

January 2001

TAX SYSTEMS MODERNIZATION

Results of Review of IRS' Third Expenditure Plan





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United States General Accounting Office Washington, D.C. 20548

January 22, 2001

The Honorable Ben Nighthorse Campbell Chairman The Honorable Byron L. Dorgan Ranking Minority Member Subcommittee on Treasury and General Government Committee on Appropriations United States Senate

The Honorable Jim Kolbe Chairman The Honorable Steny H. Hoyer Ranking Minority Member Subcommittee on Treasury, Postal Service and General Government Committee on Appropriations House of Representatives

Pursuant to the Department of Treasury's fiscal year 1998 and 1999 appropriations acts,¹ the Internal Revenue Service (IRS) submitted to the Congress in October 2000 its third expenditure plan, requesting \$200 million from its systems modernization appropriations account, referred to as the Information Technology Investments Account (ITIA). As required by the acts, we reviewed the plan. Our objectives were to (1) determine whether the third plan satisfied the conditions specified in the acts;² (2) determine IRS progress in response to the subcommittees'

¹The fiscal year 1998 Treasury and General Government Appropriations Act (Public Law 105-61) and the fiscal year 1999 Omnibus Consolidated and Emergency Supplemental Appropriations Act (Public Law 105-277).

²Per the acts, ITIA funds are unavailable until IRS submits to the Congress for approval a modernization expenditure plan that (1) implements IRS' Modernization Blueprint (IRS' enterprise architecture); (2) meets the Office of Management and Budget's (OMB) system investment guidelines; (3) meets IRS life-cycle management requirements; (4) is reviewed and approved by IRS, Treasury, and OMB, and is reviewed by GAO; and (5) meets federal acquisition requirements and management practices.

September 28, 2000, direction on the Custodial Accounting Project³ (CAP) and the Security and Technology Infrastructure Release (STIR) project;⁴ and (3) provide any other observations about the third plan and the systems modernization program.

On November 9, 2000, we briefed your offices on the results of our review. This report transmits our November 9, 2000, briefing and reiterates our recommendations to the Commissioner of Internal Revenue that were specified in the briefing. The full briefing, including our scope and methodology, is reprinted in appendix I. In summary, we made four major points:

- First, IRS' third expenditure plan satisfied the conditions specified in the appropriation acts, and IRS was making progress towards satisfying the subcommittees' direction on the CAP and STIR projects.
- Second, IRS was still making important progress in establishing effective modernization management capability, but important and challenging work remained. For example, IRS had defined its system life-cycle methodology, which IRS refers to as its Enterprise Life Cycle, and planned to have it implemented by early 2001. IRS had also created a modernization management program office and planned to have it fully functional by early 2001. In addition, IRS had developed a draft enterprise architecture but still needed to resolve significant issues concerning its completeness and accuracy. Until these and other modernization management weaknesses were fully addressed, we concluded, key modernization controls would be missing, putting IRS at risk of building systems that might not perform as intended, might cost more, and might take longer to complete.
- Third, five modernization initiatives experienced schedule delays and/or cost increases, each of which IRS disclosed in the third plan. However, the third plan did not address whether projects' prior commitments for delivery of promised systems capabilities (requirements) and benefit/business value were being met.

³CAP is one of a collection of systems that make up IRS' Integrated Financial System Project. CAP is designed to provide tax receipt and receivable analysis and reporting. Standard general ledger and other financial and administrative reporting as required by federal management directives are to be provided by other future projects.

⁴ STIR is the common integrated infrastructure to support and enable modernized business systems applications. As designed, it consists of a combination of custom and commercial-off-the-shelf software, hardware, and security solutions, integrated to form the technical foundation upon which modernized business systems applications will operate.

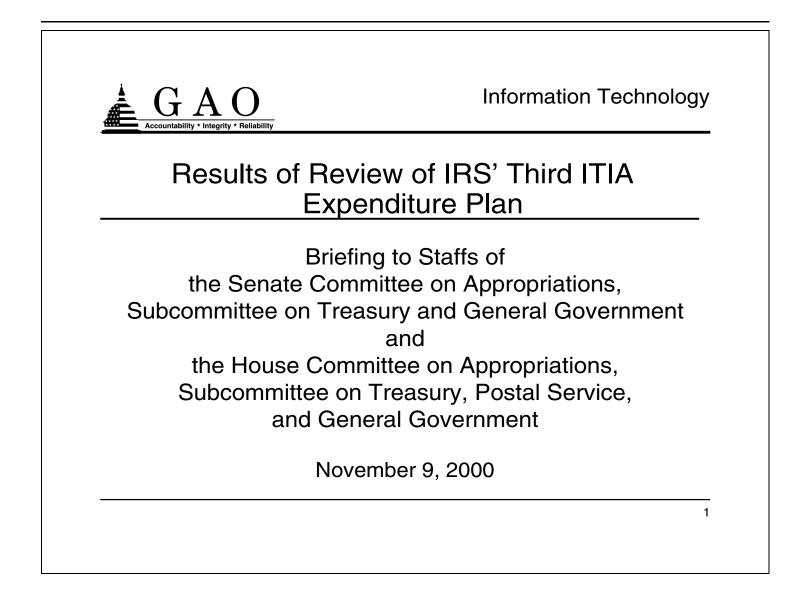
	• Last, IRS used contractor-provided "rough order-of-magnitude" estimates in preparing its third expenditure plan. However, consistent with its established practice, IRS planned to validate the third plan's estimates as part of its negotiating and definitizing contract task orders. For IRS' second expenditure plan, this process resulted in finalized contract costs that were \$9 million under the "rough order-of- magnitude" estimates in the plan.
Recommendations for Executive Action	To ensure that IRS fully responds to congressional direction and addresses modernization management weaknesses, we recommend that the Commissioner of Internal Revenue
	 follow through on plans to satisfy IRS appropriations subcommittees' direction on CAP and STIR; expedite the completion of IRS' enterprise architecture releases and implementation of other missing modernization management controls; not approve and fund detailed design and development activities for any system before the requisite enterprise architecture definition is completed; report immediately to IRS' appropriations subcommittees on any changes to commitments made in IRS' second plan concerning system requirements/capabilities to be delivered and the associated benefits to be realized, and continue to report such performance measures in future expenditure plans; and report to IRS' appropriations subcommittees on any variance from cost estimates in its third plan of 10 percent or more that result from definitization of contract task orders.
Agency Comments	In commenting on a draft of this report, the Commissioner of Internal Revenue agreed with our findings and recommendations. The Commissioner's comments are reprinted in appendix II.
	We are sending copies of this report to Senator Max Baucus, Senator Robert C. Byrd, Senator Orrin G. Hatch, Senator Joseph I. Lieberman, Senator Ted Stevens, and Senator Fred Thompson, and to Representative Dan Burton, Representative William J. Coyne, Representative Amo Houghton, Representative David R. Obey, Representative Charles B. Rangel, Representative Jim Turner, Representative Henry A. Waxman, and

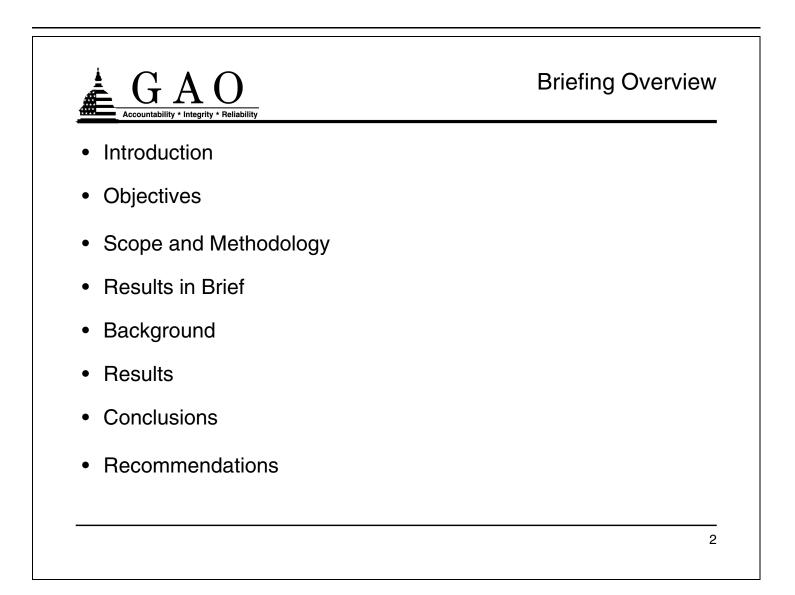
Representative C.W. Bill Young, in their capacities as Chairmen or Ranking Minority Members of Senate and House Committees and Subcommittees. We are also sending copies to the Commissioner of Internal Revenue; the Secretary of the Treasury; the Chairman of the IRS Oversight Board; and the Director of the Office of Management and Budget. Copies will also be made available to others upon request.

