



OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE

6000 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-6000

NETWORKS AND INFORMATION
INTEGRATION

FOR: UNDER SECRETARY OF DEFENSE (AT&L)

PDUSD(AT&L) _____

FROM: DASD(C3, SPACE AND SPECTRUM) 

SUBJECT: Air Force Mission Planning Systems Increment IV Critical Change Report

- Attached at TAB A for your signature, are four letters to the congressional defense committees (SAC, SASC, HAC, HASC) transmitting the Air Force Mission Planning Systems Increment IV (MPS Inc IV) Critical Change Report (CCR) required by chapter 144A of title 10, United States Code. Except for the addresses, the four letters are identical.
- The 3 Aug 11 Air Force Acquisition Executive letters to Congress and the enclosed 20 Oct 10 Critical Change Report is at TAB B. These items will be an attachment to the TAB A letters.
- As anticipated in the 23 Dec 10 MPS Inc IV CCR and Certification (TAB C), the program has experienced a second Critical Change for failure to achieve a Full Deployment Decision within 5-years of funds first obligated for the program. This type of breach is commonly called the 5-year clock Critical Change. Unlike other Critical Changes in schedule, performance, and cost that are based on the Program Manager's estimate vice the baseline, five years must have actually been exceeded prior to a 5-year clock Critical Change occurring. This second Critical Change reported in TAB B is directly related to the previous Critical Change and was projected in 20 Oct 11 CCR that stated (paragraph 1, Executive Summary) "Additionally, the MPS Increment IV program will not achieve Full Deployment Decision (FDD) within five years of funds first obligated." Thus, the 23 Dec 10 program evaluation and certifications remain valid.
- The D,CAPE Independent Cost Estimate memo and the Joint Staff recommendation to certify MPS Inc IV as essential to efficient management of the DoD are at TABs D and E, respectively. TAB F is Chapter 144A of Title 10, United States Code with the applicable section highlighted (pages 4 and 5). The ARA compliance matrix and coordination sheet are at TAB G.

RECOMMENDATION: Sign the letters at TAB A.

COORDINATION: TAB G.

Attachments:
As stated

Prepared by: Bob Ramsey, 703-602-2720 x153

TAB

A



THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

SEP - 1 2011

ACQUISITION,
TECHNOLOGY
AND LOGISTICS

The Honorable Daniel K. Inouye
Chairman
Committee on Appropriations
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

In accordance with title 10, U.S.C. 2445c, the Air Force Acquisition Executive, as the DoD Senior Official responsible for the Mission Planning Systems Increment IV acquisition program, has determined that a critical change in schedule has occurred. Enclosed is the Air Force Acquisition Executive's Certification letter and Critical Change Report as required by section 2445c.

This critical change is directly related to the critical change that was previously reported to Congress in December 2010. That critical change report and the associated certifications apply to this situation, and they are enclosed with the Air Force Acquisition Executive's Certification letter.

Similar letters are being sent to the other congressional defense committees.

Sincerely,

A handwritten signature in blue ink, appearing to read "Frank Kendall", is located below the "Sincerely," text.

Frank Kendall
Acting

Enclosure:
As stated

cc:
The Honorable Thad Cochran
Vice Chairman



THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

ACQUISITION,
TECHNOLOGY
AND LOGISTICS

SEP - 1 2011

The Honorable Carl Levin
Chairman
Committee on Armed Services
United States Senate
Washington, DC 20510

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Frank Kendall
Acting

Enclosure:
As stated

cc:
The Honorable John McCain
Ranking Member



THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

ACQUISITION,
TECHNOLOGY
AND LOGISTICS

SEP - 1 2011

The Honorable Howard P. "Buck" McKeon
Chairman
Committee on Armed Services
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

In accordance with title 10, U.S.C. 2445c, the Air Force Acquisition Executive, as the DoD Senior Official responsible for the Mission Planning Systems Increment IV acquisition program, has determined that a critical change in schedule has occurred. Enclosed is the Air Force Acquisition Executive's Certification letter and Critical Change Report as required by section 2445c.

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Frank Kendall
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Enclosure:
As stated

cc:
The Honorable Adam Smith
Ranking Member



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3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

ACQUISITION,
TECHNOLOGY
AND LOGISTICS

SEP - 1 2011

The Honorable Harold Rogers
Chairman
Committee on Appropriations
U.S. House of Representatives
Washington, DC 20515

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Enclosure:
As stated

cc:
The Honorable Norman D. Dicks
Ranking Member

TAB

B



DEPARTMENT OF THE AIR FORCE
WASHINGTON DC

OFFICE OF THE ASSISTANT SECRETARY

AUG 3 2011

The Honorable Carl Levin
Chairman
Committee on Armed Services
U.S. Senate
Washington, DC 20510

Dear Mr. Chairman:

In accordance with Title 10 United States Code, Chapter 144A Section 2445c, I have determined that a critical change has occurred with the Mission Planning Systems (MPS) Increment IV program. Specifically, the MPS Increment IV program has not achieved a full deployment decision within five years of when funds were first obligated for the program.

This critical change is directly related to the program's previous critical change and was anticipated in the Critical Change Report submitted to Congress in December 2010. The program evaluation and certifications reported then were intended to apply now and remain valid. Those documents are attached.

I will continue to oversee this program to ensure that the anticipated cost, schedule, and performance objectives are achieved.

A similar letter has been sent to the Ranking Member of your Committee and the Chairman and Ranking Members of the other Congressional Defense Committees.

Sincerely,

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David M. Van Buren
Air Force Service Acquisition Executive

Enclosure:
As stated



DEPARTMENT OF THE AIR FORCE
WASHINGTON DC

OFFICE OF THE ASSISTANT SECRETARY

AUG 3 2011

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U.S. Senate
Washington, DC 20510

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OFFICE OF THE ASSISTANT SECRETARY

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DEPARTMENT OF THE AIR FORCE
WASHINGTON DC

OFFICE OF THE ASSISTANT SECRETARY

AUG 3 2011

The Honorable Bill Young
Chairman
Subcommittee on Defense
Committee on Appropriations
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

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David M. Van Buren
Air Force Service Acquisition Executive

Enclosure:
As stated



DEPARTMENT OF THE AIR FORCE
WASHINGTON DC

OFFICE OF THE ASSISTANT SECRETARY

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Subcommittee on Defense
Committee on Appropriations
U.S. Senate
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DEPARTMENT OF THE AIR FORCE
WASHINGTON DC

OFFICE OF THE ASSISTANT SECRETARY

AUG 3 2011

The Honorable John McCain
Ranking Member
Committee on Armed Services
U.S. Senate
Washington, DC 20510

Dear Senator McCain:

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David M. Van Buren
Air Force Service Acquisition Executive

Enclosure:
As stated



DEPARTMENT OF THE AIR FORCE
WASHINGTON DC

OFFICE OF THE ASSISTANT SECRETARY

AUG 2 2011

The Honorable Thad Cochran
Vice Chairman
Committee on Appropriations
U.S. Senate
Washington, DC 20510

Dear Senator Cochran:

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DEPARTMENT OF THE AIR FORCE
WASHINGTON DC

OFFICE OF THE ASSISTANT SECRETARY

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The Honorable Norm Dicks
Ranking Member
Committee on Appropriations
U.S. House of Representatives
Washington, DC 20515

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Ranking Member
Committee on Armed Services
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Washington, DC 20515

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OFFICE OF THE ASSISTANT SECRETARY

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**MISSION PLANNING SYSTEMS (MPS)
INCREMENT IV**

**MAJOR AUTOMATED INFORMATION SYSTEM
(MAIS)**

CRITICAL CHANGE REPORT

October 20, 2010

**Mission Planning Systems Increment IV
Critical Program Change Certification
Executive Summary**

The Mission Planning System (MPS) Increment IV program is a Major Automated Information System (MAIS) Acquisition Category (ACAT) IAM program. The MPS Increment IV program declared a Critical Change (Program Delay \geq 1 Year) against the Milestone C in the September 30, 2009 MAIS Quarterly Report (MQR). Additionally, the MPS Increment IV program will not achieve Full Deployment Decision (FDD) within five years of funds first obligated. Program documentation will be updated to reflect current guidance on FDD criteria. The MPS Increment IV Critical Change was primarily driven by two factors: (1) the complexity of developing, integrating and testing the Tanker, Airlift and Special Mission (TASM) Spiral 1 Mission Planning Environment (MPE) comprised of eleven air platforms; and (2) unplanned development resulting from the Air Force Standard Desktop Configuration (SDC) policies requiring MPS software to be compliant with the Microsoft Vista operating system.

