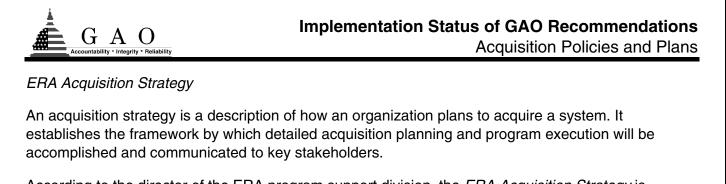


| G A O Accountability · Integrity · Reliability | Implementation Status of GAO Recommendations Dependencies Among Successor and Predecessor Tasks |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| | und that the schedule did not show dependencies between successor commended that NARA develop a program schedule establishing these |
| NARA subsequently revised the | he program's schedule to link successor and predecessor tasks. |
| | nong work activities allows ERA to develop a critical path for the proving the capability to manage its cost and schedule goals. |
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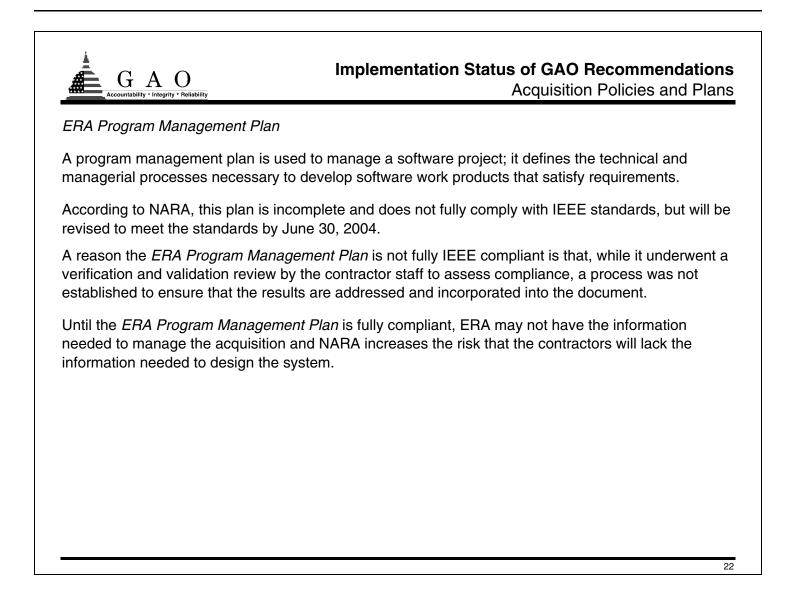




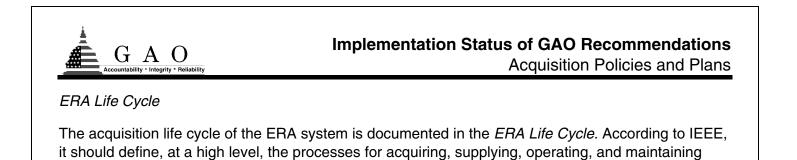
According to the director of the ERA program support division, the *ERA Acquisition Strategy* is incomplete and does not fully comply with IEEE standards, but will be revised to meet the standards by June 30, 2004.

A reason the *ERA Acquisition Strategy* is not fully IEEE compliant is that, while it underwent a verification and validation review by contractor staff to assess compliance, a process had not been established to ensure that the results are addressed and incorporated into the strategy.

Until the *ERA Acquisition Strategy* is fully compliant, ERA may not have the information needed to manage the acquisition and NARA increases the risk that the contractors will lack the information needed to design the system.



ERA products and services.



According to NARA, the *ERA Life Cycle* is incomplete and does not fully comply with IEEE standards, but will be revised to meet the standards by July 30, 2004.

A reason the *ERA Life Cycle* document is not fully IEEE compliant is that, while it underwent a verification and validation review by the contractor staff to assess compliance, a process had not been established to ensure that the results of the review are addressed and incorporated in the final version.

Until the *ERA Life Cycle* is fully compliant, ERA may not have the information needed to manage the acquisition and NARA increases the risk that the contractors will lack the information needed to design the system.