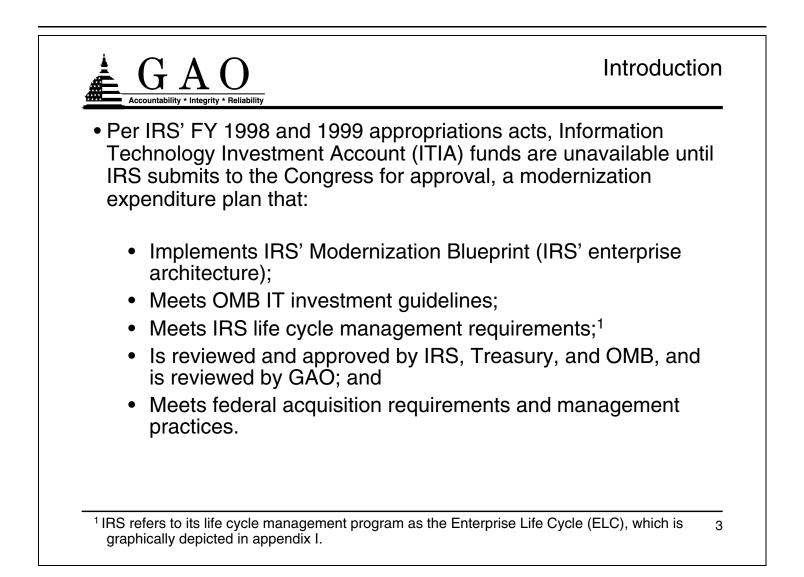
Should you or your staff have any questions on matters discussed in this report, please contact me at (202) 512-3439. I can also be reached by e-mail at *hiter@gao.gov.* Key contributors to this report are listed in appendix III.

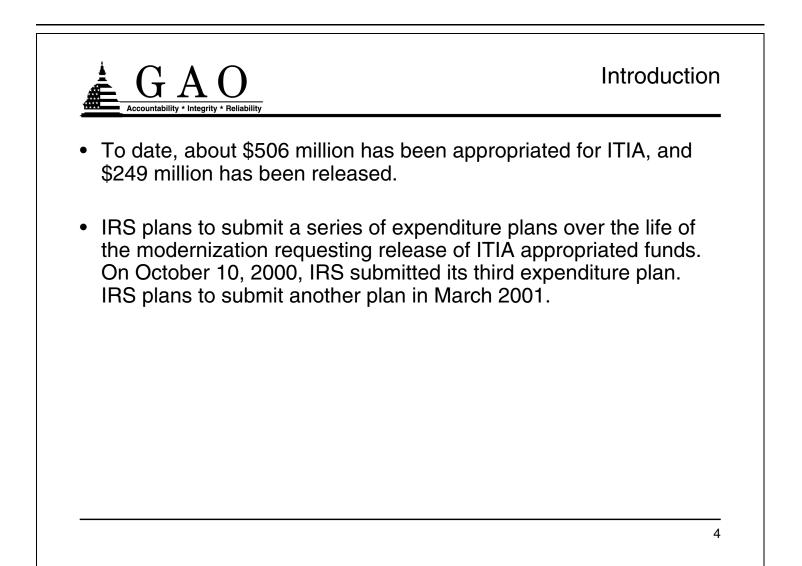
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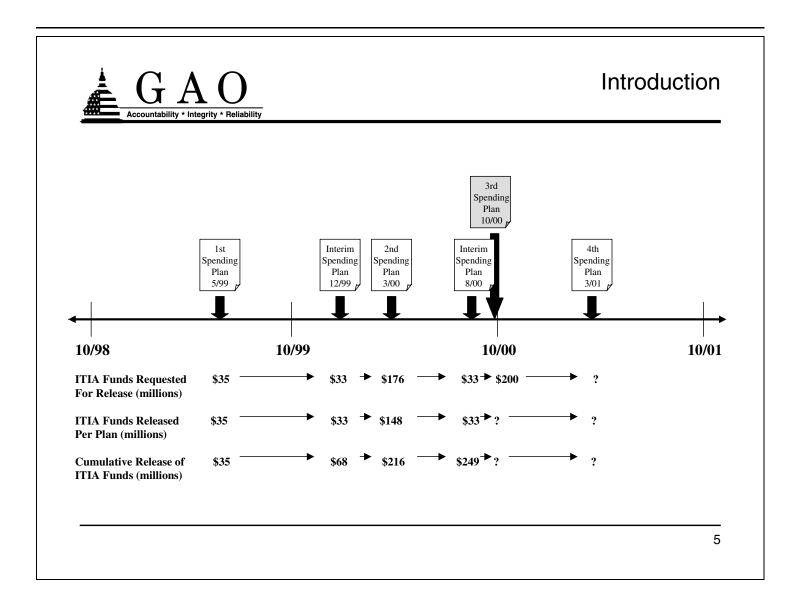
Randolph C. Hite Director, Information Technology Systems Issues

