





January 8, 2002

The Honorable Richard B. Chency President of the Senate Washington, D.C. 20510

Dear Mr. President:

Sections 1041 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

Sincerely,

Red Ryse

Attachment

1. Nuclear Posture Review (CATA DAGE)











January 8, 2002

The Honorable J. Dennis Hastert Speaker of the House U.S. House of Representatives H 232 The Capitol Washington, D.C. 20515-6501

Dear Mr. Speaker:

Sections 1041 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

Sincerely,

Rul Ryse

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1. Nuclear Posture Review (1)



Attachment













January 8, 2002

The Honorable Robert Byrd Chairman Committee on Appropriations United States Senate S-128 The Capitol Washington, D.C. 20510-6025

Dear Mr. Chairman:

Sections 1041 of the Floyd D. Spence National Defanse Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defanse Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

Sincerely,

Rahye

Attachment

1. Nuclear Posture Review (SHTRDMAT)

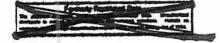
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The Honorable Ted Stevens Ranking Member



SECRET-FRO-ME









Jamery 8, 2002

The Honorable Tom Deschle Majority Leader United States Senate S-221 TheCapitol Washington, D.C. 20510-7020

Dear Mr. Loader.

Sections 1041 of the Floyd D. Spance National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

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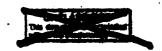
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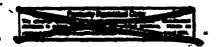
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1. Nuclear Postere Review (CATEDIAID)

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BEGRET -- PRO-NI-









January 8, 2002

The Honorable Trent Lott Minority Leader United States Senate S-230 The Capitol Washington, D.C. 20510-7010

Dear Mr. Leadar:

Sections 1041 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

Sincerely.

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Attachment

1. Nuclear Posture Review (SAFED/AIR)



- TH-CET-TROOPS









January 8, 2002

The Honorable Richard K. Armey Majority Leader U.S. House of Representatives H329 The Capitol Washington, D.C. 20515-6502

Dear Dick:

Sections 1041 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

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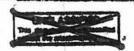
Rul Ryse

Attachment

1. Nuclear Posture Review (CATRIDANIA)



CEORET FRO ME









January 8, 2002

The Honorable Richard A. Gephardt Minority Leader U.S. House of Representatives H 204 The Capitol Washington, D.C. 20515-6537

Dear Mr. Leader:

Sections 1041 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

Sincerely.

RARJU

Attachment

1. Nuclear Posture Review (C//PRD//T/)

-GUGRET-PRO-NE









January 8, 2002

The Honorable Carl Levin
Chairman
Committee on Armed Services
United States Senate
228 Senate Russell Office Building
Washington, D.C. 20510-6050

Dear Mr. Chairman:

Sections 1041 of the Floyd D. Spence National Defease Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defease Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Souretary of Energy, constitutes my response to both requirements.

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1. Nuclear Posture Review (EATREANT)

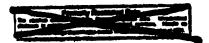
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The Honorable John W. Warner Ranking Member













January 8, 2002

The Honorable Daniel Inouye Chairman Subcommittee on Defense Committee on Appropriations United States Senate 119 Senate Dirksen Office Building Washington, D.C. 20510-6028

Dear Mr. Chairman:

Sections 1041 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

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1. Nuclear Posture Review (S/FRD/ATT)

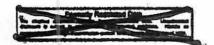
CC:

The Honomble Ted Stevens Ranking Member



COORST - PRO-NF









January 8, 2002

The Honorable Jerry Lewis Chairman Subcommittee on Defense Committee on Appropriations U.S. House of Representatives H-149 The Capitol Washington, D.C. 20515-6018

Dear Mr. Chairman:

Sections 1041 of the Floyd D. Spence National Defence Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defence Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

Sincerely,

RARM

Attachment

1. Nuclear Posture Review (S/FRD/ATE)

cc:

The Honorable John P. Murtha Ranking Member

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CHORET-FRO NE







January 8, 2002

The Honorable Bob Stump
Chairman
Committee on Armed Services
U.S. House of Representatives
2120 Rayburn House Office Building
Washington, D.C. 20515-6035

Deer Mr. Chairman:

Sections 1041 of the Floyd D. Spence National Defence Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

Sincerely,

Ral-yu

Attachment

1. Nuclear Posture Review (SWPREMAR)

CC:

The Honorable Ike Skelton Ranking Member











January 8, 2002

The Honorable Sonny Callahan
Chairman
Subcommittee on Energy and Water Development
Committee on Appropriations
U.S. House of Representatives
2362 Rayburn House Office Building
Washington, D.C. 20515-6020

Dear Mr. Chairman:

Sections 1041 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

Sincerely,

Rul Ryse

Attachment

1. Nuclear Posture Review (SHTREMAT)

CC:

The Honorable Peter J. Visclosky Ranking Member



BORET-FRO-NE









January 8, 2002

The Honorable Harry Reid Chairman Subcommittee on Energy and Water Development Committee on Appropriations United States Senate 127 Senate Dirkson Office Building Washington, D.C. 20510-6030

Dear Mr. Chairman:

Sections 1041 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

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RAR-14

Attachment

1. Nuclear Posture Review

The Honorable V. Pete Domenici Ranking Member













January 8, 2002

The Honorable C.W. Bill Young Chairman
Committee on Appropriations
U.S. House of Representatives
H218 The Capitol
Washington, D.C. 20515-6015

Dear Mr. Chairman:

Sections 1041 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001 (Public Law 106-398), as amended by Section 1033 of the National Defense Authorization Act for Fiscal Year 2002 (Public Law 107-107), requires me to report on the nuclear posture of the United States. Additionally, Section 1042 of Public Law 106-398 requires me to report on sustainment and modernization of U.S. strategic nuclear forces. The attached report, prepared in consultation with the Secretary of Energy, constitutes my response to both requirements.

Sincerely,

RAR-JU

Attachment

1. Nuclear Posture Review (C/FRD/ATE)

cc:

The Honorable David Obey Ranking Member







TAB B





Nuclear Posture Review

Report to the Congress in Response to Sections 1041 (as Amended) and 1042 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001, PL 106-398

December 2001



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Classified by Multiple Declassify On: X4

Table of Contents

Forward		
Ľ	Introduction	1
п.	A New Triad for a New Era	5
M.	Creating the New Triad	23
IV.	U.S. Nuclear Platforms and Capabilities	39
V.	Nuclear Reductions and Implications for Arms Control	5 1

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Nuclear Posture Review Report

Foreword

The Congress directed the Defense Department to conduct a comprehensive Nuclear Posture Review to lay out the direction for American nuclear forces over the next five to ten years. The Department has completed that review and prepared the attached report.

Early on, we recognized that the new security environment demanded that the Department go beyond the Congressional mandate in developing a strategic posture for the 21st century. Precident Bush had already directed the Defence Department to transform America's military and prepare it for the new, unpredictable world in which we will be living. The result of his direction is the Quadrennial Defence Review (QDR). Building on the QDR, this Nuclear Posture Review puts in motion a major change in our approach to the role of nuclear offensive forces in our deterrent strategy and presents the blueprint for transforming our strategic posture.

This report establishes a New Triad, composed of:

- Offensive strike systems (both nuclear and non-nuclear);
- Defenses (both active and passive); and
- A revitalized defense infrastructure that will provide new capabilities in a timely fashion to meet emerging threats.

This New Triad is bound together by enhanced command and control (C2) and intelligence systems.

The establishment of this New Triad can both reduce our dependence on nuclear weapons and improve our ability to deter attack in the face of proliferating WMD capabilities in two ways:

- The addition of defenses (along with the prospects for timely adjustments to force capabilities and enhanced C2 and intelligence systems) means that the U.S. will no longer be as heavily dependent on offensive strike forces to enforce deterrence as it was during the Cold War.
- The addition of non-suclear strike forces-including conventional strike and
 information operations-means that the U.S. will be less dependent than it
 has been in the past on nuclear forces to provide its offensive deservant
 capability.