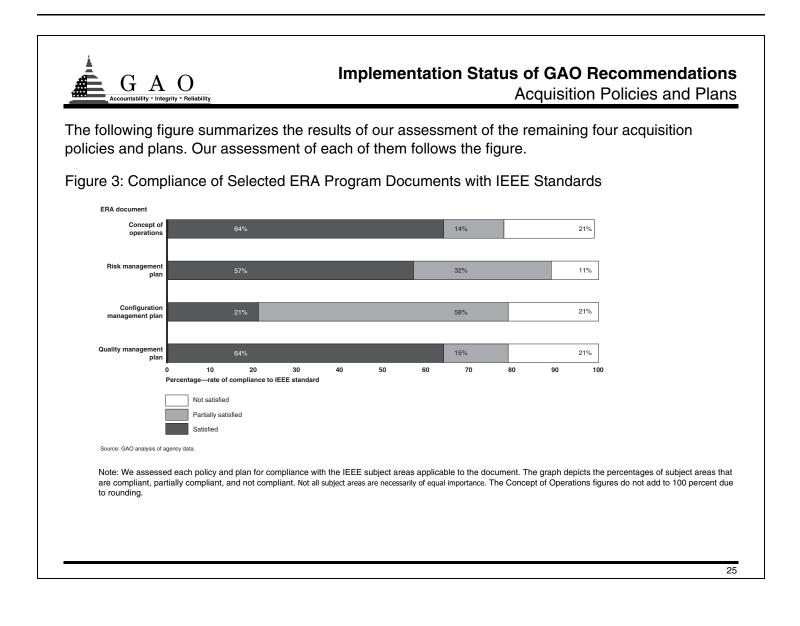
Requirements provide the blueprint that system developers and program managers use to design, develop, and acquire a system. One of the primary reasons software projects fail is because requirements are incomplete or incorrect. Incomplete or defective requirements result in inaccurate product descriptions and erroneous cost and schedule estimates.

According to NARA, this document is not complete and does not fully comply with IEEE standards.

While NARA originally intended to develop full system requirements for the ERA system in house, it has completed only high-level requirements. NARA has revised its acquisition approach so that ERA requirements will be used to guide the development of detailed system requirements specifications by contractors during a design phase (see fig. 1). NARA also intends to hire an independent verification and validation contractor to ensure the contractor's requirements for ERA are compliant with IEEE standards.⁷

According to NARA, ERA requirements will be completed 6 months after contract award and will be IEEE compliant.

⁷In providing written comments on the draft of the report transmitting this briefing, the Archivist of the United States indicated that the final ERA Requirements Document released with the ERA Request for Proposal outlines a complete set of high-level system requirements. The Archivist noted that these high-level requirements will be used by the ERA development contractor to generate a detailed system requirements specification that will be delivered to the government 6 months after the contract award.





Implementation Status of GAO Recommendations Acquisition policies and plans

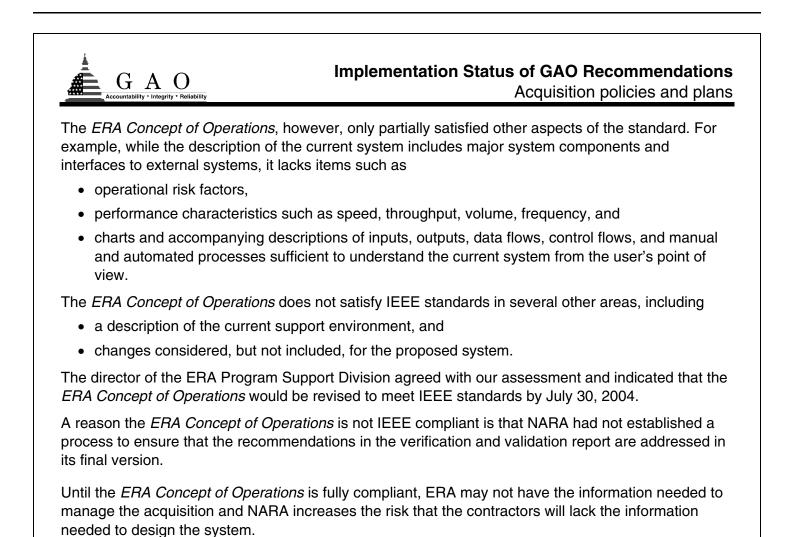
ERA Concept of Operations

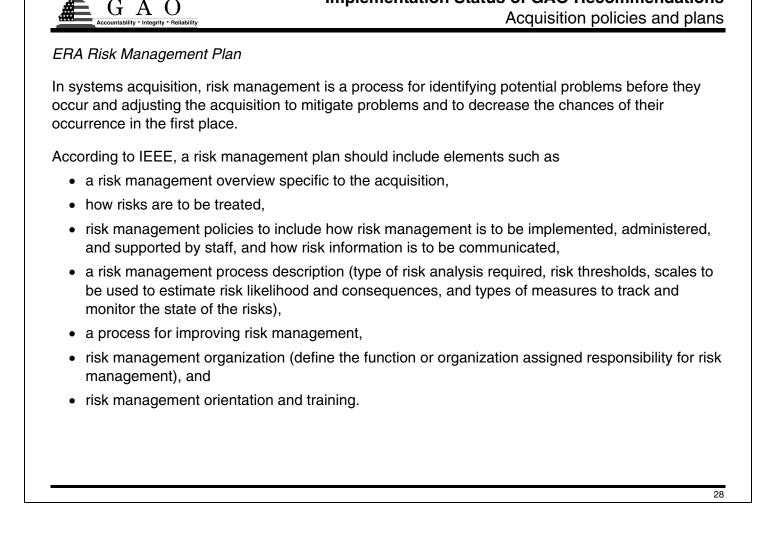
The *ERA Concept of Operations* describes the characteristics of a proposed system from the users' viewpoint. The IEEE standard for a concept of operations has 28 applicable elements, including a description of the current system and a justification for the proposed system. The description of the current system should include details on items such as major system components, operational risk factors, interfaces to external systems, operational policies and constraints, the current support environment, and performance characteristics such as speed, throughput, volume, and frequency. The standard also requires information on the proposed system including background, objectives, and scope; operational policies and constraints; and changes considered, but not included, for the proposed system. In addition, charts should be used to depict inputs, outputs, and data flows for both the current and proposed systems.