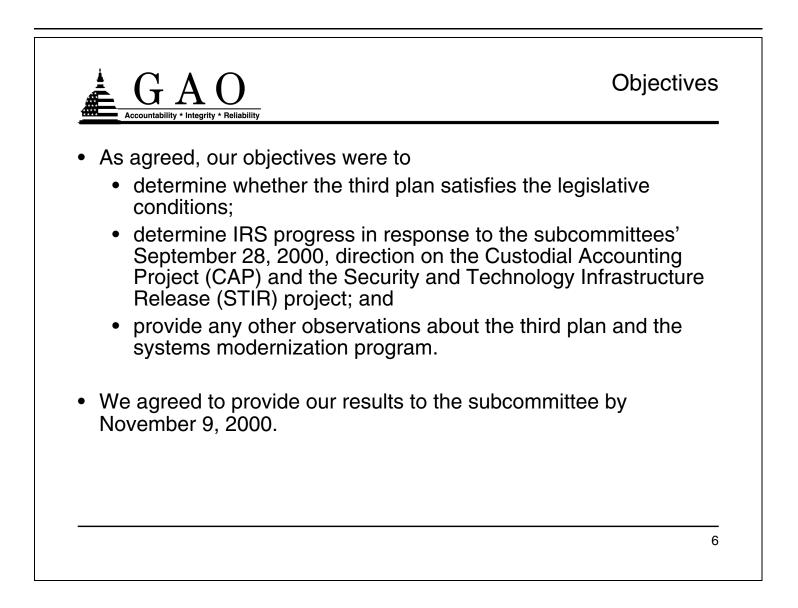


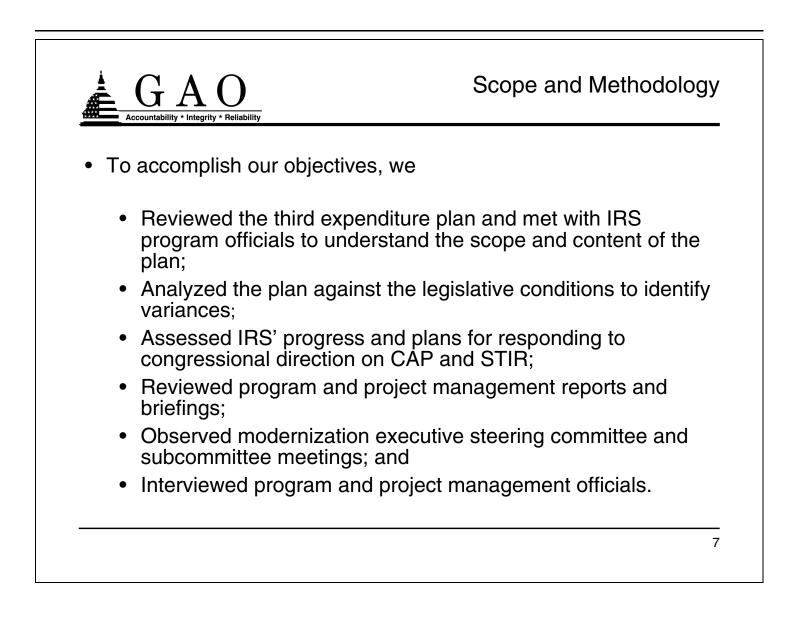


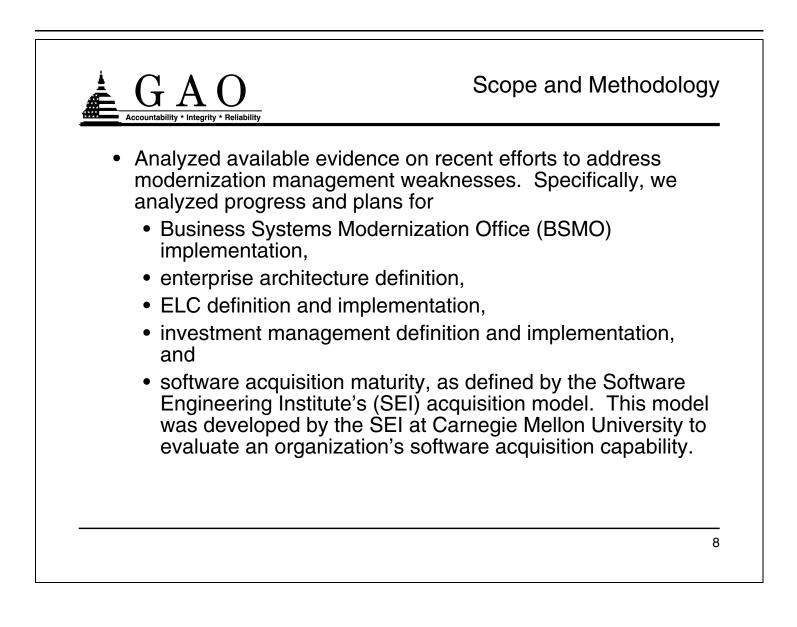


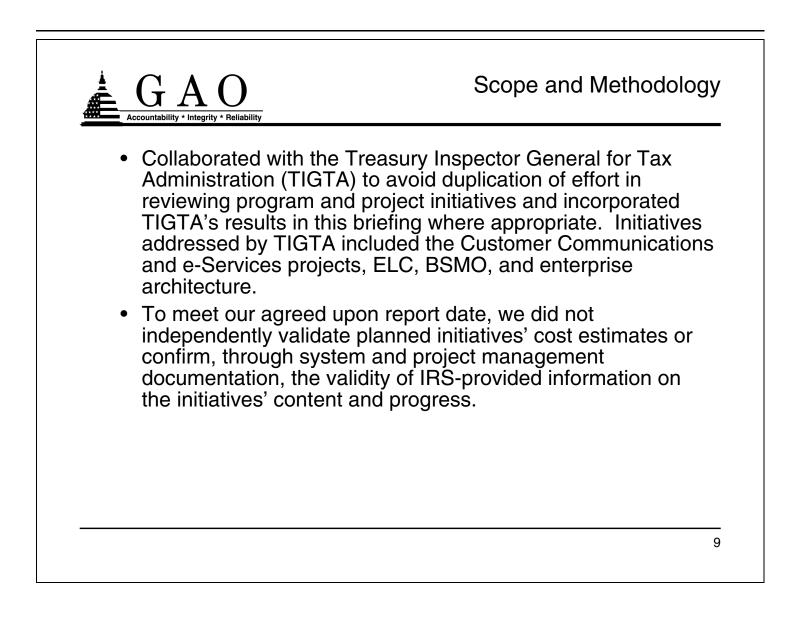


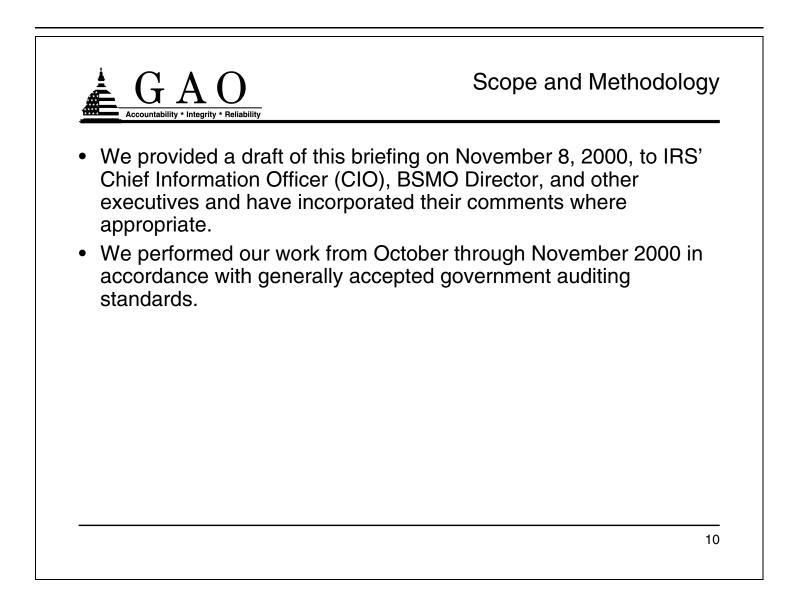




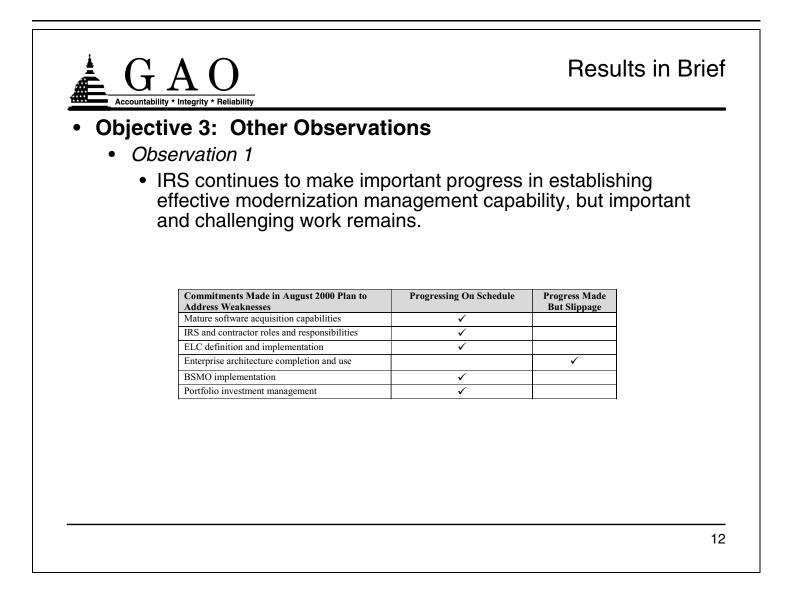


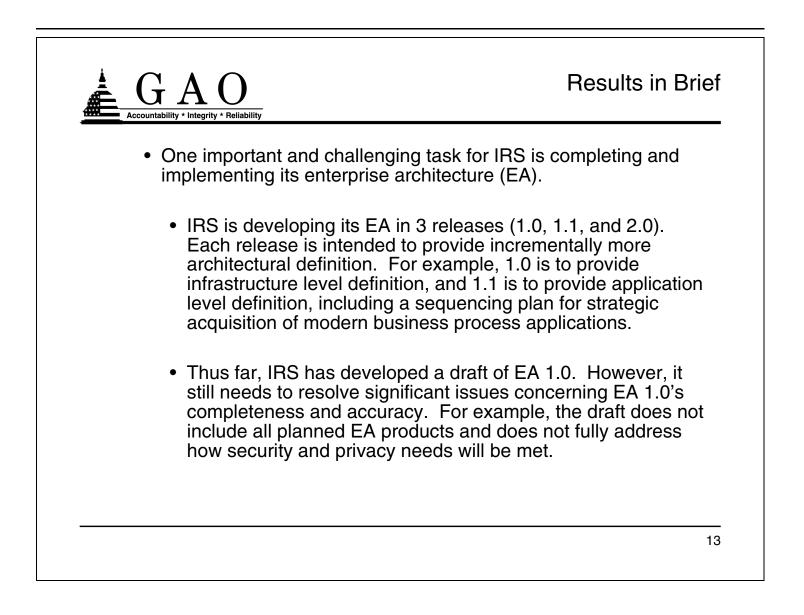


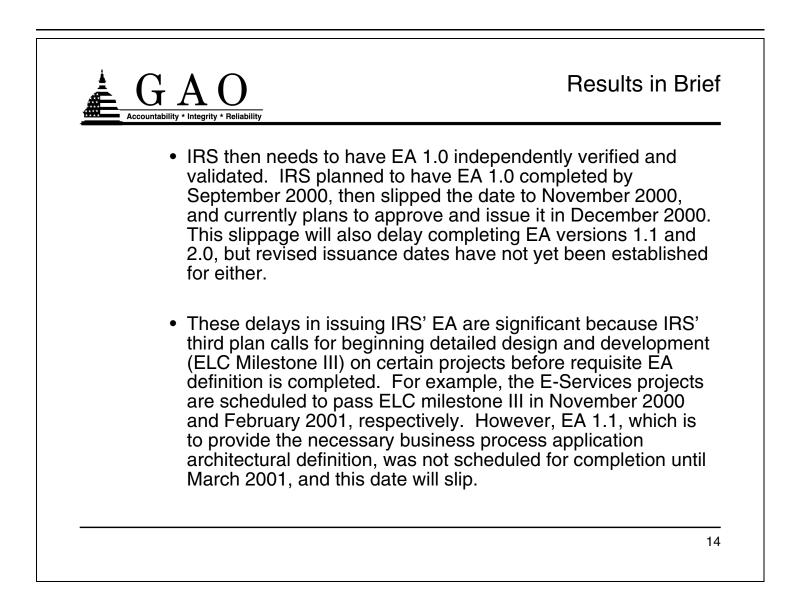


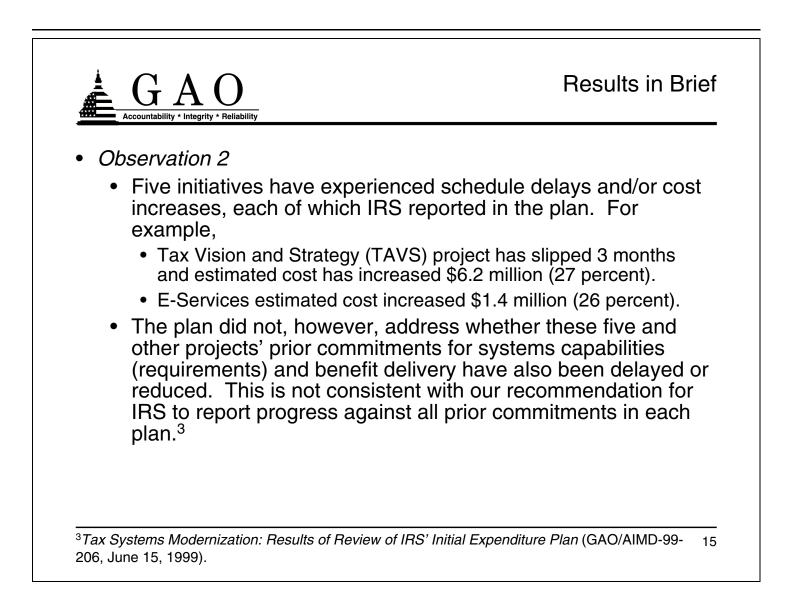


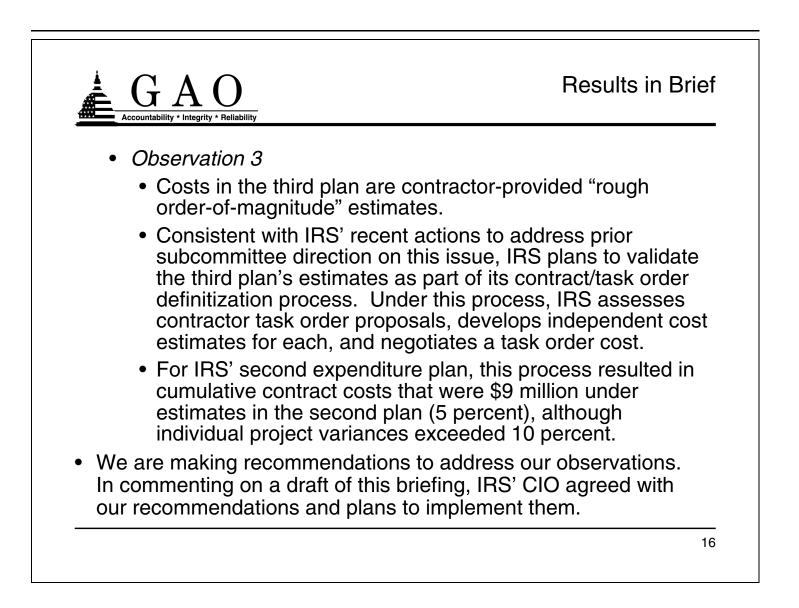
J A U puntability * Integrity * Reliability		Resu
ective 1: IRS' third plan satis	ies the	legislative
Legislative Conditions	Satisfies	Does Not Satisfy
1. Implements IRS' modernization blueprint.	✓ Judishes	Does not Sutisfy
2. Meets the requirements of IRS' life cycle program.	✓	
3. Meets OMB information systems investment guidelines.	√	
4. Reviewed and approved by IRS, Treasury's IRS Management	✓	
Board, and OMB, and reviewed by GAO.		
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5. Complies with federal acquisition requirements and management practices. ² ective 2: IRS is making programmer program	ess in r and S	In Progress (planned completion date)
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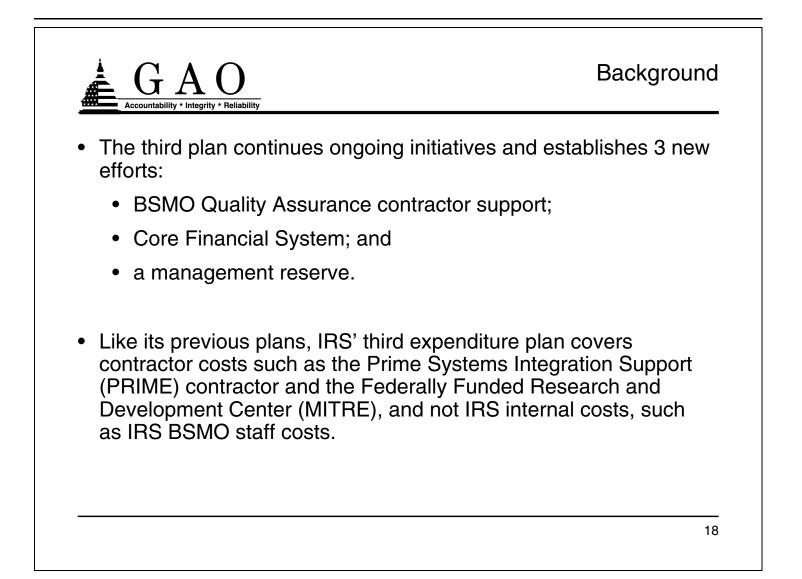


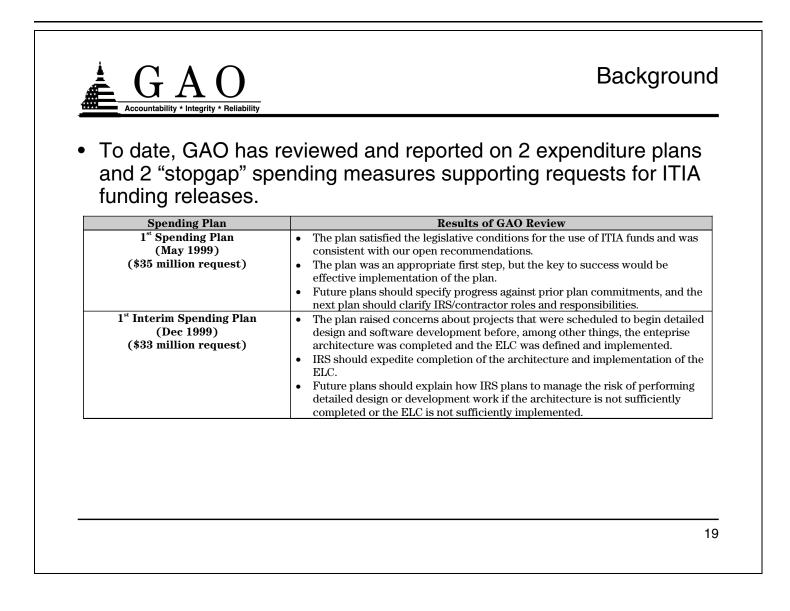




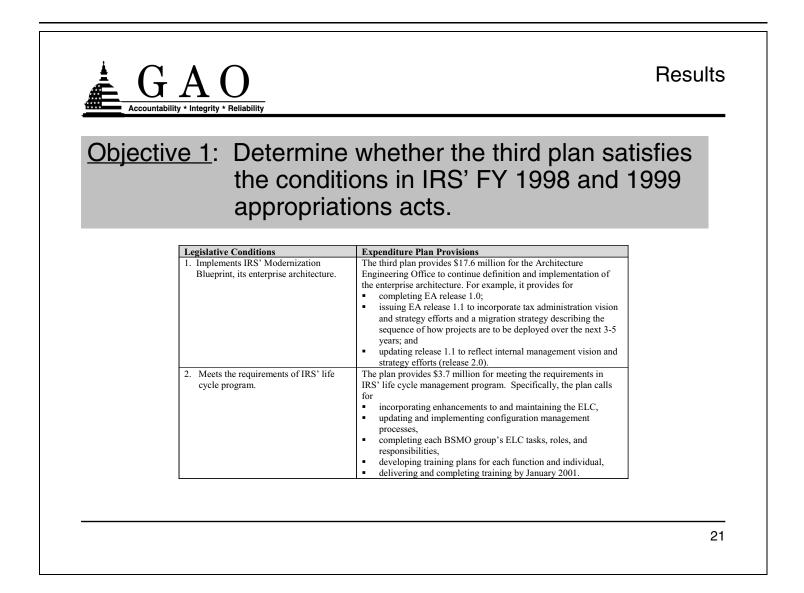


	ability * Integrity * Reliability	Background
The th	ird plan seeks approval to obligate about	\$200 million for
	rogram-level and project-specific activities	
	Third ITIA Expenditure Plan	(\$000)
	······································	(+++++)
	Program Level Activities	
	PRIME Program Management Office	\$21,856
	Federally Funded Research and Development Center (MITRE)	\$18,750
	ELC, Quality Assurance, and Configuration Management	\$7,394
	Architecture Engineering Office	\$17,570
	Vision and Strategy - Tax Administration	\$6,200
	Management Reserve	\$15,000
	Subtotal	\$86,770
	Project Level and Infrastructure Activities	
	Customer Services Capabilities	\$11,663
	Custodial Accounting Project	\$44,130
	Core Financial System	\$3,449
	Security and Technology Infrastructure Release	\$25,185
	Other Enabling Infrastructure	\$28,849
	Subtotal	\$113,276
	Total Requested Release	\$200,046





Spending Plan	Results of GAO Review
2 nd Spending Plan (Mar 2000) (\$176 million request) 2 nd Interim Spending Plan (Aug 2000) (\$33 million request)	 IRS met relatively few commitments in its \$35 million first ITIA spending plan even though the Service later received an additional \$33 million and nearly 5 months of extra time to accomplish the goals set forth in the first plan. The plan satisfied the legislative conditions for the use of ITIA funds, and was generally consistent with recommendations contained in our earlier reports. The key to success would be whether IRS effectively implements the plan. Until IRS completes its