The combination of new capabilities that make up the New Triad reduce the risk to the nation as it draws its nuclear forces toward the goal of 1,700–2,200 operationally

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deployed strategic nuclear warhands announced by President Bush on November 13,

The following is a summary of the highlights in this report.

beyond those required by the START Trenty. At the same time, plans and fundi changes had been made to the size or composition of the strategic nucle Union, planning for the employment of U.S. nuclear forces has undergone only modest revision, despite the new relationship betwoen the U.S. and Russin. Few First and foremost, the Nuclear Posture Review puts the Cold War practices related rustaining scane critical elements of that force have been inedequate. aming for strategic forces behind us. In the decade since the colleges of the Sevist

though Russis presented merely a smaller version of the threat posed by the farmer Soviet Union. Following the direction laid down for U.S. defines planning in the U.S. and allied security. As a result of this review, the U.S. will no longer plan, sine or esettin its firese as America's strategic forces from the threst-based approach of the Cold War to a epsbilities-based approach. This new approach abould provide, over the consi adas, a credible deterrent at the lowest level of nuclear wasposs consistent with bessial Defense Review, the Nuclear Posture Review shifts pleaning for

range of options to defeat any aggressor. over long distances. Finally, U.S. strategic threes need to provide the President with a miliary, or technical courses of action that would threatan U.S. and allied security. nuclear faces is inappropriate for deterring the potential adversaries we will face in the 21" octoury. Terrorists or reque states armed with weapons of mass destruction U.S. forces must pose a credible deterrent to potential adversaries who have access to broader array of capability is needed to dissuade states from undertaking politics will likely test America's sesurity commitments to its allies and friends. Second, we have concluded that a strategic posture that relies solely on office er will need a range of capabilities to assure thins and the aithe of U.S. resolve. A en military technology, including NBC weapons and the means to deliver them 51

the offensive strike leg, will go beyond the Cold War tried of intercentions missibes (ICBMs), submarine-intended ballistic missibes (SLBMs), and loss missibes (ICBMs), and loss missibe the aredibility of our officiative deterrence. course, constitue to play a vital role. However, they will be just part of the fit the New Triad, intograted with new non-auciour strategic capabilities that str To meet the nation's defense goals in the 21" contary, the first lag of the New Triad, ucleur-enned bombers. ICBMs, SLBMs, bombers and nuclear weapons will, of TARBETT BA el belliorie

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The second leg of the New Tried requires development and deployment of both active and passive defenses—a recognition that offensive capabilities alone may not deter aggression in the new security environment of the 21st contary. The events of September 11, 2001 underscore this reality. Active and passive defenses will not be perfect. However, by denying or reducing the effectiveness of limited attacks, defenses can discourage attacks, provide new capabilities for managing crises, and provide insurance against the failure of traditional deterrence.

The third log of the New Triad is a responsive defines infrastructure. Since the end of the Cold War, the U.S. defense infrastructure has contracted and our nuclear infrastructure has atrophied. New approaches to development and procurement of new capabilities are being designed so that it will not take 20 years or more to field new generations of weapon systems. With respect to the nuclear infrastructure, it needs to be repaired to increase confidence in the deployed forces, eliminate unneeded weapons, and mitigate the risks of technological surprise. Maintaining our ability to respond to large strategic changes can permit us to reduce our nuclear amenal and, at the same time, dissuade adversaries from starting a competition in nuclear amenants.

The effectiveness of this New Triad depends upon command and control, intelligence, and adaptive planning. "Exquisite" intelligence on the intentions and capabilities of adversaries can permit timely adjustments to the force and improve the precision with which it can strike and defend. The skility to plan the employment of the strike and defence forces flexibly and rapidly will provide the U.S. with a significant advantage in managing crists, deterring attack and conducting military operations.

Constructing the New Triad, reducing our deployed nuclear weapons, and increasing flexibility in our strategic posture has resource implications. It costs money to ratire old weapons systems and create new capabilities. Restoring the defense infrastructure, developing and deploying strategic defenses, improving our command and control, intelligence, planning, and non-nuclear strike capabilities require new defense initiatives and investments. However, these investments can make the U.S. more secure while reducing our dependence on nuclear weapons.

The Quadrensial Defense Review established the foundation for America's post-Cold War defense strategy. Building on the Quadrennial Defense Review, the Nuclear Posture Review will transform the Cold War era offensive nuclear triad into a New Triad designed for the decades to come.

Donald H. Rumafeld Secretary of Defense

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I. Introduction (U)

Outline of the Report (I)

- (U) This section provides the legislative requirements for this report and a short de each of the following sections. 2
- (U) Section H describes a new approach to nuclear forces that arranges those forces to address and non-sucteur strike favors, defensive capabilities, and a robust infrastructure -capa enhanced communications, intelligence and planning capabilities. The New Third of s capabilities will enable the United States to reduce its reliance on a large number of the security challenges the nation will face in the coming decades. It is a major breek : Cold War thinking. The report defines a New Triad of capabilities—a combination of a operationally deployed strategic nuclear watherds. As the elements of the New Triad we haveloped and deployed, its integrated capabilities will serve multiple defense policy goal neurance of allies and friends, discussion of sevenuries, deterrance of aggressors, and sh journesse fail, defact of exemise of the United States, he allies and friends. on, and should
- Defines (DeD) to begin the drawdown in U.S. matter forces. The upart tays exit the approach to the drawdown of nuclear forces over the next decade including the restlines posture of the force. The report underscores that the drawdown is a journey toward the goal someword by the Fresident of 1,700 2,300 operationally deployed strategic nuclear aucheeds by 2012. Achieving that objective will depend on the cape soward that goal. The (U) in addition, section II summerious the actions being initiated by the De deployed at any given time. Those as Coperation mity devinament and progress in fielding the New Tried K will conduct per odic assurances to describe the su as will cancider both the evalving in mand types of
- (U) Section III outlines the approach to developing the New Triad. Developing and austri the New Triad will require initiatives in the areas of: (1) advanced non-suction seein, (2) overheal and modernization of existing planning systems as well as the technological and modernization of DoD and the National Nuclear Security Administration (NXSA). F, (3) COMMI nd and control, and (4) intelligence. It will also require an
- (U) Section IV summarium DoD plans to sustain and modernize the existing nuclear faces structure. This topic is discussed in greater detail than other elements of the New Tried in response to Congressional interest.
- (U) Section I outlines the implications for various arms countel many regimes within the new relationship between the two con raductions in operationally deployed auclier (approach. It underscores the need to move sowerd a cooperative approach with Resein stublishing a new strategic framework that is more consistent with the post-Cold Warmaries. This s ction of the report outlin

Legislative Requirement (U)

- (U) Section 1041 of the Floyd D. Spence National Defense Authorization Act for First 2001 (Public Law 106-398) requires the Secretary of Defense, in consultation with the Section 1041 further specifies that the review shall include the following elem States for the next 5 to 10 years" and to report to Congress on the results of the review. Secretary of Energy, to "conduct a comprehensive review of the nuclear posture of the United H
- (1) The role of nuclear forces in United States military strategy, plainting, and
- reliable, and credible nuclear deterrence posture. The policy requirements and objectives for the United States to maintain a safe,
- (3) The relationship among United States nuclear deterrance policy, targeting strategy, and arms control objectives
- for implementing the United States nanous and a plant for replacing or modifying existing systems. (4) The levels and composition of the nuclear delivery systems that will be required for implementing the United States' national and military strategy, including any
- Stones national and military strategy, including any plans to modernine or medify the (5) The nuclear weapons complex that will be required for implementing the United
- replacing or modifying warheads. (6) The active and inactive nuclear weepons stockpile that will be required for implementing the United States national and military strategy, including any pleas for
- 107-107) added the following additional element to be addressed in the Nuclear Posture (U) in addition, section 1033 of the Fiscal Year 2002 Defines Authorization Act (Public Law MORABLE
- (7) The possibility of deactivating or dealering nuclear warheads or delivery system immediately, or immediately after a decision to retire any specific warhead, class of warbeeds, or delivery system.
- modernization of United States strategic nuclear forces to counter enverging threats and satisfy the evolving requirements of deterrence" and submit the plan to Congress. Sectionally the evolving requirements of deterrence" and submit the plan to Congress. consultation with the Secretary of Energy, "develop a long-range plan for the sustainment and (U) Section 1042 of Public Law 106-398 further requires that the Secre 1042 further specifies that the plan "shall include the Secretary's plans, if any, for the minment and modernization of the following: ry of Defense, in
- (1) Land-based and sea-bes the Trident II see-launched ballistic missile and plans for common ballistic mi developing replacements for the Missite echaology development. ed strategic bellistic missiles, including any plans for man III intercontinuntal ball Major Maj
- replacement, and any new sir-launched weapon systems. (2) Strategic nuclear bombers, including any plans for a B-2 follow-on, a B-52
- in paragraphs (1) and (2) to satisfy evolving military requirem (3) Appropriate warheads to outfit the strategie nuclear delivery sys and preclaman som