Overall, the *ERA Concept of Operations* satisfied 18 (64%), partially satisfied 4 (14%), and did not satisfy 6 (21%) of the 28 applicable subject areas in the IEEE standard.

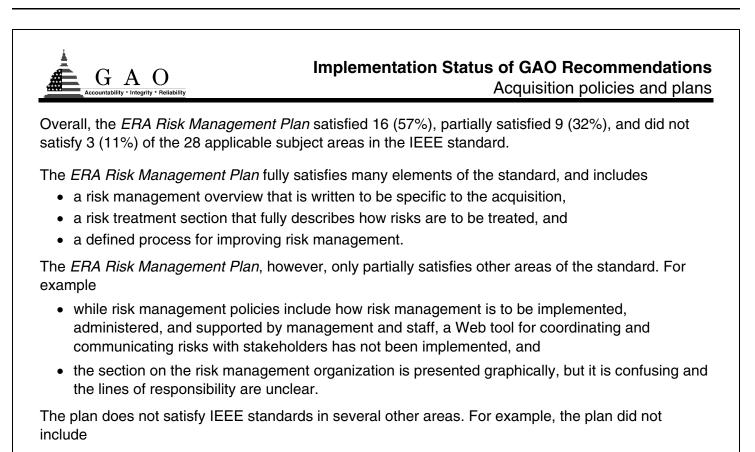
The document fully satisfied the standard in several areas, including information on the proposed system such as

- background, objectives, and scope,
- · operational policies and constraints, and
- a justification for its development.