initiated actions to redirect and restructure its modernization effort, it would continue to lack key modernization and technical controls. IRS had not adhered to the approved and funded March 7, 2000, spending plan On selected initiatives, IRS had not met cost and schedule commitments made in its March 7, 2000 spending plan. Most modernization initiatives had nevertheless made important progress since March 2000. IRS fully addressed two of its modernization management capability weaknesses, and it was making progress in addressing others. One project, Custodial Accounting Project (CAP), had been approved for product development without sufficient definition and without a compelling business case. Further investment in CAP should be limited until IRS demonstrates sufficient business value and reports to the House and Senate committees on risk mitigation. Another project, Security and Technology Infrastructure Release (STIR), was being preliminarily designed without sufficient requirements definition and economic justification. The STIR project should be directed to complete a security risk assessment as soon as possible, and ensure that STIR requirements and the proposed design solution are economically justified through a business case.



Legislative Conditions 3. Meets OMB investment guidelines.	 Expenditure Plan Provisions IRS' expenditure plan provides for meeting OMB IT investment guidelines. As we reported in our September 2000 briefing and subsequent report, IRS has defined IT investment processes and is in the process of incorporating them into the ELC. It has a provide for implementation of IT investment processes
 Reviewed and approved by IRS, Treasury's IRS Management Board, and OMB, and reviewed by GAO. 	 It also provides for implementation of IT investment processes. IRSSeptember 29, 2000 Treasury's IRS Management Board—September 28, 2000 OMB—October 10, 2000 GAO—November 9, 2000
 Complies with federal acquisition requirements and management practices. 	 As part of the ELC, IRS has defined processes, roles, responsibilities, etc. for implementing selected Software Engineering Institute (SEI) Software Acquisition Capability Maturity ModelTM level 2 key process areas.⁴ If implemented effectively, these processes should meet federal acquisition requirements and management practices. More specifically, IRS' plan provides for, among other things, - training staff in these key process areas and having all projects following them by January 2001, having an independent assessor determine compliance with SEI's level 2 requirements by September 2001, continuing the use of performance-based task orders, using Monthly Program Management Reviews and an integrated master schedule to track projects' schedules and interdependencies to increase acquisition discipline.