(U) This report constitutes the Department of Defense response to the above requirements

DeD Approach to the Congressional Tacking (U)

- (U) This Nuclear Posture Review (NPR) is the first comprehensive review of nuclear forces following: non-strategic nuclear flavos; command, control, communications and instilla-the supporting infrastructure for both delivery platforms and nuclear watheads; safety, the second Strategic Arms Reduction Treaty (START II). That review also examined the since 1994, when the first Nuclear Posture Review was completed. The primary purpose of the 1994 review was to determine the strategic nuclear force structure to be deployed under scurity and use control of U.S. nuclear weapons; and threat reduction and proliferat
- forces in the new strategic environment. Most especially, it recognizes that Russia, unlike the Soviet Union, is not an ideological enemy. There is ground for mutual cooperation, and the United States is seeking to move beyond the outdated Cold War framework of relations relationship, while at the same time the proliferation of nuclear weapons and ballistic missil has created new challenges for determore. It defines the capabilities required of the muclear is managing a potentially hostile relationship between the two largest nuclear powers, the current review is built around the recognition that the United States and Russia have a new (U) The current review of the U.S. nuclear posture differs from the 1994 review. Red evelop a new strategic framework with Russia. ing organized around an arms control framework that assumes the central strategic concern No Chan
- reflects and reinforces the strategic premises of the QDR. Because of the critical re (U) The review was conducted in parallel with the Quadrounial Definese Review (QDR). It by U.S. nuclear forces in the national security strategy of the United States and its although port is broader in scope than required by law.

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II. A New Tried for a New Era (U)

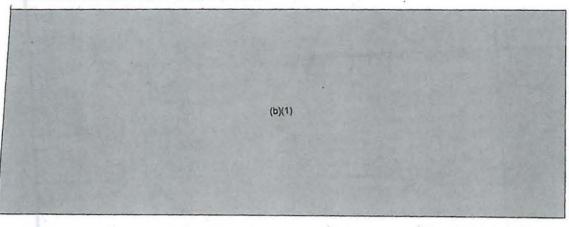
Introduction (U)

- (U) The Department of Defense presented a new defense strategy in its 2001 Quadrantial Defense Review (QDR). The QDR responded to President Bush's call for a strategy that addresses today's threats while preparing the Department to most future challenges. Number forces have an important role to play in that strategy. As this Nuclear Posture Review documents, their number, composition, and character ought to reflect the reality that the Celd War is ever and that the role of nuclear forces has changed in important ways.
- (U) The new defines strategy employs a capabilities-based approach to planning. It replaces the traditional threat-based approach that focused on specific advancation or regions of the world. Nuclear force planning will employ the same capabilities-based approach.
- (U) On the basis of the review conducted using the capabilities-based approach, President Bush announced that, over the next decade, the United States plans to reduce its operationally deployed strategic nuclear force to a range of 1,700 2,200 warheads. This range of warheads will provide a credible detarrant at the lowest possible number of nuclear waspess consistent with national security requirements and allience obligations.
- (U) The strategy on which the President's decision was based and the plan for its implementation are outlined below.

A New Era (U)

- (U) Despite periods of acute crisis, for more than four decades the United States confirmed an ideological opponent and military poor that behaved in a relatively familiar and goalistable manner. In contrast, decisions today about the size and composition of U.S. forces must take into account an increasingly complex security environment in which surprise is a dominant strategic consideration.
- (U) The United States cannot predict with confidence what serion, combination of assists or non-state actors may pose a threat to its vital interests or those of its friends and allies decades from now. In the coming decades, the United States is likely to confront unexpensed crises and conflicts involving one or a combination of adversaries armed with a wide range of copabilities, including nuclear, biological, chamical, cyberstack and terrecist wangess and the means to deliver them over long ranges. Expecting and adopting to surprise—quickly and decisively—is now a condition of planning.
- (U) Hostile Non-State Actors. The September 11th attacks demonstrated the deagar now posed by non-state actors. Many terrorist groups seek weapons of mess destruction (WMD).

(U) Possetial Adversaries. The United States, its allies and friends face adversaries and potential adversaries among a number of states. Many of these states also support terrorists. They have WMD programs and are developing ballistic missiles of increasing range in order to strike forward-deployed forces as well as the population centers of the United States and its security partners. Most of these potential adversaries are ruled by authoritarian leaders who generally are subject to few if any institutional restraints and whose decision-making processes are obscure and whose behavior is often unpredictable. As a result, the capacity of the United States to deter them is uncertain.



- (U) The international system is no longer characterized by enduring and ideologically defined geopolitical blocs. It has become more fluid and unpredictable. The United States has to determine its nuclear force requirements at a time when a major nuclear power is neither a traditional ally nor an implacable enemy. Multiple, varied, and unanticipated contingencies are likely, and the respective states involved for the United States and its adversaries will be variable and often asymmetric.
- (U) The United States is confronted by a spectrum of potential adversaries and possible combinations of hostile powers. Their strategic embitions and military espablitudes differ widely and are sometimes difficult to determine. None are pasts, but all could poss significant threats to the populations and deployed military forces of the United States, its allies and friends.

Need for a New, Post-Cold War Approach to Nuclear Forces Planning (U)

(U) Existing U.S. nuclear forces and plans are still heavily influenced by the legacy of the Cold War. The long duration and relatively static nature of the superpower rivalry resulted in war plans that were progressively refined for a fairly limited set of contingencies, dominated by the need to deter the real and frequently imminent threat of a Soviet attack on Western Europe. The plans emphasized large nuclear response options to deter massive attacks, both nuclear and conventional. The dominant U.S. strategic nuclear planning was done largely

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sport from planning for the deployment and employment of other elements of U.S. military power. Deterrance enforced by offensive nuclear response was the first line of defense.

(U) Nuclear weapons play a critical role in the defense capabilities of the United States, its allies and friends. They provide credible military options to deter a wide range of threats, including WMD and large-scale conventional military force. These nuclear espablishes possess unique properties that give the United States options to hold at risk classes of targets important to achieve strategic and political chiectives.

(b)(1)

(U) Active and passive defences have a new role in pleasing. Continued intentional vulnerability to bellistic missiles is no longer technologically mandated nor strategically wise. The September 11th attacks dramatically illustrated the unparalleled extrateions, heatility, and unpredictability of some first, and, correspondingly, the inadequacy of offictaive capabilities alone—nuclear or non-nuclear—to deter the broad spectrum of threats the action faces. Advances in defensive technologies will allow U.S. non-nuclear and nuclear capabilities to be coupled with active and passive defenses to help provide determine and protection against attack, preserve U.S. freedom of action, and strangthen the credibility of U.S. alliance commitments.

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A Capabilities-Based Approach (U)

(U) The QDR shifts defense strategy to a capabilities-based approach. This approach reflects the fact that although the United States cannot know with confidence what nation, combinations of nations, or non-state actors will pose throats to U.S. interests, it is possible to assicipate the capabilities an adversary might employ to coarce its neighbors or to deter or directly attack the United States or its deployed farces. A capabilities-based approach floures more on how an adversary might fight and the means it might use than who the adversary might be and where a war might octur. This approach will require that the United States develop and sustain a modern and diverse portfolio of military capabilities. This portfolio will serve the four key goals, defined in the QDR, that will guide the development, deployment, and use of military farces and capabilities, including nuclear forces.

Defense Policy Goals (U)

- (U) The four defence policy goals are developed in detail in the QDR and are briefly automatical below:
 - (U) essure allies and friends by demonstrating the United States' steediness of purpose and conshility to fulfill its military commitments;
 - (U) dismade adversaries from undertaking military programs or operations that could threaten U.S. interests or those of allies and friends;
 - (U) deter threats and counter courtien against the United States, its forces, allies and friends; and
 - (U) defeat any adversary decisively and defend against strack if deterrence fails.

The New Tried (U)

- (U) The application of the capabilities-based approach to U.S. nuclear forces has resulted in a decision to transform the existing triad of U.S strategic nuclear forces—intersectinental ballistic missiles (ICBMs), heavy bombers, and submerine-leanched ballistic missiles (SLBMs)—into a New Triad composed of a diverse portfolio of systems. The New Triad is designed to give the National Command Authorities a broad array of options to address a wide range of possible contingencies.
- (U) The elements of the New Triad are depicted in Figure 1 and summerized below:
 - (U) Strike espekilities, both non-excluser and nuclear, and their sesociated command and control;

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- (U) Active and passive defenses, including the command and control for air and missile defenses; and
- (U) Research and development (R&D) and industrial infrastructure for developing, building, and maintaining officeaive forces and defensive systems.