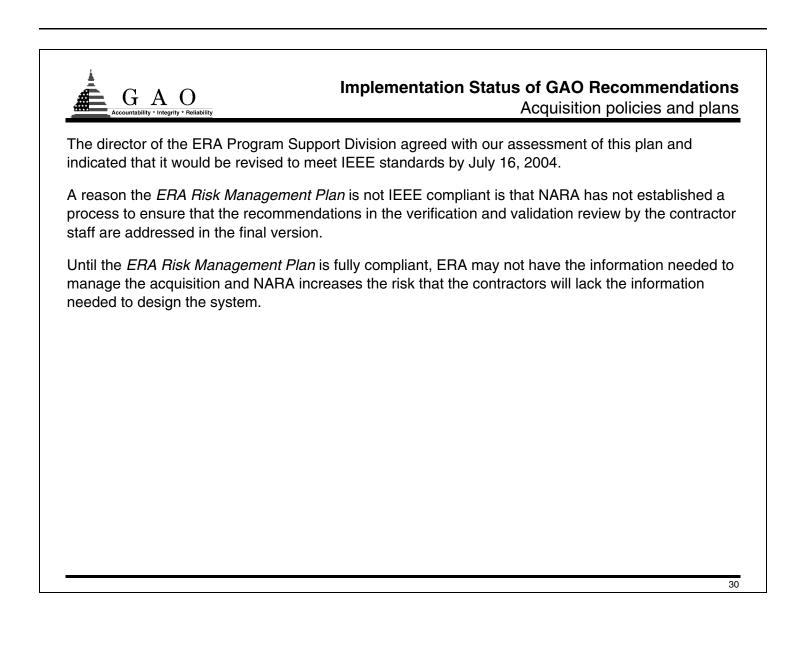


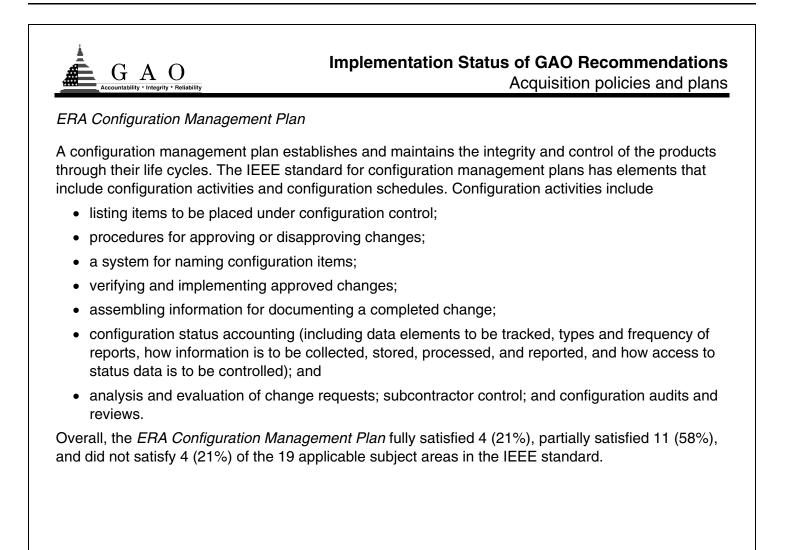


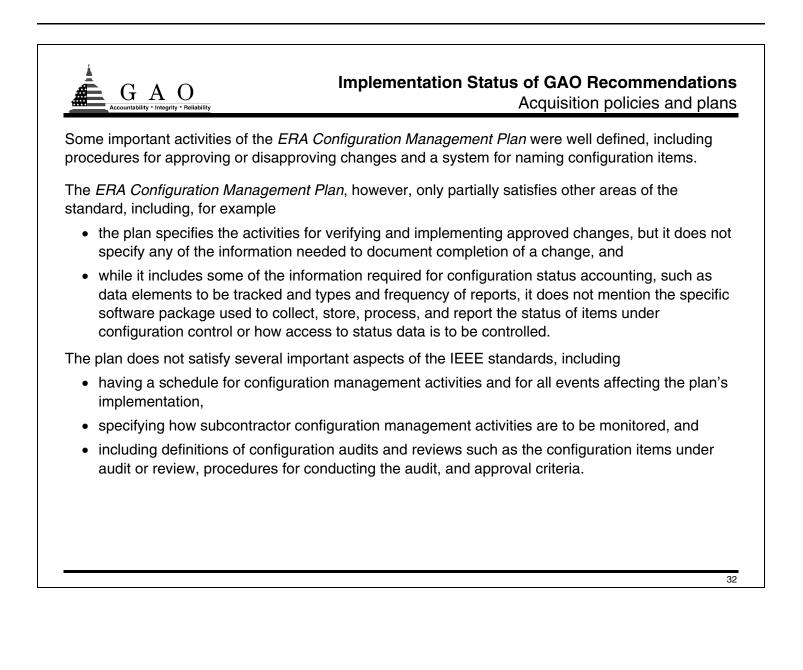
Implementation Status of GAO Recommendations