Accountability * Integrity *	Reliability	Resul
	•	progress responding to rection on CAP and STIR
	CA	AP
GAO Findings In our September 2000 briefing and subsequent report, we stated that IRS had prematurely passed milestone III without a compelling business case to justify the decision. In addition, IRS had not demonstrated that CAP was integrated with other modernization projects.	Congressional Direction The subcommittees directed that no CAP funds be expended until IRS' CIO and CFO certify and report to the Subcommittees that a compelling business case had been established for treating CAP as a near-term priority and that the risks associated with post-milestone III development and the lack of program controls were being effectively mitigated.	IRS Response In response, IRS: - is revising the business case with the intent of showing compelling business value benefits that will be derived from developing CAP, plans to have the business case certified by the CIO and CFO once it is completed, and intends to report to the subcommittees in November 2000. - incorporated CAP into the Integrated Master Schedule; - moved CAP under the Program Management Process, with formal participation beginning in November 2000;
		According to IRS officials, no CAP funds from the August 2000 funding release have or will be used for post-milestone III work until it has fulfilled congressional direction.

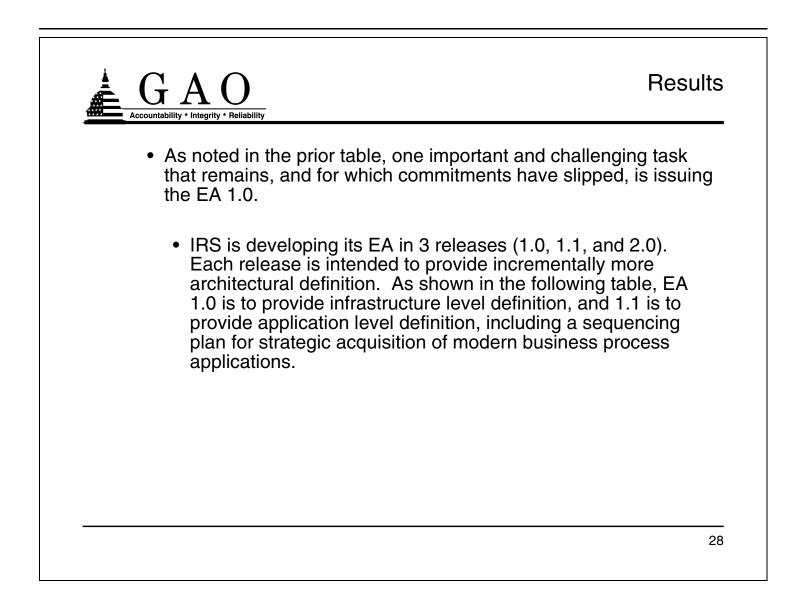
Accountability * Integrity * Ref	liability	Res
GAO Findings	Congressional Direction	IRS Response
In our September 2000 briefing and subsequent report, we stated that IRS did not have adequate assurance that it was properly designing STIR because it had not assessed the project's security threats and vulnerabilities, analyzed the resulting risks in terms of probability and impact, and used this security risk assessment (SRA) to develop and justify cost effective countermeasures.	The subcommittees directed IRS to complete an SRA, validate STIR project requirements against the results of the SRA, and have the results certified by the Commissioner. The subcommittees also directed that the STIR funds approved for release should only be used for the risk assessment until the Commissioner certifies the assessment is complete and the results applied to the project.	 In response, IRS: accelerated development of and completed an SRA and identified new risks: web interface vulnerabilities outsourcing internet service provider; engaged IRS' security office and Federally Funded Research and Development (FFRDC contractor (MITRE) to verify that the SRA is complete and consistent with IRS' ELC guidance, draft EA 1.0, and its Technology Model View logical design; is currently mapping the results of the SRA to the STIR project requirements to ensure that the system requirements document is complete and the baseline business case is cost effective; plans to obtain the Commissioner's certification of the completed SRA in November 2000. According to IRS officials, no STIR funds from the August 2000 funding release have or will be used for post-milestone III work until it has fulfilled Congressional direction.

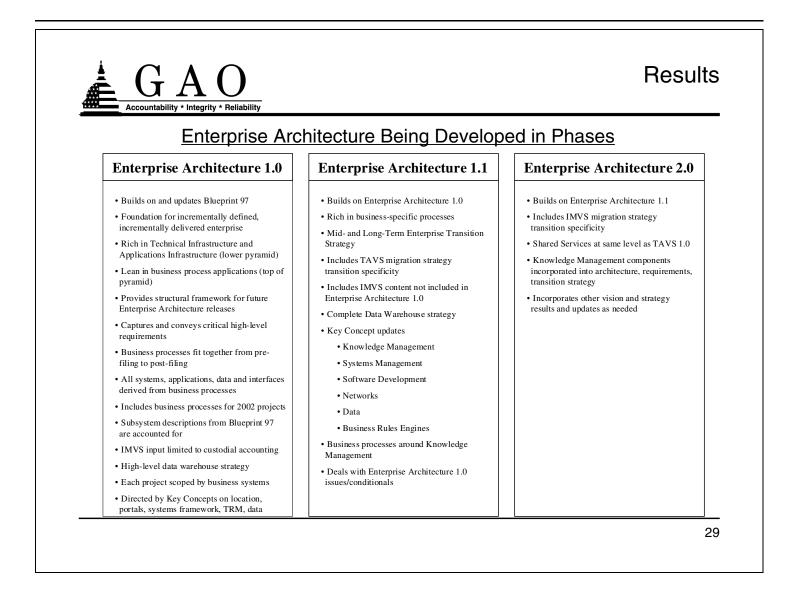
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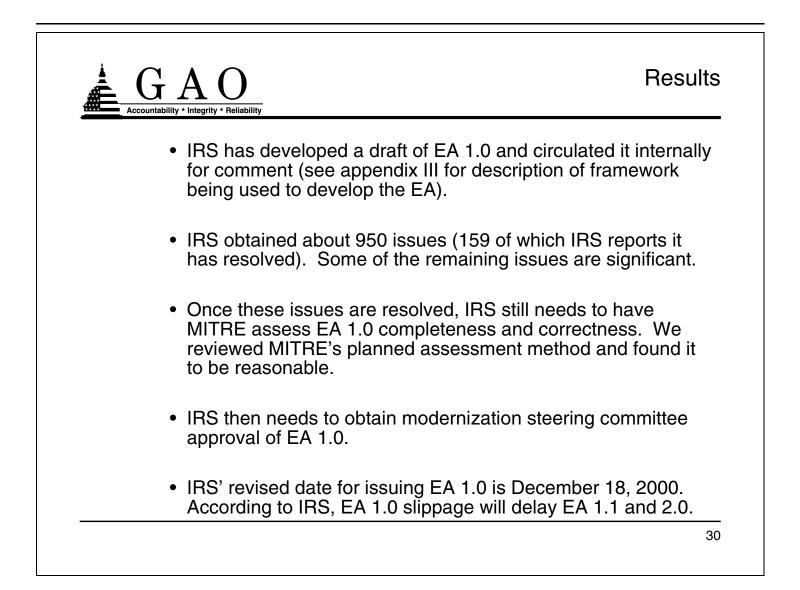
GAO Accountability * Integrity * Reliability	Results
<u>Objective 3</u> : Other observations about IRS' plan and its systems moderniza program	
Observation 1: Progress Occurring on Mana Weaknesses, But Important and Challenging	
 Since our September briefing and subsequent rep plan, IRS has continued to make important progres its remaining management weaknesses, and is or meeting most of its commitments for correcting the by January 2000 (e.g., having a fully functional BS commitments made in this last plan for addressing enterprise architecture have slipped. 	ess in addressing n schedule for ese weaknesses SMO). However,
⁶ Tax Systems Modernization: Results of Review of IRS' August 2000 Interi	m Spending Plan 25

Commitments Made in August 2000 Plan to	Completed	Progress On	Progress Made	
Address Weaknesses	Completeu	Schedule	But Slippage	
Mature software acquisition capabilities				
 Train staff in SA CMM level 2 key process areas and have all projects follow them by January 2001. 		~		
Have an evaluation performed by independent assessor in September 2001 to ensure compliance with SEI's level 2 requirements.		~		
IRS and contractor roles and responsibilities				
Implement defined IRS-PRIME roles and responsibilities by December 2000.	~			
 Define roles and responsibilities of other modernization support contractors vis-à-vis those of the PRIME contractor. 		~		
ELC definition and implementation				
 Develop/finalize parts of the ELC, including program control policies and procedures 75-80 change requests legacy system impact supplement enterprise architecture management supplement 		~		
 Provide training on ELC processes and procedures by January 2001. 		✓		
 Incorporate IT investment management controls into the ELC. 	✓			