The efficiency and military potential of the individual elements of the New Tried are maximized by timely and accurate intelligence and adaptive planning. Robencing these capabilities is critical to realizing the potential inherent in the New Tried concept.

- (U) With respect to nuclear forces, once the planned warhead reductions are completed, the New Triad will comprise about one-third of the operationally deployed warheads of the current strategic nuclear force. It will retain a vital role in deterring WMD threats, assuring allies of U.S. security commitments, holding at risk an adversary's assets and capabilities that cannot be countered through non-nuclear means and discusding potential adversaries from developing large-scale nuclear or conventional threats.
- (U) Beyond 2012, as other elements of the New Triad are developed and integrated, they could assume tasks now assigned exclusively to nuclear forces.
 - (U) Non-nuclear strike capabilities may substitute for nuclear weapons in holding at risk a portion of enemy targets.

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(U) A nuclear infrastructure better able to respond to adverse changes in the security
environment and to take adventage of technological impovation can support reductions
in the non-deployed nuclear stocknile.

Under combinations of circumstances such as these, the required number of operationally deployed nuclear weapons might be further reduced.

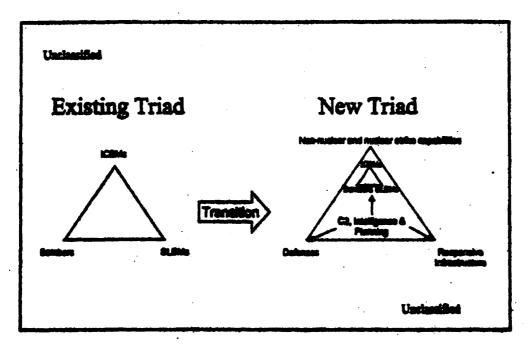


Figure 1. The New Triad (U)

Elements of the New Tried (U)

- (U) Strike Capabilities. Non-nuclear strike expabilities include advanced conventional waspens systems (long-range, precision-guided waspens and associated delivery means), offensive information operations, and special operations forces (the latter can be used to hunt for mobile missiles or operate against WMD facilities). Deployed nuclear strike capabilities include the three logs of the existing strategic tried and theater-based, nuclear-capable dustrate aircraft. Nuclear-armed sen-inuncled creise missiles, removed from ships and submarines under the 1991 Presidential Nuclear initiative, are maintained in a reserve status.
- (U) Definises. Active defences include ballistic missile defence and air defence. Passive defences include measures that reduce vulnerability through mobility, dispersal, reducedancy, despecion, consentment, and hardening; warn of imminent attack and support consequence management activities that mitigate the damage ceuted by WMD use; and protect against attacks on critical information systems. This element of the New Triad comprises defences for the U.S. homeland, forces abroad, allies and friends.
- (U) Infrastructure. The R&D and industrial infrastructure includes the research facilities, measuresturing capacity, and skilled personnel needed to produce, sustain, and mederaine the elements of the New Triad as well as the supporting intelligence and comment and control capabilities. A responsive infrastructure that can augment U.S. military capabilities through development of new systems or accelerated production of existing capabilities in a timely meaner provides strategic depth to the New Triad. In particular, a modern, responsive

nuclear weepons sector of the infrastructure is indispensable, especially as the size of the operationally deployed nuclear areanal is reduced.

(U) Planning. Careful planning will be critical in integrating and balancing the three elements of the New Triad. Planning for the New Triad must consider multiple goals, a spectrum of adversaries and contingencies, and the many uncertainties of the security environment. The planning process not only must produce a variety of flexible, pre-planned non-nuclear and nuclear options, but also incorporate sufficient adaptability to support the timely construction of additional options in a crisis or unexpected conflict.

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- (U) The Department will develop an integrated plan for all three elements of the New Trial and the supporting intelligence, planning and command and control that takes into account:
 - (U) the overall security environment;
 - (U) capabilities and intentions of potential adversaries;
 - (U) expensing threats:
 - (U) technological fassibility;
 - . (U) interestional constituents; and
 - (U) U.S. defense policy goals.
- (U) The New Triad will take time to develop as its elements are adjusted and educad to each other. Nuclear forces assigned to the New Triad and their command and control systems are mature, but are in need of refurbishment. Advanced non-nuclear strike capabilities are comparatively new, their operational effectiveness is still developing and planning for their employment is still evolving. Missile defences are beginning to emerge as systems that can have an effect on the strategic and operational calculations of potential advancation. They are now capable of providing active defence against short to medium-sungs threats. The defence and nuclear infrastructure is well-established, but in many respects neither is sufficiently familie to respond quickly to new requirements. Programs to support the collection, analysis

and distribution of exquisite intelligence are defined but still some years away from full implementation.

- (U) The President will have options over time to adjust the capabilities of the New Triad to changes in the security environment. This may require:
 - (U) rapid deployment of new technologies;
 - . (U) adjustment in the relative number or mix of deployed capabilities;
 - . (U) demonstration of a new capability; or
 - (U) adjustment in the level of operationally deployed forces, including nuclear forces.

Contributions of the New Tried to Defense Policy Goals (U)

New-ruclear and Nuclear Strike Capabilities (U)

(U) Assert. Strike capabilities can hold at risk the sesets of adversaries who threaten the United States, its allies and friends. For many contingencies, non-nuclear strike capabilities most all known requirements. For some contingencies, U.S. nuclear forces will continue to provide assurance to security partners, particularly in the presence of known or suspected threats of nuclear, biological or chemical attacks or in the event of surprising military developments. This assurance can serve to reduce the incentives for friendly countries to acquire anchor weapons of their own to deter such threats and circumstances. Nuclear capabilities also assure the U.S. public that the United States will not be subject to coursion hand on a false perception of U.S. weakness among potential adversaries.

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Active and Passive Defenses (U)

- (U) Assure. Defence of the U.S. homeland and protection of forward bases increases the ability of the United States to counteract WMD-backed countive threats and to use its power projection forces in the defence of allies and friends. Active defence extended to and operated in cooperation with that of allies and friends should enhance the strength of allience commitments to withstend the prospective costs of recisting aggression. Passive defences permit U.S. forces to operate effectively in contaminated environments.
- (U) Dismade. Defenses can make it more animous and coatly for an advancey to compute militarily with or wage war against the United States. The demonstration of a range of technologies and systems for missile defenses, especially defensive systems with multiple layers, presents a potential adversary with the prospect of a difficult, time-consuming, and expensive undertaking. If the combination of U.S. technologies and systems would in its estimation negate the value of an advarsary's missile buildup, the advancey may choose not to pursue such a course. A similar distantive effect has been crusted by U.S. ground, air and navel power; flow potentially heatile states seek to contest the United States in the field, in the air or at see.
- (U) Deter. By complicating enemy attack planning, making it more difficult for him to enticipate the effectiveness of a strike and by blusting the effects of an attack, active and passive defenses can help deter an opponent from pursuing an aggressive course. Defense of U.S. territory and power projection forces, including U.S. forces abroad, combined with the cartainty of U.S. ability to strike in response, can bring into better balance U.S. stakes and risks in a regional confrontation and thus reinforce the credibility of U.S. guarantees designed to deter attacks on allies and friends.