As a result of higher funding priorities, the Air Force restructured the program and terminated the TASM Spiral 1 MPE. MPS Increment IV program will continue developing and fielding the follow-on MPEs for the A-10, F-15, F-16, F-22, B-1B and RC-135 platforms and complete the initial migration of the HH-60 platform to MPS. In addition, the Air Force will leverage E-3 and E-8 development efforts completed under the TASM Spiral 1 MPE to field independent E-3 and E-8 aircraft platform MPEs for Air Combat Command (ACC). Due to the maturity of the E-3 and E-8 MPEs and low complexity of the HH-60 MPE, this approach reflects the best combination of delivering operational capability with low program execution risk. The new program estimates for cost and schedule reflect these changes.

The senior official for the MPS Increment IV critical change, the Air Force Service Acquisition Executive, formed a Critical Change Team (CCT) to conduct an evaluation of the program in accordance with Title 10 USC, Chapter 144A, §2445c. In summary, the CCT finds:

1. The automated aviation MPS capability provided by the MPS Increment IV system is certified as essential to the efficient management of Department of Defense (DoD).
2. The new estimates of the costs, schedule, and performance parameters with respect to the restructured program and system have been determined, with the concurrence of the Director of Cost Assessment and Program Evaluation, to be reasonable.
3. There is no need to modify the program's Key Performance Parameters.
4. No cost breach of the MAIS Annual Report (MAR) Original Estimate or Acquisition Program Baseline (APB) has incurred as a result of the critical schedule change.
5. There is no alternative to the system which will provide equal or greater capability at less cost.
6. The current management structure of the MPS Increment IV program is adequate to manage and control costs.

**Mission Planning Systems Increment IV
Critical Program Change Certification
Introduction**

The MPS Increment IV program declared a Critical Schedule Change for Milestone C in the program's September 30, 2009 MAIS Quarterly Report. Additionally, the CCT currently estimates that FDD will occur more than five years after MPS Increment IV funds were first obligated. The program's "Original Estimate" milestone dates were established in the initial MAR dated December 31, 2008.

The program schedule delay was driven by two factors: (1) the complexity of developing, integrating and testing eleven TASM platforms in a single MPE; and (2) unplanned development resulting from the Air Force SDC policies requiring MPS software to be compliant with the Microsoft Vista operating system.

The Air Force established the MPS program to consolidate service mission planning programs into a single effort with the objective to migrate legacy planning systems -- Unix-MPS and the Personal Computer (PC)-based Portable Flight Planning Software (PFPS) -- into a single, multi-service, PC-based system. MPS provides mission planners with the capability to develop detailed flight plans incorporating threats, targets, terrain, weather and aircraft performance information for fixed-wing and rotary wing aircraft sorties. MPS also provides the operator with the capabilities to optimize and deconflict routes, visualize flight plans and to securely upload all relevant information to an aircraft's avionics system.

The MPS program develops and delivers MPEs for air platforms. MPEs are composed of hardware, software, data, training, and logistics items needed for aircraft and munitions mission planning functions. An MPE's software is composed of three layers: 1) a Unique Planning Component (UPC) that provides planning tools and displays unique to a specific platform(s); 2) Common Components (CCs) that provide planning tools utilized by two or more MPEs (i.e. weather planning, threat avoidance planning); and 3) a Framework (FW) layer that provides the software infrastructure utilized by all MPEs and controls the interface between the computer operating system, the UPC and CCs.

Previous to the critical schedule change, MPS Increment IV was to develop initial MPEs for the TASM Spiral 1 capability comprised of eleven air platforms, and the HH-60 aircraft. Additionally, MPS Increment IV was developing upgraded MPS versions for platforms that have transitioned in preceding increments to include the A-10, F-15, F-16, F-22, B-1B and RC-135 platforms.

As a result of the critical change and higher funding priorities, the Air Force restructured the program and terminated the TASM Spiral 1 MPE. The MPS Increment IV program will continue developing and fielding upgraded MPEs for the A-10, F-15, F-16, F-22, B-1B and RC-135 platforms and complete the initial migration of the HH-60 platform to MPS. In addition, the Air Force will leverage TASM Spiral 1 development efforts to field independent E-3 and E-8 aircraft platform MPEs for the ACC.

**Mission Planning System Increment IV
Critical Program Change Certification**

“The automated information system or information technology investment to be acquired under the program is essential to national security or the efficient management of the Department of Defense”

On March 9, 2010, the Force Application Functional Capabilities Board (FA FCB) reviewed the results of the MPS Increment IV critical change assessment to support the Senior Official’s written certification to Congress. The J8 Deputy Director for Requirements endorsed the FA FCB recommendation that the automated aviation mission planning capability provided by the MPS Increment IV system be certified as essential to the efficient management of DoD.

**Mission Planning System Increment IV
Critical Program Change Certification**

“There is no alternative to the system which will provide equal or greater capability at less cost”

The CCT found no alternative systems that could provide equal or greater capability at less cost. In accordance with Title 10 US Code, Chapter 144A, the CCT conducted two separate evaluations assessing (1) projected cost and schedule for completing the program based on reasonable modification of requirements; and (2) rough order of magnitude cost and schedule estimates for any reasonable alternative system or capability. The CCT conducted each evaluation against the program baselined in the December 31, 2008 and 2009 MAIS Annual Reports.

In the first evaluation, the CCT assessed five options for the modification of program requirements:

1. Modification of MPS Increment IV KPPs;
2. Removal of Non-TASM Spiral 1 MPEs from program;
3. Spiral delivery of TASM Spiral 1 MPE air platforms capability;
4. Removal of Vista/SDC migration requirement; and
5. Removal of TASM Spiral 1A from Increment IV

The CCT found none of the options to be advantageous.

#	Option	Capability to Warfighter	Cost Impact	Schedule Impact
1	Modification of KPPs	Less capability delivered	Increased Costs	Increased Schedule
2	Removal of non-TASM Spiral 1 MPEs from program	Less capability delivered	Deferred Costs	No impact on Milestone C and FDD schedule dates
3	Spiral delivery of TASM Spiral 1 MPE air platforms capability	Same capability delivered over longer time period	Increased Costs	Increased Schedule to meet FDD
4	Removal of Vista/SDC compatibility requirement	No capability delivered – system not authorized for use on Air Force networks	Deferred Costs	Increased Schedule to meet FDD
5	Removal of TASM Spiral 1A	Less capability delivered	Deferred Costs	No impact on Milestone C and FDD schedule dates

In the second evaluation, the CCT assessed the legacy PFPS and a Commercial-Off-The-Shelf (COTS) flight planning system. The CCT found that legacy PFPS does not

provide the full Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) KPP or the Net Ready KPP capability, and is not compliant with the Microsoft Vista operating system. To modify the PFPS to the same capability level of MPS Increment IV, the Air Force would have to invest an additional \$117 million over the life span of the system for both development and sustainment efforts. The CCT did not find the COTS system a reasonable alternative because it does not contain the necessary capability to support military missions.