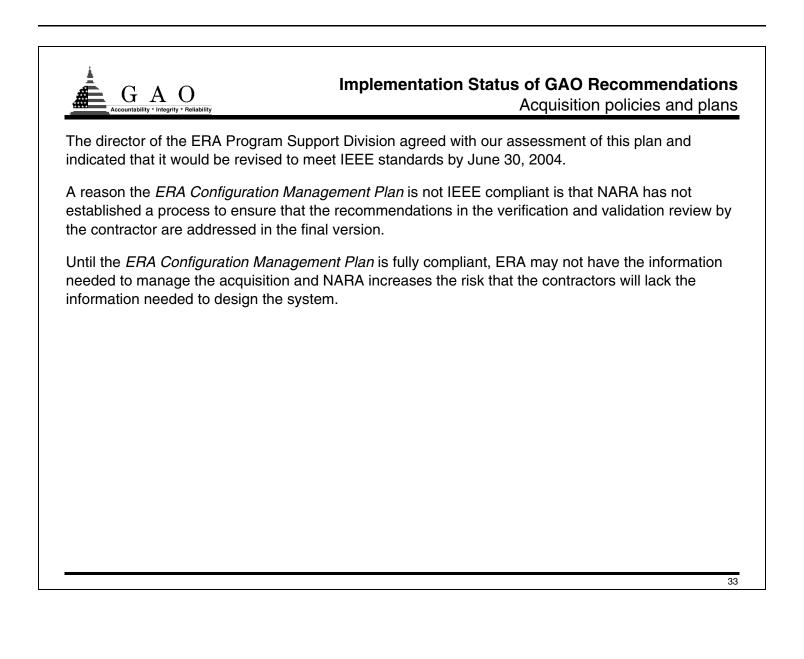


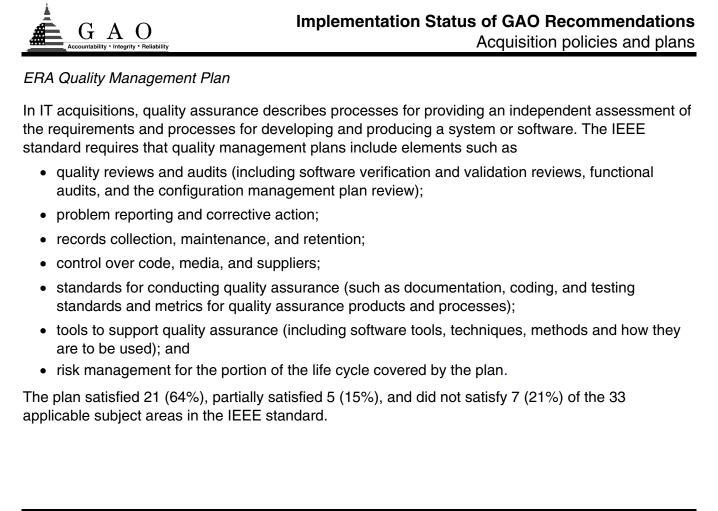
- risk thresholds (a metric used to classify risks), and
- risk management orientation and training information.