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Defence R&D and Industrial Infrastructure (U)

- (U) Assure. By producing and sustaining effective strike capabilities and defensive systems, a responsive infrastructure will lend strength to the New Triad, and a strong New Triad can increase the confidence that allies and friends place in U.S. socurity commitments. Important in this regard will be the ability of the infrastructure to support a demonstration of technical capabilities and rapid fielding of limited quantities of new systems in response to unexpected threats, particularly those of primary concern to allies. The nuclear portion of the infrastructure, by ensuring the reliability of nuclear arms, will continue to play a critical role in maintaining the credibility of the U.S. nuclear deterront as the nuclear weapon stockylle is reduced.
- (U) Discussion. The capacity of the infrastructure to upgrade existing weapons systems, surge production of weapons, or develop and field entirely new systems for the New Triad can discourage other countries from competing militarily with the United States. New or improved capabilities could limit or negate advantages an adversary hoped to achieve through a military buildup or development of an asymmetric capability. To have this distunctive effect, the infrastructure must be able to augment the capabilities of the New Triad in a manner suited to the type, scale and urgancy of prospective challenges. An infrastructure designed to demonstrate technical capacity and quickly field a limited number of systems has two advantages. First a force that is highly adaptive is less subject to susprise, or if susprised better able to recover quickly. Second, it provides the United States with the exportantly to economize on deployed systems. That is, not every technology demonstrated will used to be deployed, and a limited deployment may be all that is necessary to counter a specific threat.
- (U) Deter. The infrastructure must provide confidence in the reliability of the nuclear stockpile and the ability of command and control structures to withstead attack. More broadly, the defence R&D and industrial infrastructure heige to enhance determine of aggression by supporting improved U.S. capabilities to hold at risk high-value targets in the face of an adversary's efforts to conceal, harden and disputes them.
- (U) Defear. The strike forces used in any future war will be the products of the defense R&D and industrial infrastructure. As evidenced in the campaign against terrorism, that infrastructure is necessary for replenishing weapon stockpiles, repairing demaged systems, and replacing systems lost to wastime attrition.

Command and Control, Planning and Intelligence (U)

- (U) As threes are incrementally changed to meet the New Triad force requirements, command and control (C2) becomes more critical to ensure the effectiveness of the elements of the residual force structure. In particular, as threes are reduced eignificantly, C2 meet be robust, reliable, secure, survivable, timely, unambiguous, and sustainable to insure the resultant threes can be planned and executed as intended. Strike options will require intricate planning, flexibility and interface with decision makers throughout the engagement precess. Command and control will become more complex and the supporting systems and platforms will require sugmentation, modernization and replacement.
- (U) Improved command and control, pleasing and intelligence can increase the effectiveness of the elements of the New Triad, both separately and in combination. More detailed intelligence on hostile regimes can support the design of deterent strategies tailored to each of the adversaries the United States might confront. Strategic warning that the United States might face a new or greater threat of aggression in a matter of months or years can allow the infrastructure to produce more or better offensive and defensive capabilities. Accurate and timely targeting information can increase both the leftality of strike capabilities and the possibilities for non-nuclear strike capabilities to substitute for nuclear weapons or provide for the timely positioning of missile defense assets.

Role of Nuclear Weapons in the New Trind (U)

(U) Nuclear weapons have a vital role in U.S. and allied accurity. They deter attack and dissuade competition from potential edversaries. The United States must retain sufficient strategic nuclear forces to deter any hostile foreign leadership from using weapons of mass destruction ensing U.S. vital interests.

Defense Policy Gools and Related Nuclear Weapons Requirements (U)

- (U) The defense policy goals articulated in the QDR and discussed above are taken into account in defining nuclear weapon requirements. In a fluid security environment, the precise nuclear force level necessary for the future cannot be predicted with certainty. The goal of reducing, over the next decade, the U.S. operationally deployed strategic nuclear force to the range of between 1,700 and 2,200 washeads provides a degree of flexibility necessary to accommodate changes in the security environment that could affect U.S. nuclear requirements. The requirements imposed on the force to assure, dissuade, deter, and defeat adversaries are not additive. The nuclear forces required to support these goals are affected by the interaction of a number of factors:
 - (U) an assurance-related requirement for U.S. suclear forces that they be judged second to none:
 - (U) the force structure needed to provide options to halt the drawdown or redeployment of warheads to enforce the goals of deterrance and discussion;

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- (U) the number and types of targets to be held at risk for deterrence; and
- (U) the forces needed to defeat adversaries across a spectrum of conflicts and aperatios.

The number of operationally deployed nuclear forces necessary to support these defense policy goals cannot be predicted precisely. Viewed from today, however, the range established by the President provides the flexibility and responsiveness necessary to most the nation's defense policy goals.

String the Nuclear Force (U)

Immediate, Potential, and Unexpected Contingencies (U)

(U) In setting requirements for nuclear strike capabilities, distinctions can be usade among the contingencies for which the United States must be prepared. Contingencies can be estagorized as immediate, potential, or unexpected.

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	(I) The establishment of a new state in face and a side Dunis has significant	
	(U) The establishment of a new strategic framework with Russia has significant for the required size and character of U.S. nuclear forces. The United States of reduce the size of these forces. To address Russia today as if it were the Soviet precinde the more cooperative relationship sought by the United States. A immediate nuclear force requirements in recognition of the changed relationship is a critical step away from the Cold War policy of mutual vulnerability and	can productly Union would Hasting U.S. with Romin
	cooperative relations.	
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	Operationally Deployed and Responsive Nuclear Forces (U)	•
	(U) The extegories of immediate, potential, and unexpected threats have been size the nuclear forces. Nuclear forces, in turn, have been divided into two group	ampleyed to E:
	• (U) Operationally deployed forces; and	
	• (U) Responsive forces.	(b)(3):42 USC §2168(a) (1)(C) -(FRD)
(b)(3):42 USC §2168(a) (1)(C)- -(FRD)	(U) The operationally deployed forces are sized to provide the capabilisies req U.S. defense goals in the context of immediate and unexpected contingencies sufficient number of forces must be available on short notice to counter known preserving a small, additional margin in the event of a surprise development, the United Sentes is scheduled to deploy in 2012 would expectationally deployed force.	n. That is, a threats while The
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- (U) The operationally deployed force is intended to address immediate and unexpected contingencies. The responsive force is intended to address potential contingencies. The ability to reinforce in a timely and efficient manner the operationally deployed force with warheads from the responsive force will contribute to the deterrance of challenges and the discussion of arms competition.
- (U) Figure 2 illustrates the relationship between the operationally deployed and responsive forces, and immediate, potential, and unexpected contingencies.

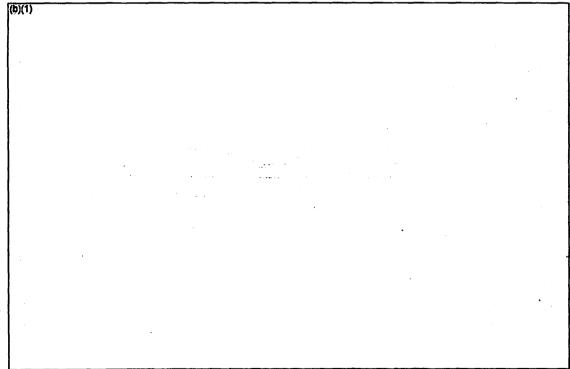


Figure 2. Operationally deployed and respondive forces (U)

Page 41 of 82

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Figure J. Path for Nacious Re	ductions (U)

(U) As the President's amounced reductions are implemented, the existing verification regime established by the first Strategic Arms Reduction Trenty (START I) will remain in effect. President Putin has announced that the Russian Federation also will reduce nuclear forces in line with its requirements. The United States will continue consultations with the Russian Federation on how to achieve increased transparency and predictability regarding reductions in offensive nuclear forces.

Summary (U)

(U) U.S. defense planning is no longer country-specific or limited to a small number of contingencies. In response to a fluid and unpredictable security environment, the Department has adopted a new and more flexible capabilities-based approach to defense planning. That approach applies to all U.S. military capabilities, including its nuclear forces. The Department has developed the concept of a New Triad as part of its capabilities-based approach. It is designed to provide the flexibility and broad mix of capabilities necessary to

-COCKET-TABLET

meet U.S. defense policy goals and deterrence requirements in a dynamic security environment.

- (U) The New Triad consists of non-suclear and nuclear strike capabilities, a responsive infrastructure, active and passive defences, and the related command, control, planning, and intelligence systems. When fully fielded, it will provide the diverse and complementary capabilities necessary to address the potential spectrum of opponents and contingencies that may arise in the coming decades. It will provide a flexible, survivable and adaptable faces to assure others of our capabilities and intentions to discusde and deter potential adversaries and defeat aggression against the U.S., its friends and allies.
- (U) Russia is not the Soviet Union. Recognizing this, predent nuclear reductions are new possible, as is the development of a new strategic framework with Russia. The overall capabilities of the New Triad, as they evolve, will support this process.

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(U) The deliberate steps taken by the U.S. to reduce its nuclear forces undersoore the opportunities that exist outside the strictures of the Cold War style of strategic arms control. That old process is incompatible with the flexibility U.S. planning and forces now require.