As a result of the Air Force decision to terminate the TASM MPE, the CCT conducted a third evaluation assessing three viable options. These options are:

1. Status Quo:
 - Terminate TASM and HH-60 MPEs
 - Platforms not migrated (TASM MPE platforms [C-5, C-17, C-130 E/H/J, KC-135, OC-135, NKC-135, KC-10, E-3 and E-8] and HH-60 MPE) remain on their existing legacy systems
 - Platforms already migrated (A-10, F-15, F-16, F-22, B-1 and RC-135) remain on MPS
2. Status Quo Modified:
 - Complete and migrate E-8, E-3 (previously part of TASM) and HH-60 MPEs to MPS
 - Platforms not migrated (C-5, C-17, C-130 E/H/J, KC-135, OC-135, NKC-135, and KC-10) remain on their existing legacy systems
 - Platforms already migrated (A-10, F-15, F-16, F-22, B-1 and RC-135) remain on MPS
3. Complete Originally Envisioned MPS Increment IV program as defined in the December 31, 2008 MAIS Annual report
 - Complete and migrate the TASM and HH-60 MPEs to MPS
 - Platforms already migrated (A-10, F-15, F-16, F-22, B-1 and RC-135) remain on MPS

Options	Achieves CDD	Delivers New Capability	Recovers Increment IV Schedule	Affordable	Risk
1) Status Quo	Yes	No	N/A	Yes	Low
2) Status Quo Modified	Yes	Yes	Yes	Yes	Low
3) Complete Originally Envisioned MPS Increment IV Program	Yes	Yes	No	No	High

The CCT, in coordination with the CAPE, determined that option two “Status Quo Modified” provides the best value to the government. The E-8 and E-3 MPEs are over 95% complete and represent low cost, schedule and technical risk to the execution of Increment

IV. Further, option two provides operational benefits to ACC in the areas of commonality (all ACC special mission platforms on MPS), efficiency (planning systems reduced from three to two simplifying operational planning and sustainment) and flight safety (increased automation reduces errors from manual entry of navigational data, e.g. terrain and structures). Operational benefits specific to the E-3, E-8 and HH-60 platforms include reduced planning times and improved situational awareness (adds electronic warfare threat analysis for Order of Battle and Route analysis).

**Mission Planning System Increment IV
Critical Program Change Certification**

“The new estimates of the costs, schedule, and performance parameters with respect to the program and system have been determined, with the concurrence of the Director of Cost Assessment and Program Evaluation, to be reasonable”

The CCT did not find any reasonable rationale to support modification of the MPS Increment IV KPPs. The MPS Increment IV system is estimated to meet all KPPs as captured in the JROC-validated March 20, 2006 Capability Development Document (CDD). MPS Increment IV KPPs are not a driver of the program schedule delay.

In accordance with the Air Force decision to cancel the TASM Spiral 1 MPE, the CCT developed cost and schedule estimates for option two “Status Quo Modified” described in the “No alternative to the system which will provide equal or greater capability at less cost” section of the report.

The CCT estimates the Increment IV Milestone C will occur in November 2011. The program’s FDD is estimated to occur in November 2012.

Table 1: MPS Increment IV Milestone Schedule

Schedule Milestones	2009 MAR Original Estimate	CCR Current Estimate
Funds First Obligated	May-06	May-06*
Milestone B ¹	Feb-08	Apr-08*
Milestone C	Jun-09	Nov-11
Initial Operational Capability	Mar-10	N/A
Full Deployment Decision (FDD)	Feb-10	Nov-12
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Full Deployment (FD)	N/A	TBD**

* Actual date achieved.

** Per USC 10, Chapter 144A, the FD date will be TBD until it is defined in the FDD Acquisition Decision Memorandum

(1) MS A was not conducted. Program initiation occurred at MS B

In support of the CCR, an Air Force Cost Analysis Improvement Group (AFCAIG) convened on 14 July 2010 and established a revised recommended Service Cost Position (SCP) reflecting the termination of TASM and development of E-3 and E-8. The AFCAIG recommended a total acquisition cost of \$277.9 million (Base Year 2007), which represents a reduction in total acquisition cost of approximately 10% or \$31.7 million. In addition, the AFCAIG recommended a life cycle cost of \$434.5 million (Base Year 2007). The recommended SCP life cycle cost is \$150.4 million less than the life cycle cost baselined in the 2009 MAR. The life cycle cost decrease is primarily a result of a lower estimate for Operations and Maintenance (O&M) costs as well as reductions in RDT&E and Procurement

due to the termination of TASM. The new SCP-based program cost estimate is reflected in Table 2 below.

Table 2: MPS Inc IV Estimated Costs

Appropriation/Category	BASE YEAR 2007 \$M	
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RDT&E	280.3	269.3
Procurement	29.3	8.6
MILCON		
Acquisition O&M		
Total Acquisition Cost	309.6	277.9
Operating and Support (O&S) Cost		
RDT&E		
Procurement		
MILPERS		
MILCON		
O&M	275.3	156.6
WCF-C		
WCF-O		
Total Operating and Support (O&S) Cost	275.3	156.6
Full Life Cycle		
Life Cycle Cost	584.9	434.5

The Director, Cost Assessment and Program Evaluation (CAPE) concurs that the new estimates of the costs, schedule, and performance parameters with respect to the program are reasonable.

**Mission Planning System Increment IV
Critical Program Change Certification
“The management structure for the program is adequate to manage and control
program costs”**

The CCT conducted an assessment of the MPS Increment IV program management structure. The CCT evaluation spanned eight areas: organizational structure, program management, contract management, cost management, schedule management, risk management, system performance, and program documentation. The CCT evaluated the detailed documentation provided by the MPS Program Management Office (PMO), Earned Value Management (EVM) data from the DoD EVM Central Repository, Air Force Monthly Acquisition Report data to include the Probability of Program Success (PoPS) data, Defense Acquisition Executive Summary (DAES) reports, conducted teleconferences with the PMO, and on-site visits with the PMO. Based on the CCT’s assessments, the current management structure of the MPS Increment IV program is adequate to manage and control costs.

During the analysis of the PMO’s management structure, concerns were identified with the PMO’s scheduling process. To improve the PMO’s process, the CCT recommends strengthening the integration of the government and contractor Integrated Master Schedules (IMs) by:

1. Creating a government IMS that adheres to the principles of the Data Item Description (DID) Number DI-MGMT-81650;
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Acronyms

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COTS	Commercial-Off-The-Shelf
DAES	Defense Acquisition Executive Summary
DAU	Defense Acquisition University
DCMA	Defense Contract Management Agency
DID	Data Item Description
DoD	Department of Defense
EVM	Earned Value Management
FA	Force Application
FCB	Functional Capabilities Board
FDD	Full Deployment Decision
FDDR	Full Deployment Decision Review
FOC	Full Operational Capability
FW	Framework
ICE	Independent Cost Estimate
IMS	Integrated Master Schedule
IOC	Initial Operational Capability
JROC	Joint Requirements Oversight Council
KPPs	Key Performance Parameters
MAIS	Major Automated Information System
MAR	MAIS Annual Report
MDA	Milestone Decision Authority
MPE	Mission Planning Environment
MPS	Mission Planning System
MQR	MAIS Quarterly Report
MS	Milestone
O&S	Operating and Support

PC	Personal Computer
PFPS	Portable Flight Planning Software
PMO	Program Management Office
PoPS	Probability of Program Success
RMD	Resource Management Directive
SAE	Service Acquisition Executive
SAF/AQX	Deputy Assistant Secretary of the Air Force for Acquisition Integration
SCP	Service Cost Position
SDC	Standard Desktop Configuration
TASM	Tanker, Airlift and Special Mission
UPC	Unique Planning Component

TAB

C



THE UNDER SECRETARY OF DEFENSE

**3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010**

**ACQUISITION,
TECHNOLOGY
AND LOGISTICS**

DEC 23 2010

The Honorable Norm Dicks
Chairman, Subcommittee on Defense
Committee on Appropriations
U.S. House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

In accordance with title 10 U.S.C 2445c, the Air Force Acquisition Executive, as the DoD Senior Official responsible for the Mission Planning System Increment IV acquisition program, has determined that a Critical Change in schedule has occurred. Enclosed is the Air Force Acquisition Executive's Certification letter and Critical Change Report as required by section 2445c.

A similar letter has been sent to the other congressional defense committees.

Sincerely,

A handwritten signature in black ink, appearing to read "Ashton B. Carter". The signature is fluid and cursive.

Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable C.W. Bill Young
Ranking Member



THE UNDER SECRETARY OF DEFENSE

**3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010**

**ACQUISITION,
TECHNOLOGY
AND LOGISTICS**

DEC 23 2010

The Honorable Ike Skelton
Chairman, Committee on Armed Services
U.S. House of Representatives
Washington, DC 20515

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Sincerely,

Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable Howard P. "Buck" McKeon
Ranking Member



THE UNDER SECRETARY OF DEFENSE

**3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010**

**ACQUISITION,
TECHNOLOGY
AND LOGISTICS**

DEC 23 2010

The Honorable David R. Obey
Chairman, Committee on Appropriations
U.S. House of Representatives
Washington, DC 20515

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Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable Jerry Lewis
Ranking Member



THE UNDER SECRETARY OF DEFENSE

**3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010**

**ACQUISITION,
TECHNOLOGY
AND LOGISTICS**

DEC 23 2010

The Honorable Daniel K. Inouye
Chairman, Committee on Appropriations
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

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Ashton B. Carter

Enclosure:
As stated

cc:
The Honorable Thad Cochran
Vice Chairman



DEPARTMENT OF THE AIR FORCE
WASHINGTON DC

OFFICE OF THE ASSISTANT SECRETARY

NOV 5 2010

The Honorable Daniel K. Inouye
Chairman
Committee on Appropriations
United States Senate
Washington, DC 20510

Dear Mr. Chairman

Pursuant to Title 10 United States Code, Section 2445c "Reports: quarterly reports; reports on program changes," I have conducted an evaluation of the Mission Planning System (MPS) Increment IV program. I certify that:

(1) the automated information system to be acquired under the program is essential to the efficient management of the Department of Defense;

(2) there is no alternative to the system which will provide equal or greater capability at less cost;

(3) the new estimates of the costs, schedule, and performance parameters with respect to the program and system have been determined, with the concurrence of the Director of Cost Assessment and Program Evaluation, to be reasonable; and

(4) the management structure for the program is adequate to manage and control program costs.

These certifications are based on an evaluation of the program as reflected in the Major Automated Information System (MAIS) Annual Report (MAR) dated December 31, 2008, which was submitted to Congress on June 18, 2009 and reflects the current approved budget position.

The MPS Increment IV Critical Change was primarily driven by two factors: (1) the complexity of developing, integrating and testing the Tanker, Airlift and Special Mission (TASM) Mission Planning Environment (MPE) comprised of eleven air platforms; and (2) unplanned development resulting from the Air Force Standard Desktop Configuration (SDC) policies requiring MPS software to be compatible with the Microsoft Vista operating system.

The MPS Increment IV program is a continuation of previous MPS increments. Several aircraft platforms, including the A-10, F-15, F-16, B-1B and RC-135 have successfully transitioned from legacy mission planning systems to the greater capability provided by the next-generation MPS. Prior to the critical change, the MPS Increment IV program was developing and fielding follow-on MPE capabilities for the A-10, F-15, F-16, F-22, B-1B and RC-135 platforms and was developing the initial MPEs for the TASM suite and the HH-60 helicopter. As a result of higher funding priorities, the Air Force restructured the program and terminated the TASM MPE. The MPS Increment IV program will continue developing and fielding the

follow-on MPEs for the A-10, F-15, F-16, F-22, B-1B and RC-135 platforms and complete the initial migration of the HH-60 platform to MPS. In addition, the Air Force will leverage development efforts completed under the TASM MPE to field the E-3 and E-8 aircraft platform MPEs for Air Combat Command (ACC). The new program estimates for cost and schedule reflect these changes.

I will continue to oversee this program to ensure that the anticipated cost, schedule, and performance objectives are achieved.

Similar letters have been sent to the Vice Chairman of your Committee and Chairmen and Ranking Minority Members of the other Congressional Defense Committees.

Sincerely,

A handwritten signature in black ink, appearing to read "David M. Van Buren". The signature is fluid and cursive, with the first name "David" and last name "Van Buren" clearly legible.

David M. Van Buren

Air Force Service Acquisition Executive

**MISSION PLANNING SYSTEMS (MPS)
INCREMENT IV**

**MAJOR AUTOMATED INFORMATION SYSTEM
(MAIS)**

CRITICAL CHANGE REPORT

October 20, 2010

**Mission Planning Systems Increment IV
Critical Program Change Certification
Executive Summary**

The Mission Planning System (MPS) Increment IV program is a Major Automated Information System (MAIS) Acquisition Category (ACAT) 1AM program. The MPS Increment IV program declared a Critical Change (Program Delay \geq 1 Year) against the Milestone C in the September 30, 2009 MAIS Quarterly Report (MQR). Additionally, the MPS Increment IV program will not achieve Full Deployment Decision (FDD) within five years of funds first obligated. Program documentation will be updated to reflect current guidance on FDD criteria. The MPS Increment IV Critical Change was primarily driven by two factors: (1) the complexity of developing, integrating and testing the Tanker, Airlift and Special Mission (TASM) Spiral 1 Mission Planning Environment (MPE) comprised of eleven air platforms; and (2) unplanned development resulting from the Air Force Standard Desktop Configuration (SDC) policies requiring MPS software to be compliant with the Microsoft Vista operating system.

As a result of higher funding priorities, the Air Force restructured the program and terminated the TASM Spiral 1 MPE. MPS Increment IV program will continue developing and fielding the follow-on MPEs for the A-10, F-15, F-16, F-22, B-1B and RC-135 platforms and complete the initial migration of the HH-60 platform to MPS. In addition, the Air Force will leverage E-3 and E-8 development efforts completed under the TASM Spiral 1 MPE to field independent E-3 and E-8 aircraft platform MPEs for Air Combat Command (ACC). Due to the maturity of the E-3 and E-8 MPEs and low complexity of the HH-60 MPE, this approach reflects the best combination of delivering operational capability with low program execution risk. The new program estimates for cost and schedule reflect these changes.

The senior official for the MPS Increment IV critical change, the Air Force Service Acquisition Executive, formed a Critical Change Team (CCT) to conduct an evaluation of the program in accordance with Title 10 USC, Chapter 144A, §2445c. In summary, the CCT finds:

1. The automated aviation MPS capability provided by the MPS Increment IV system is certified as essential to the efficient management of Department of Defense (DoD).
2. The new estimates of the costs, schedule, and performance parameters with respect to the restructured program and system have been determined, with the concurrence of the Director of Cost Assessment and Program Evaluation, to be reasonable.
3. There is no need to modify the program's Key Performance Parameters.
4. No cost breach of the MAIS Annual Report (MAR) Original Estimate or Acquisition Program Baseline (APB) has incurred as a result of the critical schedule change.
5. There is no alternative to the system which will provide equal or greater capability at less cost.
6. The current management structure of the MPS Increment IV program is adequate to manage and control costs.

**Mission Planning Systems Increment IV
Critical Program Change Certification
Introduction**

The MPS Increment IV program declared a Critical Schedule Change for Milestone C in the program's September 30, 2009 MAIS Quarterly Report. Additionally, the CCT currently estimates that FDD will occur more than five years after MPS Increment IV funds were first obligated. The program's "Original Estimate" milestone dates were established in the initial MAR dated December 31, 2008.

The program schedule delay was driven by two factors: (1) the complexity of developing, integrating and testing eleven TASM platforms in a single MPE; and (2) unplanned development resulting from the Air Force SDC policies requiring MPS software to be compliant with the Microsoft Vista operating system.

The Air Force established the MPS program to consolidate service mission planning programs into a single effort with the objective to migrate legacy planning systems -- Unix-MPS and the Personal Computer (PC)-based Portable Flight Planning Software (PFPS) -- into a single, multi-service, PC-based system. MPS provides mission planners with the capability to develop detailed flight plans incorporating threats, targets, terrain, weather and aircraft performance information for fixed-wing and rotary wing aircraft sorties. MPS also provides the operator with the capabilities to optimize and deconflict routes, visualize flight plans and to securely upload all relevant information to an aircraft's avionics system.

The MPS program develops and delivers MPEs for air platforms. MPEs are composed of hardware, software, data, training, and logistics items needed for aircraft and munitions mission planning functions. An MPE's software is composed of three layers: 1) a Unique Planning Component (UPC) that provides planning tools and displays unique to a specific platform(s); 2) Common Components (CCs) that provide planning tools utilized by two or more MPEs (i.e. weather planning, threat avoidance planning); and (3) a Framework (FW) layer that provides the software infrastructure utilized by all MPEs and controls the interface between the computer operating system, the UPC and CCs.

Previous to the critical schedule change, MPS Increment IV was to develop initial MPEs for the TASM Spiral 1 capability comprised of eleven air platforms, and the HH-60 aircraft. Additionally, MPS Increment IV was developing upgraded MPS versions for platforms that have transitioned in preceding increments to include the A-10, F-15, F-16, F-22, B-1B and RC-135 platforms.

As a result of the critical change and higher funding priorities, the Air Force restructured the program and terminated the TASM Spiral 1 MPE. The MPS Increment IV program will continue developing and fielding upgraded MPEs for the A-10, F-15, F-16, F-22, B-1B and RC-135 platforms and complete the initial migration of the HH-60 platform to MPS. In addition, the Air Force will leverage TASM Spiral 1 development efforts to field independent E-3 and E-8 aircraft platform MPEs for the ACC.