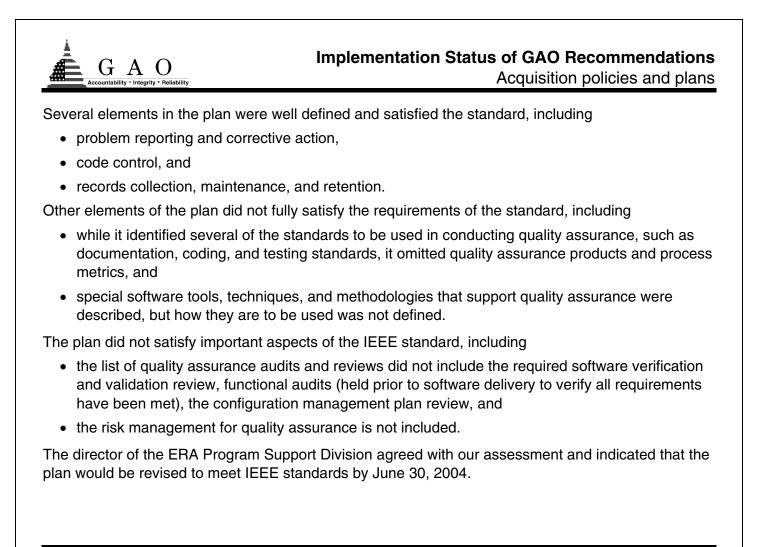


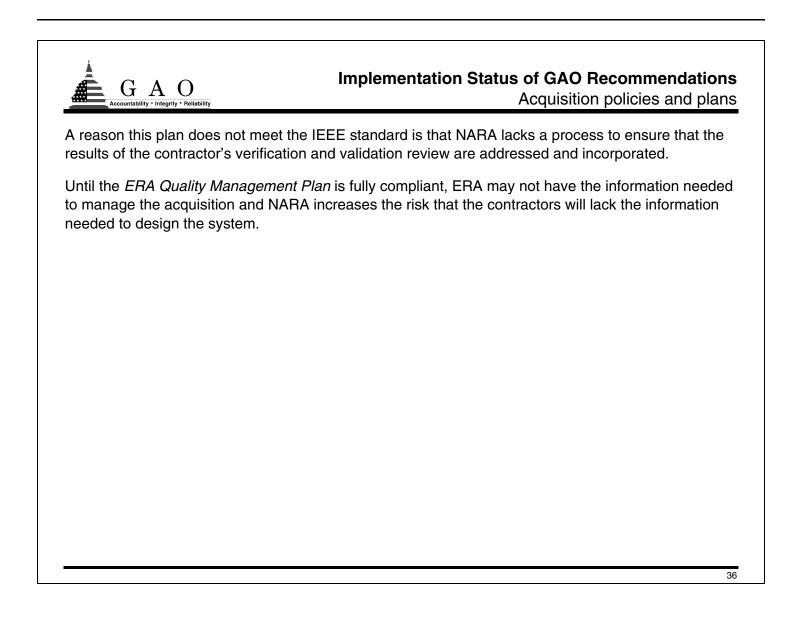


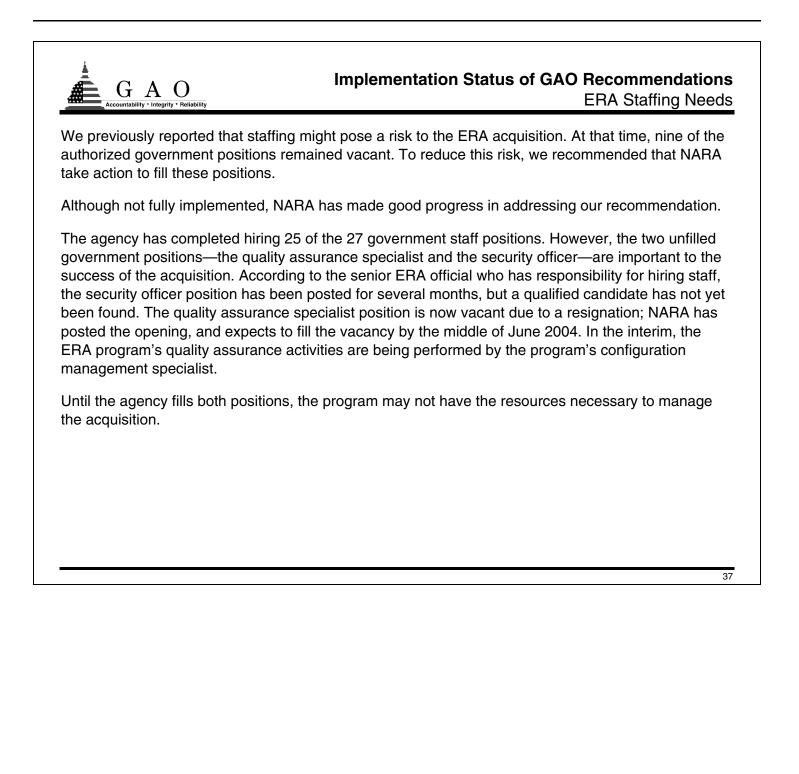


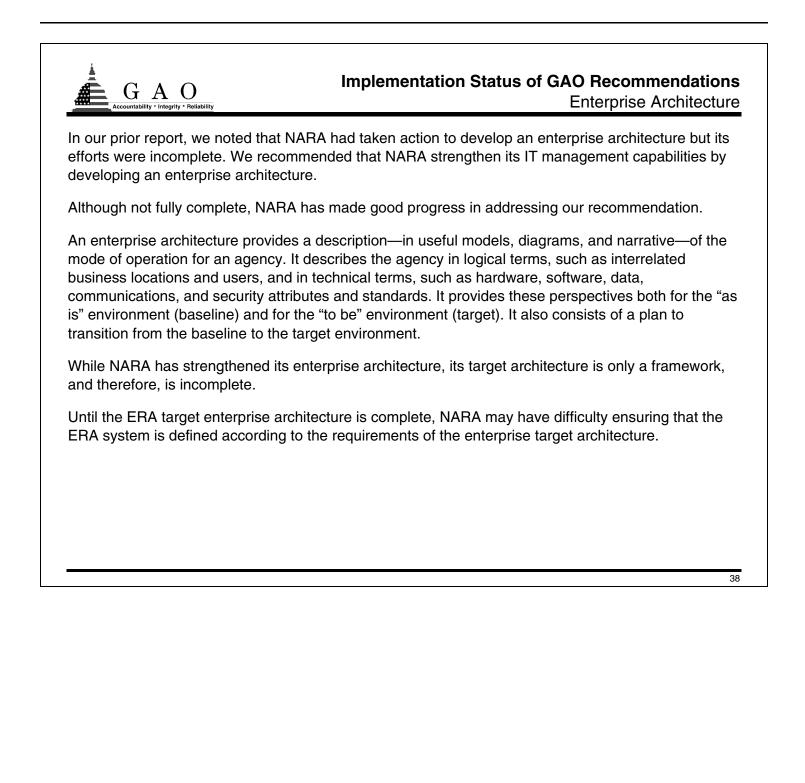


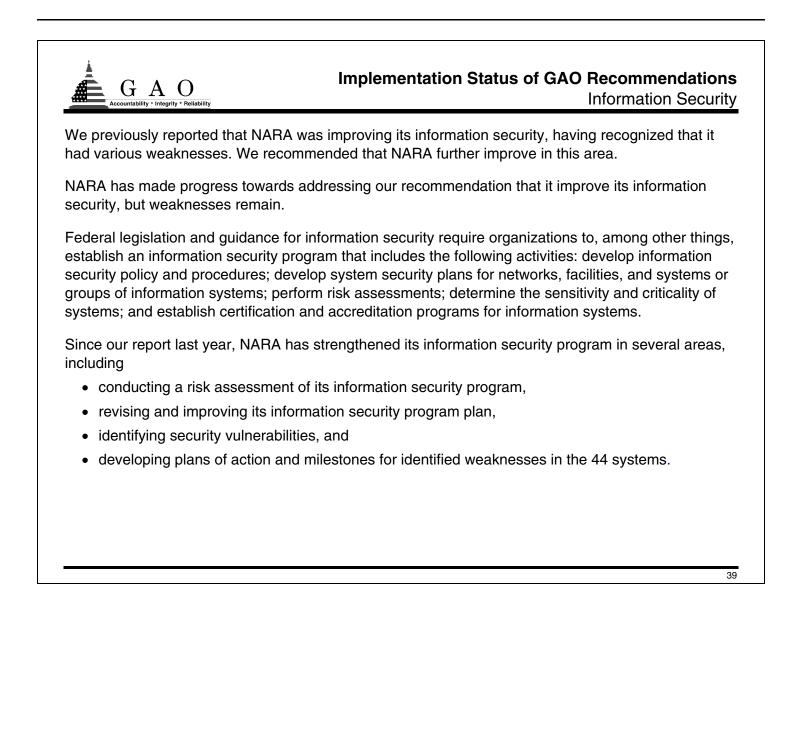












| Accountability · Integrity · Reliability | Implementation Status of GAO Recommendations Information Security |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| According to the Office of Inspector Ger remain, including | neral, however, weaknesses in NARA's information security |
| | r of all the systems on NARA's network revealed 9 evelop plans of action to address those weaknesses ⁸ . |
| NARA's classified systems are not necessary assurance that these systems | t centrally controlled, and the agency does not have the stems are adequately protected. |
| 0 | ormation security at the agency remains a material weakness. ains incompletely developed, the security weaknesses do not A program at this time. |
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| | |
| ⁸ In commenting on a draft of these briefing slides, N ninth will be addressed by August 31, 2004. | IARA indicated that eight of the nine weaknesses have been corrected and the |
| | 4 |



Conclusions

In the past year, NARA has strengthened key oversight and technical capabilities for acquiring the ERA system. The schedule for acquiring the system is now based on a work breakdown structure that includes dependencies between tasks and uses earned value management techniques. As a result, management within the program and the agency's overall ability to maintain control over acquisition processes have been strengthened. Oversight of the acquisition has also improved through the implementation of IT investment management reporting requirements from the program to the agency's senior management.