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III. Creating the New Triad (U)

- (C) Develop ration, will require several initiatives. ent and deployment of elements of the New Triad, described in the pro
- (U) Majer Initiatives, Developing and sustaining the New Triad will require
 investment in the areas of: (1) advanced non-cuclear strice, (2) missile definess, command and control, and (4) intelligence. These investments will reinforce the
 matien's strategic deterrent organisties and contribute rignificantly to the improve
 of the military's operational capabilities. 9
- pre-plemed options, or construct new options, during highly dynamic crisis situatin addition, the technology base and production readiness influentectures of both and NNSA must be moderaized so that the United States will be able to adjust to • (U) Overhaul of Existing Nuclear-Related Capabilities. To most the du rapidly charging arts the New Triad, an overhand of existing capabilities is needed. This tocks the tools used to build and execute states place so that the national leader structures of both DeD 春泉
- washead types in the extensi served to reduce the risk test washears powered type of wathead would ashematically reduce the capability of the facts owered type of wathead would ashematically reduce the capability of the facts will require capac reliable and facility. New Triad, the reduced size of the force will require capac washes and facility appears in the research in addition to the efforts peeded to reflects of the extent auchier a need may arise to modify, upgrade or replace portions of the extent saide to the r (U) Nuclear Force Reductions and System Medification
 Triad are deployed and the number of operationally deployed precisely the nuclear thece the United States will require in 2012 and beyond. Iriad are deployed and the number of operationally deployed nuclear washeads is reduced, adjustments may be needed to match the capabilities of the remaining assistenced, new missions. The large size of the Cold War nuclear assemble allowed planners to develop waspens optimized for specific tasks. The large number of levelop concepts for follow-en nuclear weapon systems better as ds. It is unlikely that a reduced version of the Cold War suclear a 7 2 2 Has overall THE SECTION AND ADDRESS. S STATE
- case of the New Trial



Major Initiatives	(U)
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Strike (U)

(U) DoD has identified deficiencies in its strike capability. These include:

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•	(U) Lack of tergeting floribility and countermossure resistance for non-makes

strike weapons.

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. (U) Needed improvements to sensore, timely intelligence collection and dissumination, planning flexibility, bettle management and command and control to exploit the capabilities of advanced non-nuclear strike systems.

(U) DeD has a wide variety of development activities underway to address these deficiencies. The DoD has established specific objectives for strike in the Defense Planning Guidance (DPG) for PY03. The FY04 DPG will provide guidance to coordinate and decenflict requirements for nuclear and non-nuclear systems.

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•	(U) Precision Strike. Dold has programmed into the PYU3 budget funds to transform precision strike capabilities to increase the number of targets that can be attacked in a single mission. Key programs include the Multifunction Information Distribution
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Ballistic Missie Defense (U)

- (U) Active and passive defenses are a key element of the New Triad. Within this element, development and deployment of missile defenses are important requirements.
- (U) Ballistic Missile Defence Options. The President has stated that the mission for missile defences is to protect all 50 states, our deployed forces and our friends and allies against ballistic missile stracks. The Department has reorganized its ballistic missile defence program. The program is pursuing missile defence based on the following guidance:
 - (U) Missile defines is most effective if it is layered; that is, able to intercept hellimic missiles of any range in all phases of their flight.
 - (U) The United States seeks effective defenses against attacks by small numbers of longer-range missiles as well as defenses against attacks by larger numbers of short and medium-range missiles.
 - (U) Missile defense systems, like all military systems, can be less than 100-parcent
 effective and still make a significant contribution to security by enhancing determine
 and saving lives if determine fails.
 - (U) Instead of committing to a single architecture, the United States will deploy sensors and interceptors in combinations that are best calculated to support U.S. strategic objectives.
 - (U) The President has stated that missile defenses must be designed to protect our friends and allies. The United States, therefore, is committed to broad cooperation with our friends and allies across the spectrum of missile defense systems.

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- (U) Other than PAC-3, the United States has not yet chosen systems for deployment; that decision will depend on the evolution of both technology and the threat. The Department is exploring a wide range of alternative approaches. There are two dimensions to the missile defense program: near-term emergency capabilities; and improved variants of these capabilities leading to more robust, operational systems. Several near-term and mid-term options (2003-2008) that could provide an emergency missile defense capability are under consideration, including:
 - (U) A single Airborne Leser for boost-phase intercepts may be available for limited operations against ballistic missiles of all ranges;
 - (U) A radimentary ground-based midcourse system, consisting of a small member of interceptors taken from the test program and (b)(3):42 USC §2168(a) (1)(C)-(FRD) could be available against longer-range threats to the United States; and
 - (U) A see-based Aegis system could be available to provide a radimentary mideousse capability against short to medium-range threats.
- (U) Based on the technical progress of these systems, the United States could deploy coerasional caushilities beginning in the 2006-2008 period including:
 - (U) 2-3 Airborne Laser aircraft
 - (U) Additional ground-based midcourse sites
 - (U) 4 see-based midcourse ships
 - (U) Terminal systems, able to defend against shorter-range threats: PAC-3, which
 began deployment in 2001, and THAAD, which could be available by 2008.

Command and Control, Intelligence (U)

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Command and Control (U)

(U) The Secretary of Defense established a Federal Advisory Committee (FAC) to conduct an independent, end-to-end review of all activities involved in maintaining the highest standards of nuclear weapons safety, security, control, and reliability. The End-to-End Review has been conducted consurrently with the NPR and was not completed before the deadline for decisions to be resolved in the NPR. While the study is not yet final, the FAC presented an urgent preliminary finding to the Secretary subsequent to the events of September 11th identifying the need to expend the current nuclear commend and control (C2) architecture to a true national command and control conferencing system.

Page 49 of 82

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(U) Launch detection and traci	king will be improved by	the Space-Based Inflamed Systems	m-High
systems will provide greater as	msitivity and precision re	of enemy ballistic missiles, the lative to those satellites current	dy in
pleas. DeD will develop the k	ew-orbit constellation of S	BIRS-Low satellites to support track enemy ballistic missiles	R
assist in the discrimination of s	recentry vehicles and other	objects in flight.	
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Overheal of Existing Systems (U)

Adaptive Planning (U)

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Planning Issues (U)

(U) To make the Strategic Werfare Planning System (SWPS) more responsive to adeptive planning economics, a comprehensive SWPS Transformation Study has been initiated and is being conducted by U.S. Strategic Command. Results will be available in late spring 2003. To most the requirements of adeptive planning, an upgrade of the existing nuclear C2 architecture is needed.

DoD Nuclear Infrastructure (U)

- (U) DoD has a comprehensive approach to ensuring the viability of the infrastructure to support U.S. nuclear forces. This approach includes:
 - (U) Sustainment of current systems to take advantage of previous investments;
 - (U) Modernization of the force or portions of the force by developing and deploying replacement systems and/or enhanced and new capabilities to ensure the force mean emerging and future needs;
 - (U) Revitalization of the infrastructure so that it can support in a timely manner the full range of future capability and modernization requirements.
- (U) Section IV of the report discusses the nuclear weepon sustainment and modernization programs now underway as well as those planned for the fature. This section suitings the DoD approach to the infrastructure for these systems in the context of the New Triad.