**Mission Planning System Increment IV
Critical Program Change Certification**

“The automated information system or information technology investment to be acquired under the program is essential to national security or the efficient management of the Department of Defense”

On March 9, 2010, the Force Application Functional Capabilities Board (FA FCB) reviewed the results of the MPS Increment IV critical change assessment to support the Senior Official’s written certification to Congress. The J8 Deputy Director for Requirements endorsed the FA FCB recommendation that the automated aviation mission planning capability provided by the MPS Increment IV system be certified as essential to the efficient management of DoD.

**Mission Planning System Increment IV
Critical Program Change Certification**

“There is no alternative to the system which will provide equal or greater capability at less cost”

The CCT found no alternative systems that could provide equal or greater capability at less cost. In accordance with Title 10 US Code, Chapter 144A, the CCT conducted two separate evaluations assessing (1) projected cost and schedule for completing the program based on reasonable modification of requirements; and (2) rough order of magnitude cost and schedule estimates for any reasonable alternative system or capability. The CCT conducted each evaluation against the program baselined in the December 31, 2008 and 2009 MAIS Annual Reports.

In the first evaluation, the CCT assessed five options for the modification of program requirements:

1. Modification of MPS Increment IV KPPs;
2. Removal of Non-TASM Spiral 1 MPEs from program;
3. Spiral delivery of TASM Spiral 1 MPE air platforms capability;
4. Removal of Vista/SDC migration requirement; and
5. Removal of TASM Spiral 1A from Increment IV

The CCT found none of the options to be advantageous.

#	Option	Capability to Warfighter	Cost Impact	Schedule Impact
1	Modification of KPPs	Less capability delivered	Increased Costs	Increased Schedule
2	Removal of non-TASM Spiral 1 MPEs from program	Less capability delivered	Deferred Costs	No impact on Milestone C and FDD schedule dates
3	Spiral delivery of TASM Spiral 1 MPE air platforms capability	Same capability delivered over longer time period	Increased Costs	Increased Schedule to meet FDD
4	Removal of Vista/SDC compatibility requirement	No capability delivered – system not authorized for use on Air Force networks	Deferred Costs	Increased Schedule to meet FDD
5	Removal of TASM Spiral 1A	Less capability delivered	Deferred Costs	No impact on Milestone C and FDD schedule dates

In the second evaluation, the CCT assessed the legacy PFPS and a Commercial-Off-The-Shelf (COTS) flight planning system. The CCT found that legacy PFPS does not

provide the full Communications, Navigation, Surveillance/Air Traffic Management (CNS/ATM) KPP or the Net Ready KPP capability, and is not compliant with the Microsoft Vista operating system. To modify the PFPS to the same capability level of MPS Increment IV, the Air Force would have to invest an additional \$117 million over the life span of the system for both development and sustainment efforts. The CCT did not find the COTS system a reasonable alternative because it does not contain the necessary capability to support military missions.

As a result of the Air Force decision to terminate the TASM MPE, the CCT conducted a third evaluation assessing three viable options. These options are:

1. Status Quo:
 - Terminate TASM and HH-60 MPEs
 - Platforms not migrated (TASM MPE platforms [C-5, C-17, C-130 E/H/J, KC-135, OC-135, NKC-135, KC-10, E-3 and E-8] and HH-60 MPE) remain on their existing legacy systems
 - Platforms already migrated (A-10, F-15, F-16, F-22, B-1 and RC-135) remain on MPS
2. Status Quo Modified:
 - Complete and migrate E-8, E-3 (previously part of TASM) and HH-60 MPEs to MPS
 - Platforms not migrated (C-5, C-17, C-130 E/H/J, KC-135, OC-135, NKC-135, and KC-10) remain on their existing legacy systems
 - Platforms already migrated (A-10, F-15, F-16, F-22, B-1 and RC-135) remain on MPS
3. Complete Originally Envisioned MPS Increment IV program as defined in the December 31, 2008 MAIS Annual report
 - Complete and migrate the TASM and HH-60 MPEs to MPS
 - Platforms already migrated (A-10, F-15, F-16, F-22, B-1 and RC-135) remain on MPS

Options	Achieves CDD	Delivers New Capability	Recovers Increment IV Schedule	Affordable	Risk
1) Status Quo	Yes	No	N/A	Yes	Low
2) Status Quo Modified	Yes	Yes	Yes	Yes	Low
3) Complete Originally Envisioned MPS Increment IV Program	Yes	Yes	No	No	High

The CCT, in coordination with the CAPE, determined that option two "Status Quo Modified" provides the best value to the government. The E-8 and E-3 MPEs are over 95% complete and represent low cost, schedule and technical risk to the execution of Increment

IV. Further, option two provides operational benefits to ACC in the areas of commonality (all ACC special mission platforms on MPS), efficiency (planning systems reduced from three to two simplifying operational planning and sustainment) and flight safety (increased automation reduces errors from manual entry of navigational data, e.g. terrain and structures). Operational benefits specific to the E-3, E-8 and HH-60 platforms include reduced planning times and improved situational awareness (adds electronic warfare threat analysis for Order of Battle and Route analysis).

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In accordance with the Air Force decision to cancel the TASM Spiral 1 MPE, the CCT developed cost and schedule estimates for option two “Status Quo Modified” described in the “No alternative to the system which will provide equal or greater capability at less cost” section of the report.

The CCT estimates the Increment IV Milestone C will occur in November 2011. The program’s FDD is estimated to occur in November 2012.

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* Actual date achieved.

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(1) MS A was not conducted. Program initiation occurred at MS B

In support of the CCR, an Air Force Cost Analysis Improvement Group (AFCAIG) convened on 14 July 2010 and established a revised recommended Service Cost Position (SCP) reflecting the termination of TASM and development of E-3 and E-8. The AFCAIG recommended a total acquisition cost of \$277.9 million (Base Year 2007), which represents a reduction in total acquisition cost of approximately 10% or \$31.7 million. In addition, the AFCAIG recommended a life cycle cost of \$434.5 million (Base Year 2007). The recommended SCP life cycle cost is \$150.4 million less than the life cycle cost baselined in the 2009 MAR. The life cycle cost decrease is primarily a result of a lower estimate for Operations and Maintenance (O&M) costs as well as reductions in RDT&E and Procurement

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Total Operating and Support (O&S) Cost	275.3	156.6
Life Cycle Cost	584.9	434.5

The Director, Cost Assessment and Program Evaluation (CAPE) concurs that the new estimates of the costs, schedule, and performance parameters with respect to the program are reasonable.

**Mission Planning System Increment IV
Critical Program Change Certification**
**“The management structure for the program is adequate to manage and control
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The CCT conducted an assessment of the MPS Increment IV program management structure. The CCT evaluation spanned eight areas: organizational structure, program management, contract management, cost management, schedule management, risk management, system performance, and program documentation. The CCT evaluated the detailed documentation provided by the MPS Program Management Office (PMO), Earned Value Management (EVM) data from the DoD EVM Central Repository, Air Force Monthly Acquisition Report data to include the Probability of Program Success (PoPS) data, Defense Acquisition Executive Summary (DAES) reports, conducted teleconferences with the PMO, and on-site visits with the PMO. Based on the CCT’s assessments, the current management structure of the MPS Increment IV program is adequate to manage and control costs.

During the analysis of the PMO’s management structure, concerns were identified with the PMO’s scheduling process. To improve the PMO’s process, the CCT recommends strengthening the integration of the government and contractor Integrated Master Schedules (IMSs) by:

1. Creating a government IMS that adheres to the principles of the Data Item Description (DID) Number DI-MGMT-81650;
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1. Providing all current and newly hired financial and program managers with the training and tools required to maintain robust EVM and program schedule processes.
2. Documenting the EVM process in the PMO’s Process Asset Library with support from the Electronic System Center (ESC) EVM focal point and Air Force EVM Lead (SAF/AQX).