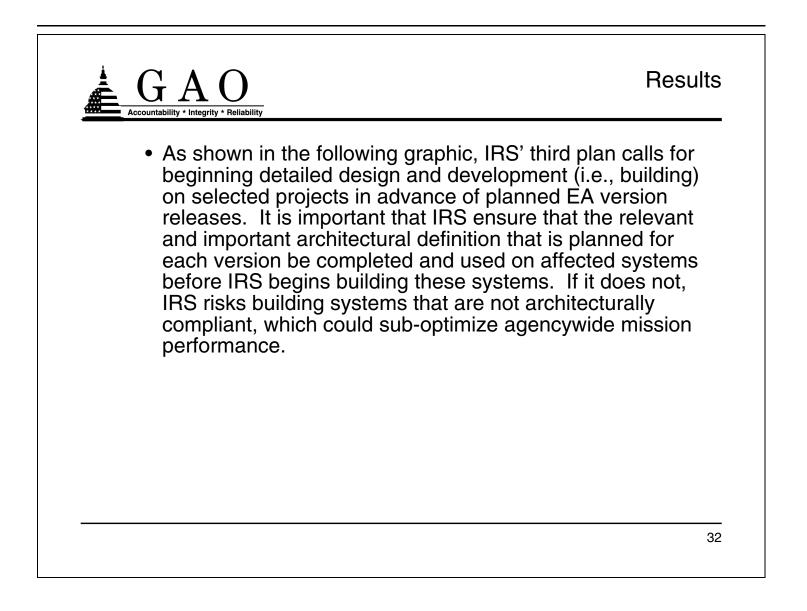
ility * Integrity * Reliability				
Commitments Made in August 2000 Plan to Address Weaknesses	Completed	Progress On Schedule	Progress Made But Slippage	
Enterprise architecture completion and use				
 Complete remaining 14 (out of 23) key concepts by mid-November 2000. 		×		
 Submit the enterprise architecture products comprising release 1.0 for review to IRS business and other stakeholders by October 1, 2000. 	~			
 Have the PRIME complete review of the quality of architecture products. 			✓	
 Have MITRE complete an assessment of release 1.0 completeness and adequacy. 			✓	
 Obtain Core Business Systems Executive Systems Committee's approval of EA 1.0 in early November 2000. 			✓	
BSMO implementation		-		
 Develop charters for the 8 units within BSMO. 		√		
 Complete training on BSMO roles, responsibilities, policies, procedures by January 2001. 		√		
 Fill vacant positions, including hiring contractor to support BSMO quality assurance. 		✓		
Portfolio investment management				
 Develop, analyze and prioritize project hypotheses. 		✓		
Determine project formation.		✓	ļ	
Prioritize, sequence and revise portfolio.		✓	ļ	
 Create project cases for action. 		✓		

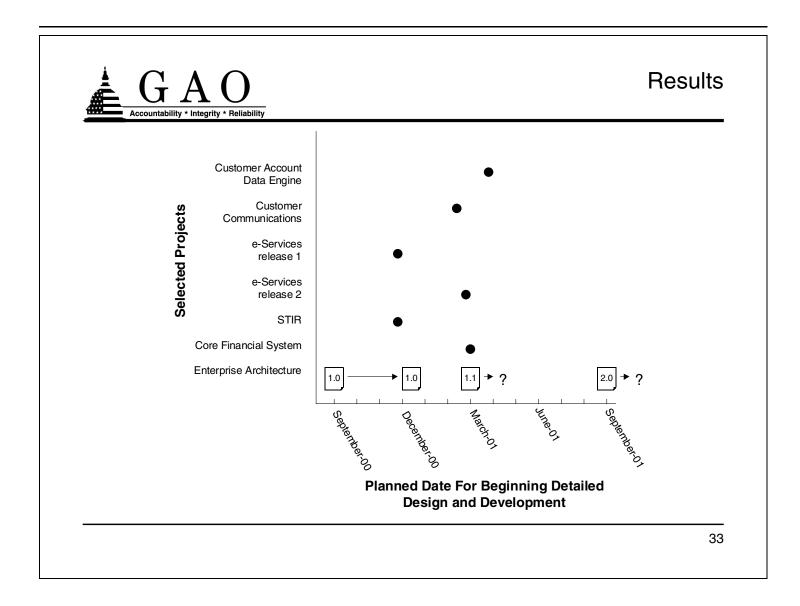


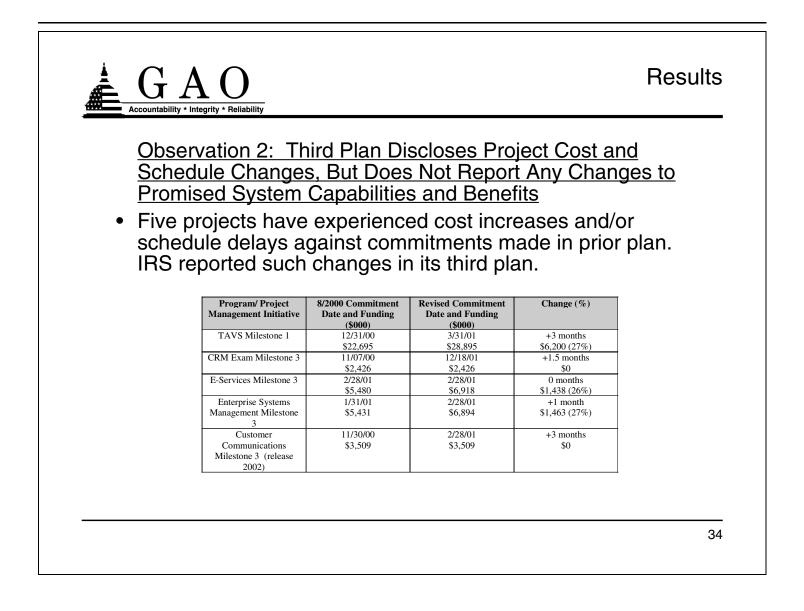


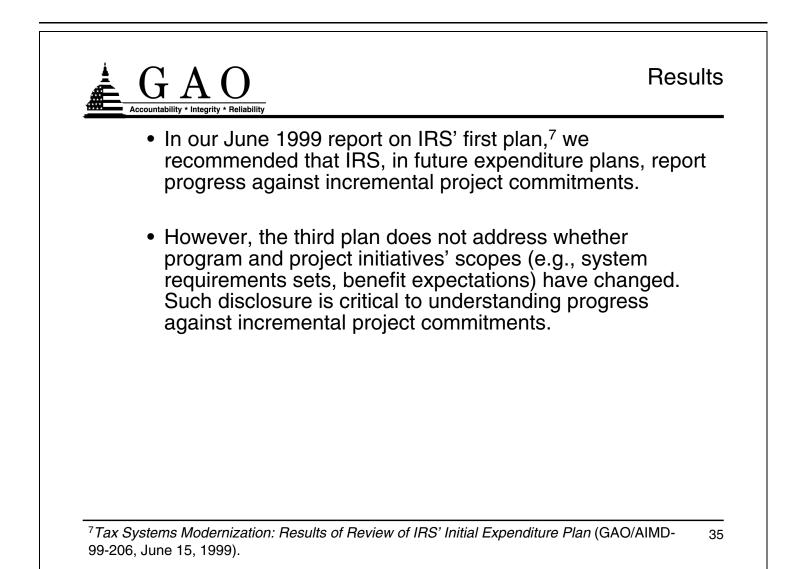


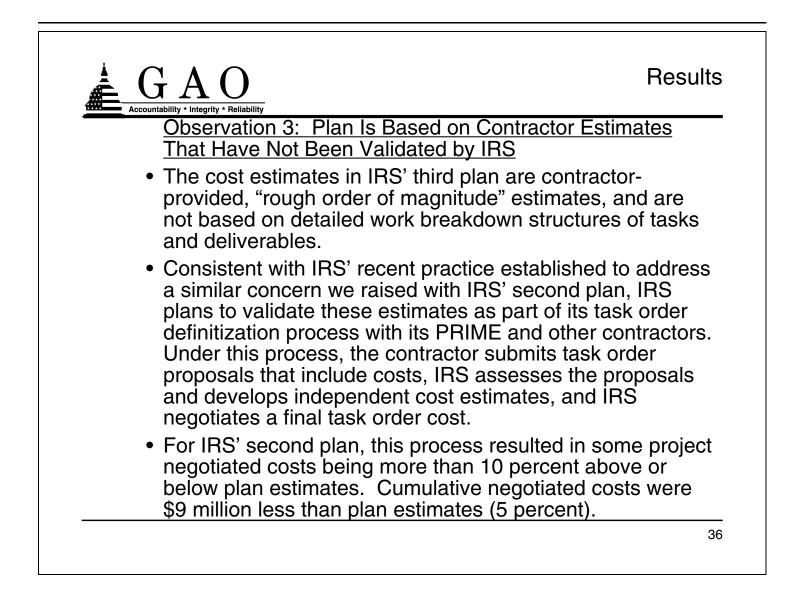
Accountability * Integrity *	$\underline{\frown}$	Res
Area of Comment	Summary of Comments	Proposed Resolution
Security	 Lacks a comprehensive security overview. Security needs are not fully reflected in the business process descriptions. 	 Develop a security overview that incorporates key concepts and identifies security points throughout the architecture. Add security needs to business process definitions.
Privacy	 No explicit privacy principles, constraints and assumptions. Lacks a comprehensive privacy view. 	 Clarify/add privacy principles, constraints and assumptions to enterprise architecture. Create a key concept for privacy. Map security functions to privacy needs. Consider adding Enterprise Requirement(s) for privacy.
Business Processes	 Tax Administration and Vision Strategy (TAVS) and enterprise architecture use different process models. Excludes differences among Business Operating Division business processes. 	 Incorporate TAVS operating models into enterprise architecture concept of operations. Assess need to incorporate Business Operating Division-specific tailoring. Tailor Business Architecture work products where needed.
Data	 Lack of breadth, depth, and accuracy in conceptual data model. Mapping of data to business processes incomplete. Security not reflected in the conceptual data model. 	 Extend conceptual data model to address scope of near-term projects. Complete mapping of data to business processes. Add security details to conceptual data model.
Business Systems	 Lacks complete definition of business systems. Interface definitions are incomplete. Mapping of systems to business processes incomplete. 	 Complete descriptions of business systems assigned to near-term projects. Complete descriptions of all business systems. Add interface descriptions for business systems assigned to near-term projects. Complete mapping of systems to business processes.
Enterprise Requirements	Lacks clear traceability to architecture.	No action planned because direct traceability not intended.
EA Consistency	Products not consistent with each other, key concepts, and Technical Reference Model.	Rework products to reflect Technical Reference Model structure and intent, reflect key concepts, and agree with each other.
EA Completeness	• Many work products are incomplete.	 Complete key work products to the extent necessary to support near-term projects and to resolve major issues impacting approval.
Traceability from Blueprint 97	• Elements of Blueprint 97 are not all traced to Enterprise Architecture.	Complete accountability tracing of Blueprint 97 elements into Enterprise Architecture.