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DoD infrastructure Issues (U) (b)(1) (U) In support of this effort, the Defense Science Board Tack Force on System Technology for the Future U.S. Strategic Posture is considering strategies for enhancing the shillty of the U.S. technology bese to deal with or hedge seningt uncertainties in the nature and timing of potential strategic threats, the capability of the technology and industrial base to respond in a timely manner, and the adequacy and responsiveness of science and technology syngrams related to possible fixture strategic capabilities. In addition, the U.S. Strategic Command Advisory Group on Strategic Platforms is addressing weapon system visibility and nuclear force readings. NNSA Warhood Research, Development and Production Infrastructure (U) The Current U.S. Nuclear Workerd Infrastructure (U) (U) The U.S. nuclear weepons complex has two principal missions: first, to ensure high confidence in the safety and reliability of the enduring stacknile; second, to develop and maintain the canability to reasond to changes in the strategic environment that call for adjustments in the number of deployed weapons or, if directed, to modify existing, or develop new, weapons to most new or emerging military requirements. (U) Over the past docade, the focus of the NNSA Stocknile Stowardship Program has been to develop means to certify the safety and reliability of the aging stockpile about underground nuclear testing. The size of the production infrastructure was reduced with the goal of modernizing that smaller infrastructure to passes that the nation lies the casabilities it will need in the future. (b)(1),(b)(3):42 USC §2168(a) (1)(C)-(FRD)

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(U) The s	peed is clear for a revitalize	•	-	il:	-
•	(U) continue to secure st	ockpile safety and x	elisbility;		•
•	(U) conduct surveillance weapons well before agis	to predict and find ag degradations;	problems so the	k we can re	Arbish
•	(U) be able, if directed, to in response to new nation			d certify no	w washeads
•	(U) maintain readiness to	Presume undergrou	nd miclear testi	ng if requir	.
To achieve to redress	ve this, a multi-year plan is past underfonding.	needed, body to rei	nature stability	within the p	rogram and
	Maintenance (U)	· · · · · · · · · · · · · · · · · · ·			
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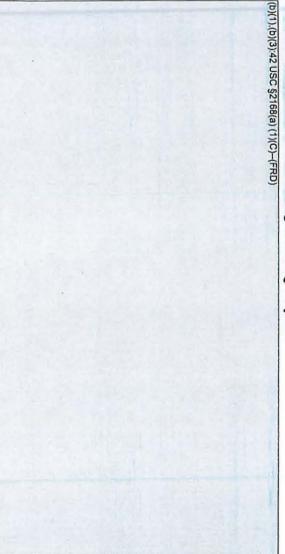
(U) The size of the active and inactive stockpile will be reviewed as part of the periodic assuments in light of the requirements for the operationally deployed and responsive forces. The resulting estimates of stockpile requirements will be refined by DoD and NNSA. The

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in the New Tried Joint Nuclear Weapons Council (DoD and NNSA) will oversee the management of the stockpile on a routine basis. Additionally, DoD and NNSA will work together to develop a tem for categorizing weapons in the stockpile that is more reflective of the approach taken

Restering Production infrastructure (U)

- responsive force are better defined. (U) A major challenge for nuclear weapons programs over the next two decades will be to refurbish, and thereby extend the life of, at least seven types of nuclear washeads. Figure 4 NNSA would commit resources to refurbish a portion of the warbeads of a specific type in illustrates the refurbiehment plan that has been jointly agreed by NNSA and the DoD, and which is reaffirmed by this NPR. This plan includes the "block upgrade" approach in which and refined later as the total requirements for the operationally-deployed force and the five-year increments. Requirements for additional warband refurbitiment will be revi
- restore the production infrastructure will represent a statuted long-term effort and will be required, to assure continued safety and reliability of the nuclear stockpile. others, sustain and modernize the R&D base for nuclear weapons, and develop new tools, as (U) In order to carry out this plan, NNSA has initiated efforts to recapitalize deteriorating highlighted below: critical to ensuring an effective, balanced stewardship program for the nation's nuclear teament and for the New Triad. Key production activities and associated facility near facilities (or build entirely new facilities), ressers lost production capabilities and moderniza Initiatives to
- dismantlement and remanufacturing of existing weapons capable of the complete assembly and disassembly of warhands. Plans are underway to capand the capacity and capability of the Panter Plant to most the planned workload for (U) Workeed Assembly and Disesse mbly: The Panter: Plant in Texas is the only facility



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Figure 4. Stockpile Refurbishment Plan (U)

(U) R&D Infrastructure Supporting the Stockpile: Aside from a few new facilities, much of the R&D infrastructure is 40 or more years old. NNSA must upgrade these capabilities to ensure the long-term ability to support the nation's nuclear deterrent posture.

NNSA lattictives for Nuclear Weapons Programs (U)

As a result of the NPR, NNSA will undertake several initiatives highlighted below:

(U) Advanced Concepts Initiative. If the U.S. is to have a flexible deterrence posture, it must be able to adapt its nuclear forces to changing strategic conditions. Specifically, adaptation and modernization of forces, including implementation of new technologies, will enable the United States to continue to achieve deterrence objectives, but more efficiently as we move to significantly lower levels of nuclear forces.

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- will provide unique opportunities to train our next generation of weapon designers and engineers. DoD and NNSA will also jointly review potential programs to provide nuclear nuclear testing would be required to field such werheads. capabilities, and identify opportunities for further study including assessments of whe concepts teams at each of the national laboratories and at headquarters in Washington. This (U) To further assess these and other nuclear weapons options in connection with meet new or emerging military requirements, the NNSA will resetablish advanced warhead
- the familiality and cost of reducing the time to "well below the Congrussionally-mandes year" (sense of the Congress as expressed in the 1996 Resolution of Ratification for the evaluating the Stockpile Stewardship Program, found that a 2-3 year lead time to resume underground testing is "unacceptable." The Panel recommendation that DOE/NNSA ass on a 1993 Presidential directive, NNSA currently maintains a capability to sensitust an underground nuclear test within 24 to 36 menths of a President's directive to do so. In START II Treaty) was addressed as part of the NPR. process for Asmeal Stockpile Cardification and the adequacy of criteria provided by DOE for Nuclear Stockpile, the Foster Panel, commissioned by Congress in FY99 to evaluate the (U) Muclear Test Readiness. The U.S. morninghum on muclear testing re-February 2001, the Panel to Assess the Reliability, Safety, and Security of the United States es in place. Base
- because of the continued reliance on nuclear waspons in the New Triad, the aging of the stockpile and the minimal capability of the nuclear waspon complex, the United States them take those steps necessary to consure the continued safety, reliability and performance of the (U) Since the end of underground testing in September 1992, the U.S. has re-certified sever warheads with components that have been modified, replaced, or in some cases rebuilt. A nuclear stockpile. number of problems uncovered by the survaillance program have been solved. However,
- (U) Test readinests is maintained principally by the participation of nuclear was program personnel in an active program of stockpile stewardship experiments, especially the subcritical experiments carried out underground at the Nevada Test Site (NTS). These are two concerns about the current test readmens program.
- personnel ratire. Not all of the techniques and processes required to carry out undergr (U) First, many experienced testing personnel are retiring or have already retired. The ex 2-3 year took rea emplacement of diagnostic equipment in a vertical shaft, drillback and radiod nuclear teets—including nuclear diagr iness posture will not be sustainable as more and more experienced test ostic iostrumentation, containmen

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analysis—are exercised with the subcritical experimentation work carried out at the NTS. As experienced personnel retire, it will become more difficult to train new people in these techniques, further degrading test readiness. This argues for an approach in which all key expabilities required to conduct underground nuclear tests are identified and exercised regularly on projects making use of a variety of nuclear testing-related skills.

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- (U) To address these concerns, and to respond to similar concerns expressed by USCINCSTRAT, the Foster Panel, DoD and others, NNSA proposes over the next three years to enhance test readiness by: augmenting key personnel and increasing their operational proficiency; beginning the mentoring of the next generation of testing personnel; conducting additional field experiments including additional subcritical experiments and test-related exercises of appropriate fidelity; replacing key underground-test-unique components (e.g., Field Test Neutron Generators); modernizing certain test diagnostic capabilities; and decreasing the time required to show regulatory and safety compliance. The Secretary of Defense endorses the NNSA initiative to enhance test readiness by reducing the lead-time to carry out an underground nuclear test to ensure that the United Seases has the necessary options at its disposal. DoD and NNSA will work to refine test scenarios and evaluate cost/benefit tradeoffs in order to determine, implement and sustain the optimum test readiness time that best supports the New Triad.
- (U) Meeting Workead Production Commitments to DoD. As discussed earlier, a high priority is the medernization and revitalization of the production complex with a focus on recovering lest manufacturing capabilities and developing new capabilities and capacities as needed both to meet the planned workload and to respond to possible stockpile "surprise." A key capability that must be recovered is manufacture of platonium pits. In addition to our efforts to establish a limited production capability at Los Alessos, NNSA will accelerate preliminary design work on a modern pit manufacturing facility so that new production capacity can be brought on-line when it is needed.
- (U) NNSA Multi-Year Plan. In order to have confidence that the NNSA proposed schedules and programs will result in the capabilities needed for the New Triad, NNSA requires a multi-

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year plan, that is adequately funded to mintroduce program stability into the mades

Propie with Critical Nuclear Sidils (U)