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COTS	Commercial-Off-The-Shelf
DAES	Defense Acquisition Executive Summary
DAU	Defense Acquisition University
DCMA	Defense Contract Management Agency
DID	Data Item Description
DoD	Department of Defense
EVM	Earned Value Management
FA	Force Application
FCB	Functional Capabilities Board
FDD	Full Deployment Decision
FDDR	Full Deployment Decision Review
FOC	Full Operational Capability
FW	Framework
ICE	Independent Cost Estimate
IMS	Integrated Master Schedule
IOC	Initial Operational Capability
JROC	Joint Requirements Oversight Council
KPPs	Key Performance Parameters
MAIS	Major Automated Information System
MAR	MAIS Annual Report
MDA	Milestone Decision Authority
MPE	Mission Planning Environment
MPS	Mission Planning System
MQR	MAIS Quarterly Report
MS	Milestone
O&S	Operating and Support

PC	Personal Computer
PFPS	Portable Flight Planning Software
PMO	Program Management Office
PoPS	Probability of Program Success
RMD	Resource Management Directive
SAE	Service Acquisition Executive
SAF/AQX	Deputy Assistant Secretary of the Air Force for Acquisition Integration
SCP	Service Cost Position
SDC	Standard Desktop Configuration
TASM	Tanker, Airlift and Special Mission
UPC	Unique Planning Component

TAB

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OFFICE OF THE SECRETARY OF DEFENSE

1800 DEFENSE PENTAGON
WASHINGTON, D.C. 20301-1800

OCT 27 2010



**COST ASSESSMENT AND
PROGRAM EVALUATION**

**MEMORANDUM FOR ASSISTANT SECRETARY OF THE AIR FORCE FOR
ACQUISITION**

**SUBJECT: Concurrence with Cost, Schedule, and Performance Parameters for the Mission
Planning Systems (MPS) Increment IV Critical Change**

On September 30, 2009, the MPS Increment IV program reported a schedule delay of greater than one year for Milestone C, placing the program in a critical change status in accordance with the requirements of Section 2445c of Title 10, United States Code. In accordance with the Weapon Systems Acquisition Reform Act of 2009, CAPE is required to perform an Independent Cost Estimate (ICE) and concur that the new estimates of the cost, schedule, and performance parameters for the program are reasonable.

CAPE has completed an Independent Cost Estimate (ICE) on the MPS Increment IV program. As a result of this estimate and the CAPE review of the program, I concur that the new estimates of the cost, schedule, and performance parameters for the MPS Increment IV program, as reflected in the critical change report dated October 20, 2010, are reasonable.

A handwritten signature in black ink, appearing to read "Christine H. Fox".

Christine H. Fox
Director

cc: Under Secretary of Defense (AT&L)

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THE JOINT STAFF
WASHINGTON, D.C. 20318-9999

MEMORANDUM FOR: Assistant Secretary of the Air Force for Acquisitions

Subject: Mission Planning System Increment IV

1. On 9 Mar 10, the Force Application Functional Capabilities Board (FA FCB) reviewed the results of the Mission Planning System Increment IV (MPS Inc. IV) Critical Change assessment to support the Senior Official's written certification to Congress. I endorse the FA FCB recommendation that the automated aviation mission planning capability provided by the MPS Inc. IV system be certified as essential to the efficient management of the Department of Defense.

A handwritten signature in cursive script, reading "Michael T. Harrison, Sr.", is positioned above the typed name.

MICHAEL T. HARRISON, SR.
Major General, USA
Deputy Director for
Requirements, J-8

TAB

F

10 U.S.C. Ch 144A

“MAJOR AUTOMATED INFORMATION SYSTEM PROGRAMS”

- as enacted in §816 of the FY07 National Defense Authorization Act (NDAA),
 - amended by §812 of the FY09 NDAA,
 - amended by §101(d)(6) of the Weapon Systems Acquisition Reform Act of 2009,
 - amended by §§817 and 841 of the FY10 NDAA, and
 - amended by §805 of the FY11 NDAA.

CHAPTER 144A—MAJOR AUTOMATED INFORMATION SYSTEM PROGRAMS

Sec.

2445a. Definitions

2445b. Cost, schedule, and performance information.

2445c. Reports: quarterly reports; reports on program changes.

2445d. Construction with other reporting requirements.

§ 2445a. Definitions

(a) **MAJOR AUTOMATED INFORMATION SYSTEM PROGRAM.**—In this chapter, the term ‘major automated information system program’ means a Department of Defense program for the acquisition of an automated information system (either as a product or a service) if—

(1) the program is designated by the Secretary of Defense, or a designee of the Secretary, as a major automated information system program; or

(2) the dollar value of the program is estimated to exceed—

(A) \$32,000,000 in fiscal year 2000 constant dollars for all program costs in a single fiscal year;

(B) \$126,000,000 in fiscal year 2000 constant dollars for all program acquisition costs for the entire program; or

(C) \$378,000,000 in fiscal year 2000 constant dollars for the total life-cycle costs of the program (including operation and maintenance costs).

(b) **ADJUSTMENT.**—The Secretary of Defense may adjust the amounts (and base fiscal year) set forth in subsection (a) on the basis of Department of Defense escalation rates. An adjustment under this subsection shall be effective after the Secretary transmits a written notification of the adjustment to the congressional defense committees.

(c) **INCREMENTS.**—In the event any increment of a major automated information system program separately meets the requirements for treatment as a major automated information system program, the provisions of this chapter shall apply to such increment as well as to the overall major automated information system program of which such increment is a part.

(d) OTHER MAJOR INFORMATION TECHNOLOGY INVESTMENT PROGRAM.—In this chapter, the term ‘other major information technology investment program’ means the following:

(1) An investment that is designated by the Secretary of Defense, or a designee of the Secretary, as a ‘pre-Major Automated Information System’ or ‘pre-MAIS’ program.

(2) Any other investment in automated information system products or services that is expected to exceed the thresholds established in subsection (a), as adjusted under subsection (b), but is not considered to be a major automated information system program because a formal acquisition decision has not yet been made with respect to such investment.

(e) FULL DEPLOYMENT DECISION. —In this chapter, the term ‘full deployment decision’ means, with respect to a major automated information system program, the final decision made by the Milestone Decision Authority authorizing an increment of the program to deploy software for operational use.

(f) FULL DEPLOYMENT. —In this chapter, the term ‘full deployment’ means, with respect to a major automated information system program, the fielding of an increment of the program in accordance with the terms of a full deployment decision.

§ 2445b. Cost, schedule, and performance information

(a) SUBMITTAL OF COST, SCHEDULE, AND PERFORMANCE INFORMATION.—The Secretary of Defense shall submit to Congress each calendar year, not later than 45 days after the President submits to Congress the budget for a fiscal year under section 1105 of title 31, budget justification documents regarding cost, schedule, and performance for each major automated information system program and each other major information technology investment program for which funds are requested by the President in the budget.

(b) ELEMENTS REGARDING MAJOR AUTOMATED INFORMATION SYSTEM PROGRAMS.—The documents submitted under subsection (a) with respect to a major automated information system program shall include detailed and summarized information with respect to the automated information system to be acquired under the program, and shall specifically include each of the following:

(1) The development schedule, including major milestones.

(2) The implementation schedule, including estimates of milestone dates, full deployment decision and full deployment.

(3) Estimates of development costs and full life-cycle costs.

(4) A summary of key performance parameters.

(5) For each major automated information system program for which such information has not been provided in a previous annual report:

(A) a description of the business case analysis (if any) that has been prepared for the program and key functional requirements for the program;

(B) a description of the analysis of alternatives conducted with regard to the program;

(C) an assessment of the extent to which the program, or portions of the program, have technical requirements of sufficient clarity that the program, or portions of the program, may be feasibly procured under firm, fixed-price contracts;

(D) the most recent independent cost estimate or cost analysis for the program provided by the Director of Cost Assessment and Program Evaluation in accordance with section 2334(a)(6) of this title¹;

(E) a certification by a Department of Defense acquisition official with responsibility for the program that all technical and business requirements have been reviewed and validated to ensure alignment with the business case; and

(F) an explanation of the basis for the certification described in subparagraph (E).

(6) For each major automated information system program for which the information required under paragraph (5) has been provided in a previous annual report, a summary of any significant changes to the information previously provided.

(c) BASELINE.—(1) For purposes of this chapter, the initial submittal to Congress of the documents required by subsection (a) with respect to a major automated information system program shall constitute the original estimate or information originally submitted on such program for purposes of the reports and determinations on program changes in section 2445c of this title.