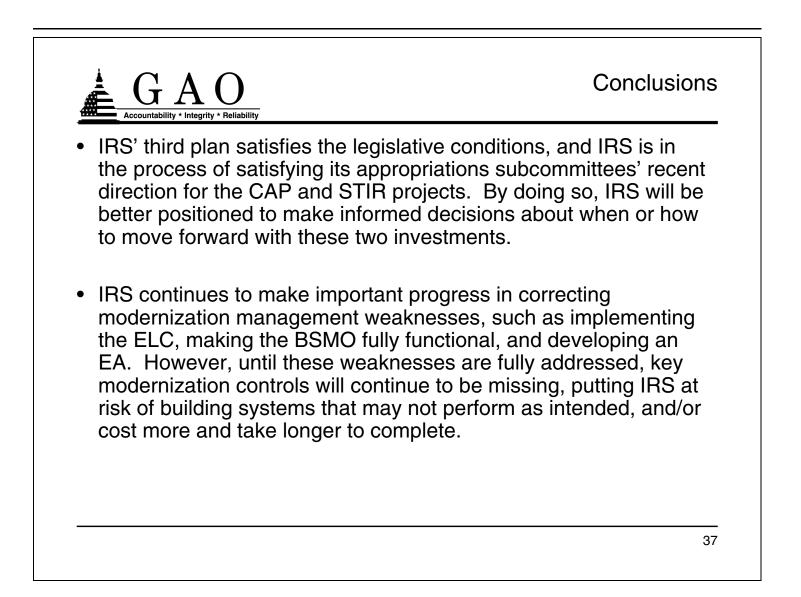


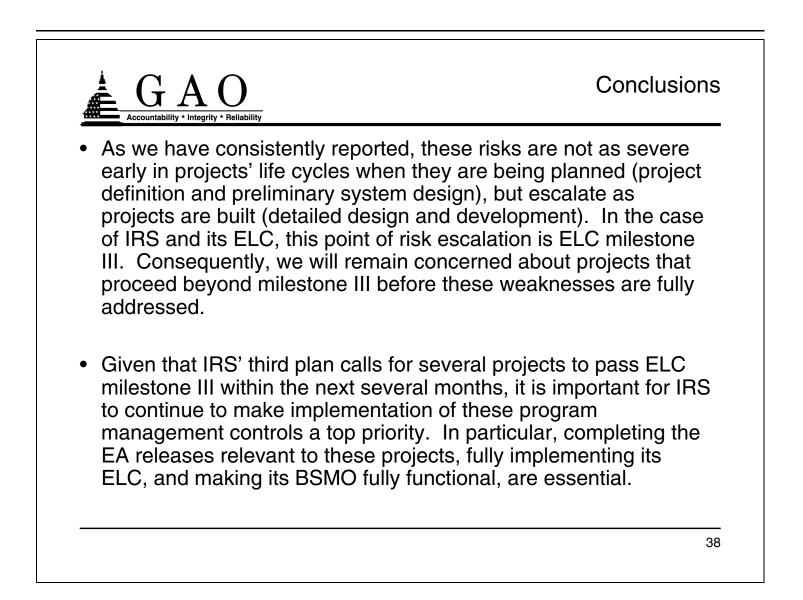


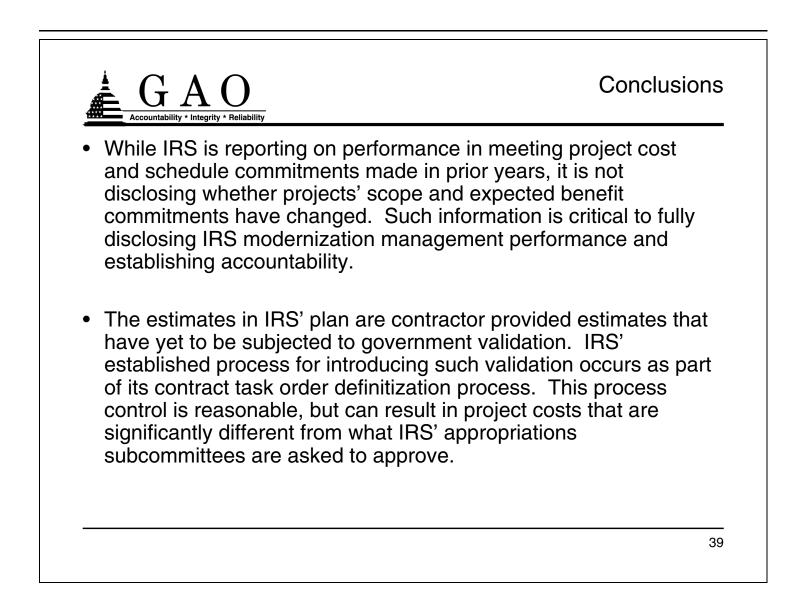


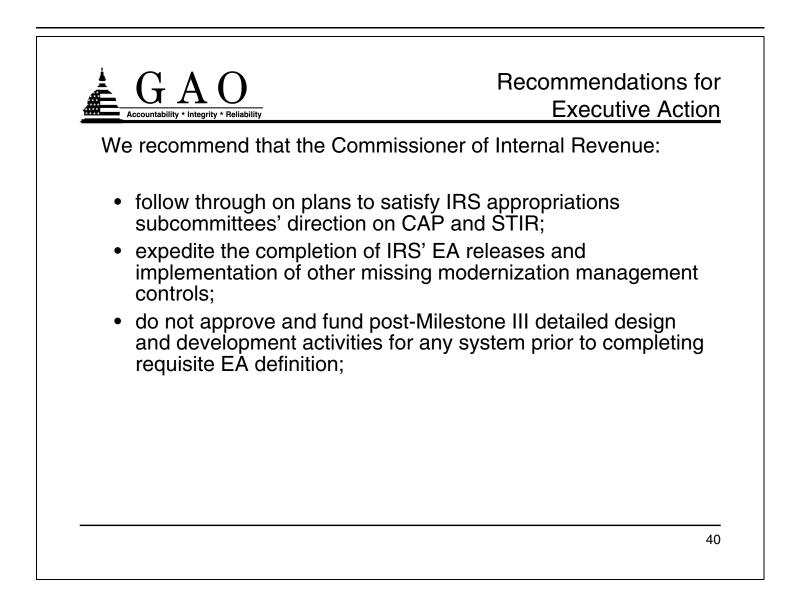


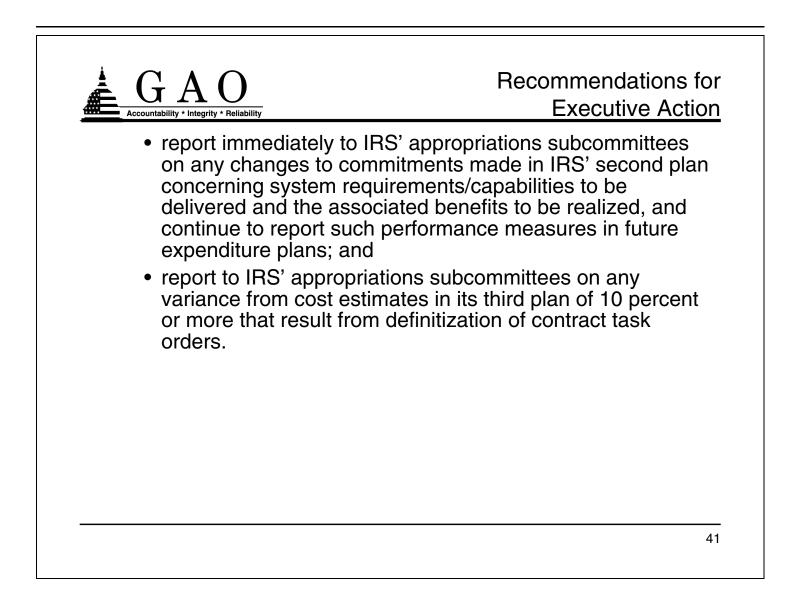


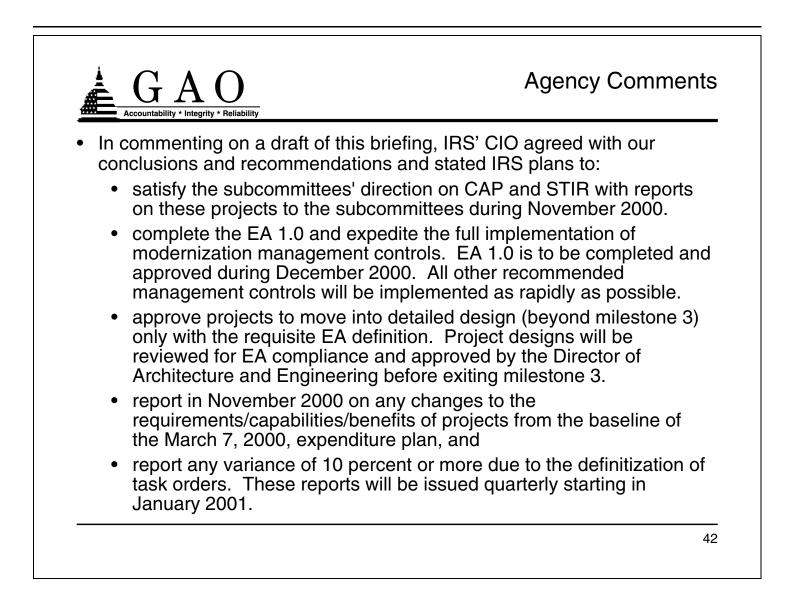


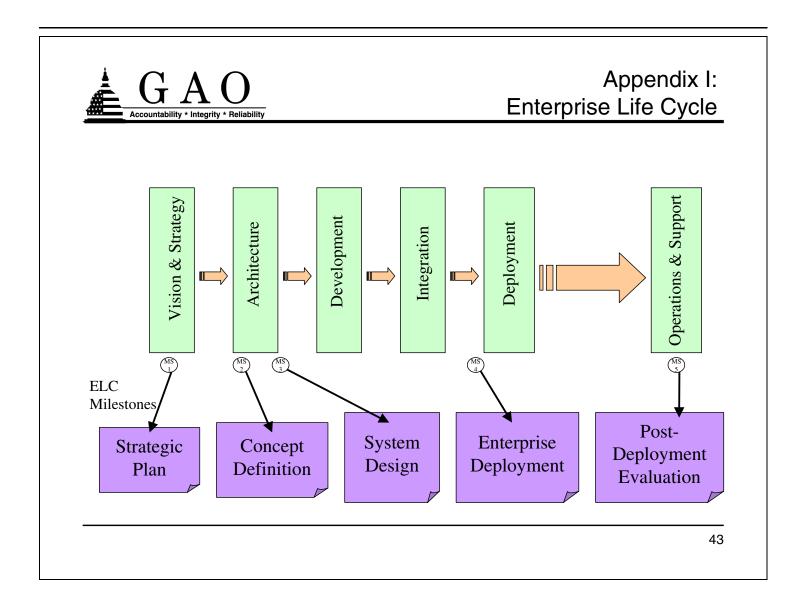












		•	nditure
Business Systems Modernization - ITIA Spendi	ng Plan FY 200	01 (\$000)	
		Milestone	Amount
Proposed Modernization Initiatives	Milestone	Date	Requested
Program Level Activities			
BSMO Quality Assurance	FY	Sep-01	\$1,800
PRIME Program Management Office	FY	Sep-01	\$21,856
ELC Enhancements and Maintenance	FY	Sep-01	\$3,686
FFRDC (MITRE)	FY	Sep-01	\$18,750
Architecture Engineering Office	FY	Sep-01	\$17,570
Configuration Management	FY	Sep-01	\$1,908
Vision and Strategy - Tax Administration	MS1	Mar-01	\$6,200
Management Reserve	FY	Sep-01	\$15,000
			\$86,770
Business Systems Projects	MCA	Con 01	¢0.017
CRM Exam (1120 Replacement) FS2001	MS4 MS4	Sep-01 Oct-01	\$9,917 \$1,746
e-Services (Window A) Custodial Accounting Project / Taxpayer Account Subledger	MS4 MS4	Jan-03	\$1,746
Core Financial System (CFS)	MS4 MS2	Dec-00	\$2,829
core r marcial System (Cr S)	MS3	Mar-01	\$620
	MOO	Ivial-01	\$59,242
			ψ 33,2 4Ζ

Accountability * Integrity * Reliability	IF	IS' Exp	Appendi enditure F
Infrastructure Projects			
Security and Technology Infrastructure Release (STIR)	MS4	Aug-01	\$25,185
Enterprise Systems Management (ESM)	MS3	Feb-01	\$6,894
	MS4	Nov-01	\$9,184
Solutions Demonstration Lab (SDL)	FY	Sep-01	\$1,759
Virtual Development Environment (VDE)	FY	Sep-01	\$6,310
Enterprise Integration and Test Environment (EITE)	FY	Sep-01	\$4,702 \$54,034

Accountability * Integrity * Reliability	Appendix EA Work Produc
Enterprise Business Direction Model View 01-Enterprise 02-Enterprise 03-Enterprise Business Direction Context Business Concept Model Diagrams of Operations	
System Engineering Model View 15-Systems 16-Taxonomy 17-Taxonomy of 18-Enterprise Development of Tools Enterprise Standards PCAs Standards and Conventions Conventions	Applications Model View 32-Application 33-Taxonomy of Application Types 34-Enterprise Application Matrix 35-Process/ Application API Definitions
19-Enterprise Conventions 20-Service Level PCAs 21-Taxonomy of Service Levels 22-Taxonomy of Interface Types 23-Reuse Strategy 24-Definition of Business Systems 25-Solution Design Patterns 26-Process/Systems Matrix	Data Model View 27-Data PCAs 28-Taxonomy of Data 29-Data Management 30-Enterprise 31-Process Approach Conceptual Data Model
Business Process Model View 04-Business Process Principles, Constraints, and Assumptions (PCAs) 05-Enterprise Process Hierarchy 06-Business Process Flows 07-Business Process Definitions Technology Model View 97-Technology 97-Technology 97-Technology 37-Technology PCAs 38-Taxonomy of Technology 39-Technology 19-Technology	PCAs Infrastructure Strategy 48-Infrastructure Concept of
Enterprise Requirements Strategy 53-Taxonomy of Requirements 54-Requirements Statements and Traceability Linkage 41-Security and	Security and Privacy Model View 42-Taxonomy of Security and Privacy Functions 43-Verification and Compliance 44-Security Function Matrix
to Projects to Projects Environment Release Plan Release Plan Re	Hong-Term requencing and lease Plan + years) Assessment Assessment Assessment Plan

Comments From the Internal Revenue Service

Ø	DEPARTMENT OF THE TREASURY INTERNAL REVENUE SERVICE WASHINGTON, D.C. 20224
A DECEMBER OF A	
COMMISSIONE	R December 21, 2000