However, basic elements essential for the successful management of the ERA system are not fully in place. Acquisition policies and plans intended to define the project, establish the strategy for acquiring the system, and manage the day-to-day operations and those of the design contractors do not yet comply with industry standards. In particular, the lack of a process to ensure that the results of verification and validation reviews are incorporated into their respective policy or plan has significantly contributed to these weaknesses. Until key policies and plans conform to industry standards, the risk is increased that the agency will not be able to effectively manage the program and the contractors.

While NARA has made good progress in hiring key personnel, the information security and quality assurance positions are unfilled, and without these staff members, the agency may not be fully capable of managing the program and the activities of the design contractors.



Conclusions

Finally, two programmatic areas fundamental to ERA success in which the agency continues to make progress—information security and an enterprise architecture—remain incomplete. While the risks to ERA from weaknesses in information security may not appear to be significant at this time, any decline in NARA's continuing efforts to strengthen information security is likely to increase the risk to the schedule and cost goals. Because the enterprise target architecture is incomplete, NARA may have difficulty ensuring that the ERA system is designed according to the requirements of the enterprise architecture.

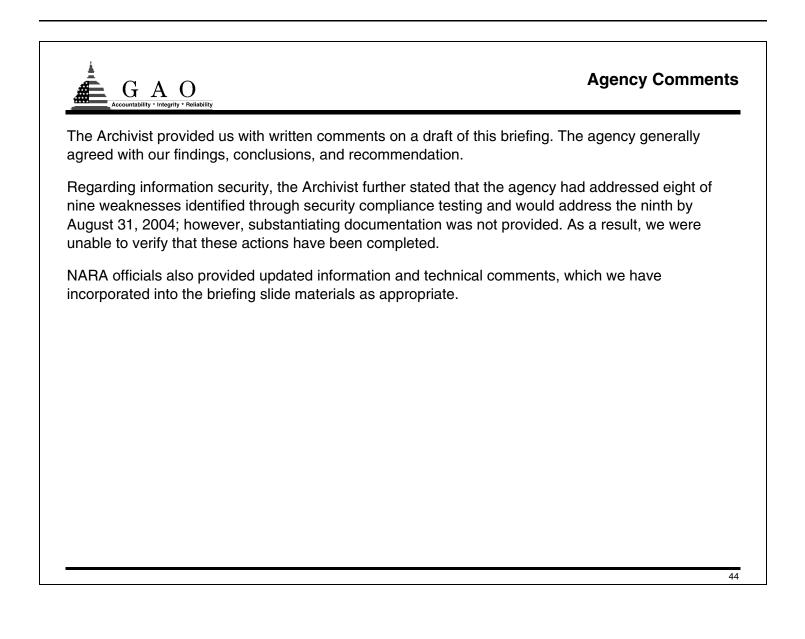
If NARA continues to make progress on implementing our recommendations on an enterprise architecture, information security, and staffing, the agency should be better positioned to successfully acquire the ERA system.