(2) An adjustment or revision of the original estimate or information originally submitted on a program may be treated as the original estimate or information originally submitted on the program if the adjustment or revision is the result of a critical change in the program covered by section 2445c(d) of this title.

(3) In the event of an adjustment or revision to the original estimate or information originally submitted on a program under paragraph (2), the Secretary of Defense shall include in the next budget justification documents submitted under subsection (a) after such adjustment or revision a notification to the congressional defense committees of such adjustment or revision, together with the reasons for such adjustment or revision.

(d) ELEMENTS REGARDING OTHER MAJOR INFORMATION TECHNOLOGY INVESTMENT PROGRAMS.—With respect to each other major information technology investment program, the information required by subsection (a) may be provided in the format that is most appropriate to the current status of the program.

¹ “§ 2334. Independent cost estimation and cost analysis

“(a) IN GENERAL.—The Director of Cost Assessment and Program Evaluation shall ensure that the cost estimation and cost analysis processes of the Department of Defense provide accurate information and realistic estimates of cost for the acquisition programs of the Department of Defense. In carrying out that responsibility, the Director shall—...

“(6) conduct independent cost estimates and cost analyses for major defense acquisition programs and major automated information system programs for which the Under Secretary of Defense for Acquisition, Technology, and Logistics is the Milestone Decision Authority—

“(A) in advance of—...

“(iv) any report under section 2445c(f) of this title; and

“(B) at any other time considered appropriate by the Director or upon the request of the Under Secretary of Defense for Acquisition, Technology, and Logistics....”

§ 2445c. Reports: quarterly reports; reports on program changes

(a) QUARTERLY REPORTS BY PROGRAM MANAGERS.—The program manager of a major automated information system program or other major information technology investment program shall, on a quarterly basis, submit to the senior Department of Defense official responsible for the program a written report identifying any variance in the projected development schedule, implementation schedule, life-cycle costs, or key performance parameters for the major automated information system or information technology investment to be acquired under the program from such information as originally submitted to Congress under section 2445b of this title.

(b) SENIOR OFFICIALS RESPONSIBLE FOR PROGRAMS.—For purposes of this section, the senior Department of Defense official responsible for a major automated information system program or other major information technology investment program is—

(1) in the case of an automated information system or information technology investment to be acquired for a military department, the senior acquisition executive for the military department; or

(2) in the case of any other automated information system or information technology investment to be acquired for the Department of Defense or any component of the Department of Defense, the Under Secretary of Defense for Acquisition, Technology, and Logistics.

(c) REPORT ON SIGNIFICANT CHANGES IN PROGRAM.—

(1) IN GENERAL.—If, based on a quarterly report submitted by the program manager of a major automated information system program pursuant to subsection (a), the senior Department of Defense official responsible for the program makes a determination described in paragraph (2), the official shall, not later than 45 days after receiving such report, notify the congressional defense committees in writing of such determination.

(2) COVERED DETERMINATION.—A determination described in this paragraph with respect to a major automated information system program is a determination that—

(A) there has been a schedule change that will cause a delay of more than six months but less than a year in any program schedule milestone or significant event from the schedule originally submitted to Congress under paragraph (1) or (2) of section 2445b(b) of this title;

(B) the estimated program development cost or full life-cycle cost for the program has increased by at least 15 percent, but less than 25 percent, over the original estimate submitted to Congress under paragraph (3) of section 2445b(b) of this title; or

(C) there has been a significant, adverse change in the expected performance of the major automated information system to be acquired under the program from the parameters originally submitted to Congress under paragraph (4) of section 2445b(b) of this title.

(d) REPORT ON CRITICAL CHANGES IN PROGRAM.—

(1) IN GENERAL.—If, based on a quarterly report submitted by the program manager of a major automated information system program or other major information technology

investment program pursuant to subsection (a), the senior Department of Defense official responsible for the program makes a determination described in paragraph (2), the official shall, not later than 60 days after receiving such report—

(A) carry out an evaluation of the program under subsection (e); and

(B) submit, through the Secretary of Defense, to the congressional defense committees a report meeting the requirements of subsection (f).

(2) COVERED DETERMINATION.—A determination described in this paragraph with respect to a major automated information system program or other major information technology investment program is a determination that—

(A) the automated information system or information technology investment failed to achieve a full deployment decision within five years after funds were first obligated for the program;

(B) there has been a schedule change that will cause a delay of one year or more in any program schedule milestone or significant event from the schedule originally submitted to Congress under paragraph (1) or (2) of section 2445b(b) of this title or section 2445b(d) of this title, as applicable;

(C) the estimated program development cost or full life-cycle cost for the program has increased by 25 percent or more over the original estimate submitted to Congress under paragraph (3) of section 2445b(b) of this title or section 2445b(d) of this title, as applicable; or

(D) there has been a change in the expected performance of the major automated information system or major information technology investment to be acquired under the program that will undermine the ability of the system to perform the functions anticipated at the time information on the program was originally submitted to Congress under section 2445b(b) of this title or section 2445b(d) of this title, as applicable.

(e) PROGRAM EVALUATION.—The evaluation of a major automated information system program or other major information technology investment program conducted under this subsection for purposes of subsection (d)(1)(A) shall include an assessment of—

(1) the projected cost and schedule for completing the program if current requirements are not modified;

(2) the projected cost and schedule for completing the program based on reasonable modification of such requirements; and

(3) the rough order of magnitude of the cost and schedule for any reasonable alternative system or capability.

(f) REPORT ON CRITICAL PROGRAM CHANGES.—A report on a major automated information system program or other major information technology investment program conducted under this subsection for purposes of subsection (d)(1)(B) shall include a written certification (with supporting explanation) stating that—

(1) the automated information system or information technology investment to be acquired under the program is essential to the national security or to the efficient management of the Department of Defense;

(2) there is no alternative to the system **or information technology investment** which will provide equal or greater capability at less cost;

(3) the new estimates of the costs, schedule, and performance parameters with respect to the program and system **or information technology investment, as applicable, have been determined, with the concurrence of the Director of Cost Assessment and Program Evaluation, to be reasonable;** and

(4) the management structure for the program is adequate to manage and control program costs.

(g) PROHIBITION ON OBLIGATION OF FUNDS.—

(1) If the determination of a critical change to a program is made by the senior Department official responsible for the program under subsection (d)(2) and a report is not submitted to Congress within the 60-day period provided by subsection (d)(1), appropriated funds may not be obligated for any major contract under the program.

(2) The prohibition on the obligation of funds for a program under paragraph (1) shall cease to apply on the date on which Congress has received a report in compliance with the requirements of subsection (d)(2).

§ 2445d. Construction with other reporting requirements

In the case of a major automated information system program covered by this chapter that is also treatable as a major defense acquisition program for which reports would be required under chapter 144 of this title, the Secretary may designate the program to be treated only as a major automated information system program covered by this chapter or to be treated only as a major defense acquisition program covered by such chapter 144.

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**Office of the Assistant Secretary of Defense
Networks and Information Integration
Coordination Sheet**

Action Coordination MPS Inc IV CCR	Action Officer bob.ramsey@osd.mil 703-602-2720 ext 153
Comments/coordination due back (via scan/email/fax) by 22 Aug 2011	

Organization	Name	Concur/ Non-concur	Signature	Date
OASD(LA)	Brian Russell	Concur w/comment	Coordination in SACCP	19Aug11
OCG	Sam Novello	Concur	Via email	26Aug11
OUSD(AT&L)/ARA	Dr. Nancy Spruill	Concur	Coordination in SACCP	26Aug11
WHS Security	Beth Fitzgibbons	Concur	Coordination in SACCP	25Aug11
Director, C2 Programs & Policy	CAPT Tom Fitzgerald	Concur	Coordination in SACCP	26Aug11
Director, Acquisition Directorate	Marc Turner	Concur	Verbal concur	26Aug11
CRA	Chris Condon	Concur: Agree with OASD(LA) comments	Verbal concur via Jane Amesse	24Aug11

Comments (if any):

This Critical Change Report is an “echo” of a Critical Change Report submitted in Dec 2010. The PMO has followed our guidance (published in the Defense Acquisition Guidebook) by anticipating this “echo” in the first Report and is resending that Report with a statement that it remains valid.