Randu Direct U. S. 441 C Wash Dear I Thank Janua <i>Plan.</i> Your r congre comm <u>Recon</u> 1) Foi direct The C was se Techn 2000. 2) Ex implet We ag Enterp be con annual implet	December 21, 2000 blph C. Hite or, Information Technology Issues General Accounting Office : Street NW – Room 4T21 ington, D.C. 20548 Wr. Hite: : you for the opportunity to provide our comments to your draft report of ry 2000: <i>Tax Systems Modernization, Results of Review of IRS' Third Expenditure</i> We agree with your findings and we will address your recommendations fully. eport outlined five recommendations to IRS to ensure that we respond to essional direction and meet modernization weaknesses. Please allow me to ent on each. nnmendations How through on plans to satisfy IRS appropriations subcommittees' lon on CAP and STIR. ustodial Accounting Project (CAP) documentation, including the business case ent to the Congress on November 14, 2000. A letter addressing the Security ology Infrastructure Release (STIR) was sent to the Congress on November 20, pedite the completion of IRS' Enterprise Architecture releases and nentation of other missing modernization management controls. ree with your recommendation and plan to release IRS Business Systems rise Architecture, version 1.0, in the next few weeks. We anticipate that there will tinuing enhancements and therefore new versions as we move to a target of an release within the next year. We are also continuing the ongoing process of fully enting the IRS Enterprise Life Cycle (ELC) as it matures with continued use life cycle. We are also ensuring that management processes of the Business rs Modernization Office (BSMO) mature to a Capability Maturity Model (CMM)

2 3) Not approve and fund detailed design and development activities for any system before the requisite Enterprise Architecture definition is completed. I have required that any project requesting milestone 3 exit approval from the Core Business Systems Executive Steering Committee must first receive a certification from the Chief Information Officer that the project complies with the enterprise architecture. 4) Report immediately to IRS' Appropriations Subcommittees on any changes to commitments made in IRS' second plan concerning system requirements/ capabilities to be delivered and the associated benefits to be realized, and continue to report such performance measures in future expenditure plans. The IRS will report in the next expenditure plan, and all subsequent plans, the impact of the cost increases and schedule delays on the scope of the project and related projects. 5) Report to IRS' Appropriations Subcommittees on any variance from cost estimates in its third plan of 10 percent or more that result from definitization of contract task orders. The Subcommittees have asked that IRS propose threshold levels be applied for reporting purposes. We anticipate that we will employ the 10 percent or more threshold. Any variance in excess of the threshold will be subject to the prior approval of the Core Business Systems Executive Steering Committee. The IRS will report on any variances to the Spending Plan, including what we have committed and what we are planning to commit. We thank you for your recommendations and, once again, I extend my appreciation for the valuable guidance that we have received from your staff. Sincerely, Charle Rossoth. Charles O. Rossotti

GAO Contacts and Staff Acknowledgments

GAO Contacts	Gary Mountjoy, (202) 512-6367 Steve Sebastian, (202) 512-9521
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