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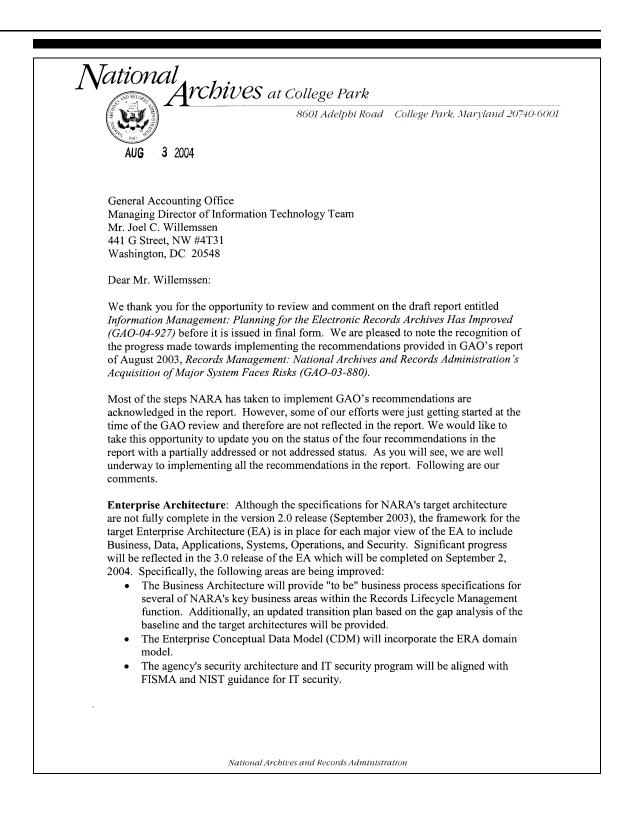


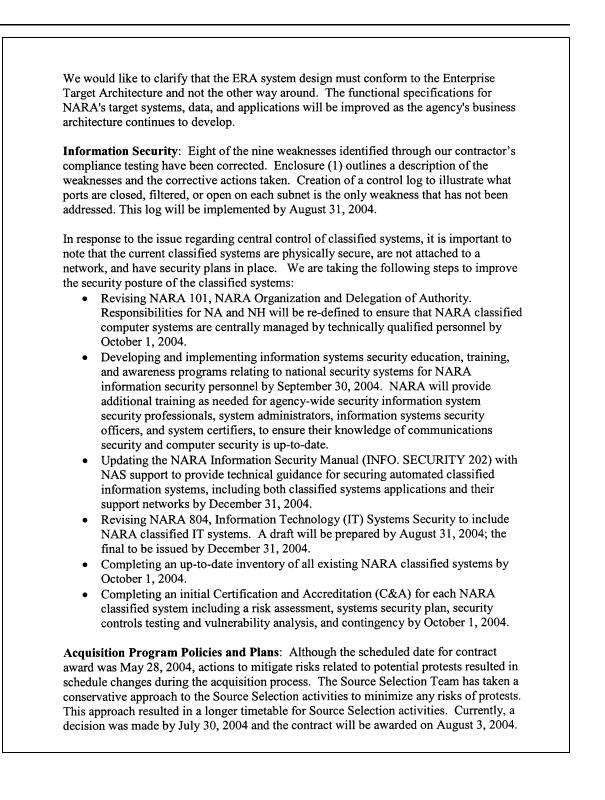
Recommendation

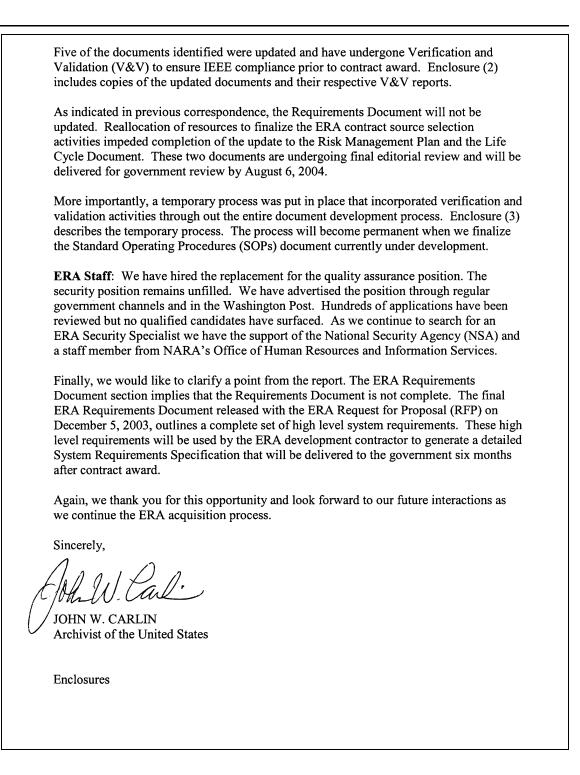
To reduce the risks associated with NARA's efforts to acquire ERA, we recommend that the Archivist direct the ERA program director to design and implement a process to ensure that recommendations from verification and validation reviews are addressed and incorporated into acquisition policies and plans.



Comments from the National Archives and Records Administration







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