DAG 10.9.2.5.2.1. Failed to Achieve a Full Deployment Decision (FDD). “... If, however, any other Critical Change is reported in advance of the 5-year point and it is expected that FDD will not occur within the 5-year threshold, include an additional determination of the 5-year-to-FDD breach in the evaluation and report to Congress. When the 5-year point arrives, re-send the report to Congress with a transmittal letter indicating that “the previously reported certifications were meant to apply now. ...”

Compliance Matrix
Report to Congress – Air Force Mission Planning System Increment IV
(MPS Inc IV) Critical Change Report (CCR)
in compliance with 10 U.S.C 2445c

Requirement	Report Contents
Due date – August 30, 2011	This Critical Change Report is required to be delivered to Congress within 60 days of the MAIS Quarterly Report of the Critical Change
<p>As Senior Official, the AFAE made the four required certifications:</p> <p>(1) the automated information system to be acquired under the program is essential to the efficient management of the Department of Defense;</p> <p>(2) there is no alternative to the system which will provide equal or greater capability at less cost;</p> <p>(3) the new estimates of the costs, schedule, and performance parameters with respect to the program and system have been determined, with the concurrence of the Director of Cost Assessment and Program Evaluation, to be reasonable; and</p> <p>(4) the management structure for the program is adequate to manage and control program costs.</p>	Page 1 of the four letters to the congressional defense committees.
The automated information system or information technology investment to be acquired under the program is essential to national security or the efficient management of the Department of Defense.	Page 3 of the CCR.
There is no alternative to the system which will provide equal or greater capability at less cost.	Page 4 of the CCR.

The new estimates of the costs, schedule, and performance parameters with respect to the program and system have been determined, with the concurrence of the Director of Cost Assessment and Program Evaluation, to be reasonable.	Page 7 of the CCR.
The management structure for the program is adequate to manage and control program costs.	Page 9 of the CCR.
Does the report meet the reporting requirement?	The MPS Inc IV CCR meets the reporting requirement of 10 U.S.C. 2445c.
Did anyone provide a non-concur?	There were no non-concurs. However DoD OGC did not respond to SACCP, email, and telephone request for coordination.

Gonzalez, Gregory B COL OSD ATL

From: May, William, CIV, DoD CIO
Sent: Tuesday, August 30, 2011 4:39 PM
To: Rodgers, Philip, SES, OSD-ATL; Gonzalez, Gregory B COL OSD ATL
Cc: May, William, CIV, DoD CIO
Subject: FW: IMPORTANT: Need Current Status of MPS Inc IV CCR Package

Classification: UNCLASSIFIED

Colleagues

Provided below is additional clarification on the MPS Inc IV CCR package urgency. Maj Fuller works for Michele Hopkins in SAF/AQII.

V/R,

**Bill

William K. May
Senior Acquisition Analyst
DoD CIO/Acquisition Directorate
Suite 310, 241 18th Street, Arlington, VA 22202
Voice: 703-602-2720, x106 (DSN 332)
Fax: 703-602-2949 (please call before sending)
Email: William.May@osd.mil
"HOW CAN WE MAKE THIS WORK FOR EVERYONE?"

-----Original Message-----

From: Fuller, Charise J Maj MIL USAF SAF/AQII [mailto:Charise.Fuller@pentagon.af.mil]
Sent: Tuesday, August 30, 2011 4:37 PM
To: May, William, CIV, DoD CIO
Cc: Hopkins, Michelle D CIV USAF SAF/AQII; Nicklas, Andrew M Lt Col MIL USAF SAF/AQII; SMALL, CALVIN CTR USAF SAF/AQII 3rd Floor Suite 400; Cenzano, Justin T Maj MIL USAF SAF/AQXR
Subject: RE: IMPORTANT: Need Current Status of MPS Inc IV CCR Package

Mr. May,

As I stated on the phone, the program office was able to get the F-22 MPS contract awarded today which eliminated the immediate impact to the program if obligation authority is lost.

However, I would point out that this is the second time for this one program that we the DoD have been unable to complete this process in the 60-days allotted by Congress. In this particular case it is a re-transmittal of the same report we submitted back in December so this should be an easy one to complete. We have provided numerous updates to the Congressional Staffers on the status of MPS and assured them that the program is back on track and this second critical change would be completed on time. From an AF and DoD credibility standpoint the sooner we can get this done the better.

Thanks for your assistance in staffing this package through OSD.

v/r

Maj Fuller

-----Original Message-----

From: May, William, CIV, DoD CIO [mailto:William.May@osd.mil]

Gonzalez, Gregory B COL OSD ATL

From: May, William, CIV, DoD CIO
Sent: Tuesday, August 30, 2011 4:35 PM
To: Rodgers, Philip, SES, OSD-ATL; Gonzalez, Gregory B COL OSD ATL
Cc: May, William, CIV, DoD CIO; Ramsey, Bob CIV DoD CIO
Subject: FW: Impact on MPS Inc IV CCR Package
Signed By: william.may@osd.mil

Classification: UNCLASSIFIED

Colleagues

Provided below is the AF email addressing the MPS Inc IV CCR package urgency. I just talked with Michele Hopkins SAF/AQII, (703-254-2570) who told me staffers are pinging her about the CCR. I also heard Michele say that if the signature is delayed "we'll just have to live with it."

If you need to contact me please call my BB at 571-232-2708.

V/R,

**Bill

William K. May
Senior Acquisition Analyst
DoD CIO/Acquisition Directorate
Suite 310, 241 18th Street, Arlington, VA 22202
Voice: 703-602-2720, x106 (DSN 332)
Fax: 703-602-2949 (please call before sending)
Email: William.May@osd.mil
"HOW CAN WE MAKE THIS WORK FOR EVERYONE?"

-----Original Message-----

From: Cenzano, Justin T Maj MIL USAF SAF/AQXR [<mailto:Justin.Cenzano@pentagon.af.mil>]
Sent: Tuesday, August 30, 2011 4:10 PM
To: May, William, CIV, DoD CIO
Cc: Hopkins, Michelle D CIV USAF SAF/AQII
Subject: Impact on MPS Inc IV CCR Package

Sir,

I spoke with Michelle Hopkins, SAF/AQII, (703-254-2570) regarding your request for the impact on loss of obligation ability. She stated that a contract was awarded yesterday to migrate the legacy Mission Planning System (MPS) for the F-22 platform to the modern PC-based MPS Inc IV MPS. This work cannot commence until the program has the ability to obligate funds. Thank you.

JUSTIN T. CENZANO, Maj, USAF

Reports & Reviews, SAF/AQXRR

SACCP COVER SHEET
UNCLASSIFIED

PRIORITY High	SUSPENSE DATE 19 Aug 2011	CORRESPONDENCE DATE 16 Aug 2011	CONTROL NUMBER NII000921-11
REQUEST TYPE Congressional Reports	RESPONSE TYPE For Appropriate Action		
ORIGINATOR Acquisition Directorate/ Bob Ramsey			
RECIPIENT DASD(C3S2)			

SUBJECT
Air Force Mission Planning Systems Increment IV Critical Change Report

COMMENTS
EBG Dr. Spull reviewed via SACCP and concurs on 8/30
8/30

cond



UNCLASSIFIED SYSTEM

Office of the Under Secretary of Defense for
Acquisition, Technology and Logistics
Correspondence Cover Sheet

Tasked Org: *NII* Action Type: *Action* Action Number: *NII 000921*

Subject: *AF Mission Planning Systems Increment IV critical change Request*

	Initials	Date	Comments
<input type="checkbox"/> Dr. Carter:	_____	_____	
<input checked="" type="checkbox"/> <i>R/S</i> Mr. Kendall:	<i>[Signature]</i>	<i>8/31/11</i>	<i>OK</i>
<input type="checkbox"/> USD MA:	_____	_____	
<input checked="" type="checkbox"/> <i>R</i> PDUSD MA:	<i>DAH</i>	<i>8/31</i>	<i>Response letter is confusing. Use same words as 23 Dec 10 USD (ATL) Letter + New CCR para.</i>

8/31- Lw for PD signature

<input type="checkbox"/> DDES:	_____	_____
<input type="checkbox"/> Editor:	_____	_____

Notes:

Disposition Instructions:

THIS TASK RESIDES ON THE **NIPRNET** VERSION OF SACCP.

UNCLASSIFIED SYSTEM