- hastle, and maintain nuclear weapons and the nuclear determent. As a result of resource availability, the number of personnel within DoD and DOE personning these critical stills has croised. The shortages are well documented in a number of reports including: the Defense Studies Board Task Force Report on Nuclear Deservance (October 1998); the Report to the Congress on Maintaining United States Nuclear Weapon Expertise (Chiles Commission, March 1999); Reports of the Pensel to Assess the Reliability, Safety, and Security of the U.S. Nuclear Steckpile (November 1999 and February 2001); and Nuclear Stellis Recorden. (U) Skilled personnel will be required to perform critical tasks to safety and reliably operate. P sures within the Department of Defines and Department of Energy (Decar is studies, along with the NPR review of boy personnel, highlight assural b **(884 P**
- (U) Perception of diminished stature of the nuclear community, underscored by continuing and planned reductions in the suclear posture;
- (U) Aging of people, hardware, infrastructure and the tack
- (U) Loss of community of personnel who understand the complexities of medius were developed; and hardening and the nuclear environment orients on which the exten
- (U) Continuing shortage of exceptional quality personnel to operate and maintain uclear weapons.
- (U) As a result of these studies, and the NPR seview of nuclear skills and persuand within DoD and NNSA, the following amions are being initiated:
- (U) The Secretary of Definae will ditust the Definae Science Board to forestat the future needs of DeD for nuclear-skilled personnel and to evaluate the ability of the DeD to recruit and train the nuclear-skilled personnel it will need for the fours. This review will include the Services, supporting staffs, and agencies; and
- (U) The DoD and NNSA will jointly support opportunities that provide an end-of demonstration of integrated expabilities involved with wathout design, developed manufacturing, and wathout/watpon integration. A bay objective is to exercise critical skills for adapting wathouts to DoD weapon delivery systems;
- (U) The DoD and NASA will enter into a permentip to utilize the NASA Adver apts Initiative in cader to izve tigate options to mest future or paidity needs and

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to exercise the DoD/NNSA weapon development interface. NNSA will include the following as goals for the new Advanced Concepts Initiative:

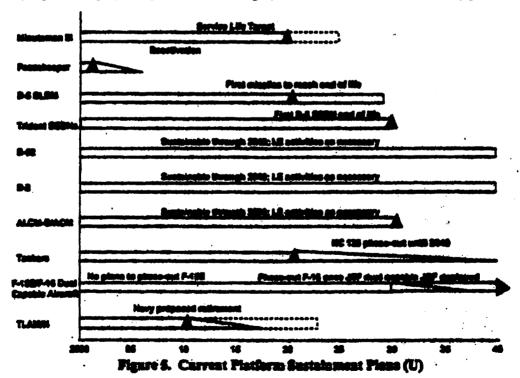
- (U) Transfer of warhead design knowledge from the current generation of designers to the next generation.
- (U) Exercise of DoD/NNSA program integration skills.

IV. U.S. Nuclear Platforms and Capabilities (U)

(U) This section directly responds to Congressional interest in efforts to sustain U.S. nuclear forces, and plans for their modernization or replacement. It will also identify shortfalls in capabilities of the current forces, and actions initiated to address those shortfalls in order to provide the nuclear offense capabilities required for the New Triad.

Nuclear Force Sustainment and Medernization (U)

- (U) DoD has a comprehensive approach to ensuring the visibility and effectiveness of the U.S. nuclear deterrent. This includes:
 - . (U) Sustainment of current potents to take advantage of provious investments:
 - (U) Medernization of the force or portions of the force by developing and deploying replacement systems and/or enhanced and new capabilities to ensure the force meets emerging and future needs;
 - (U) Revitalization of the DoD and NNSA infrastructures so that they can support in a timely manner the full range of future capability and modernization requirements.
- (U) Figure 5 displays the plans for sustaining the current force of nuclear delivery platforms.



(U) Figure 6 displays the decision dates required to develop replacements for the current platforms.

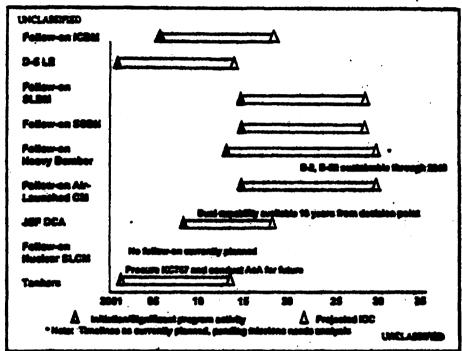


Figure 6. Decision Dates Required for Replacement Systems (U)

Intercentinental Belliotic Missiles (ICBMs) (U)

- (U) ICBMs are a critical component of the New Triad. The focus of the Department's efforts are to extend the life of the Minutantan III weepen system until 2020 while beginning the requirements process for the next-generation ICBM. A set of comprehensive sustainment programs are planned or underway to meet these objectives. These programs include the Guidance Replacement Program (GRP), Propulsion Replacement Program (PRP), Propulsion System Recket Engine (PSRE) life extension program, Rapid Execution and Combet Targeting (REACT) service life extension program, Havironmental Control System (ECS) program, and the Safety Enhanced Reentry Vehicle (SERV) program. Successful fielding of these programs by the end of the decade will be an important consideration as the Department examines progress in making the New Tried a reality.
- (U) The engoing efforts, listed above, provide for a capable, reliable, and fully supportable Misutemen III missile over the next two decades. The linchpin of Misutemen sustainment is the GRP. It replaces missile guidance set components, restores ground and flight reliability, and ensures future supportability. The GRP guidance set must be fielded prior to, or in

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conjunction with, the Prepulsion Replacement and Safety Enhanced Reentry Vehicle programs. The PRP program will re-pour stages 1 and 2, and will remanufacture stage 3 of the Minuteman III solid rocket motors to address age related degradations and ensure that motors, ordinance, and integrating hasdware remain reliable and capable of required system performance. The PSRE Life Entension Program replaces aging components in the Minuteman III post-boost vehicle and ensures future availability of replacement parts. These programs are sequenced and their fielding is dependent on each other. More importantly, they are assential to the reliability of the ICBMs in the New Triad.

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address and con	ps are underway to sustain M red life of the Minuteman III m ses sustainment issues of the l strol and launch execution cap s to extend ECS life through 2	nissile. The REACT aunch control center pability. The ECS p	Service Life Extension craw station that provi	Program des commend
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(U) Fall	New-on ICBM. Today's ICI	M force is underso	ing major life contension	- Commit
designo	d to sustain it through the 20. Ballistic Missile Requiremen	20 time frame. The	Air Force Space Comm	and (APSPC)
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(U) Trident Beilistic Missile Submarines (SSBN). The Trident Chio-class SSBNs with their significant survivability capabilities will serve as the mainstay of the sea-based nuclear faces

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(U) Triders II SLRM. DoD will find the D-5 Life Exension Program, which continues the production of D-5 missiles and upgrades the guidance and missile electronics systems on existing missiles. The continued production of additional D-5 missiles is needed in order to provent a shortage of missiles in the next decade. As a result of continued production, reliability and accuracy of the D-5 missile and its subsystems will be sustained, along with the D-5 supplier base and critical nuclear skills necessary to ensure the high reliability of D-5 performance.

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- (L) Fallow-on SLBM. A new SLBM would be needed in about 2029 to match the achedule for a follow-on SSBN. The Navy has begun studies to examine range/paylend requirements and missile size, but has no specific plans for a follow-on SLBM at this point other than extending the service life of the Trident D-5.
- (U) Common Mittelle. The Department of Defines does not plan to pursue a common ICBM/SLBM bellistic missile at this time. However, the Air Force and Nevy are currently cooperating in research and development on common technologies related to current and fature bellistic missiles the Guidance Applications Program (GAP), Recently Systems

Applications Program (RSAP), Propulsion Applications Program (PAP), and Technology for the Sastainment of Strategic Systems (TSSS) programs.

Heavy Bombers/Air-Launched Cruise Missiles (U)

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(U) Strategic Beautiers. The Air Force plans to keep the current B-2 and B-52 fleet operational for another 35 to 40 years. An aggressive sustainment and modernization effort for both platforms is required to support this plan. In particular, upgrades to communications, avionics, processors, radar systems, displays, and navigation equipment are essential to keep the fleet affordable and operationally relevant throughout this period.

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- (U) Several upgrades are currently underway on the B-2. These upgrades include AHFM (Alternate High Frequency Material) which improves the ability to maintain the low observable materials of the sizeraft; UHF/SATCOM upgrade; JARSM upgrade; Mk-82 Smart Bumb Rock Assembly upgrade; and Link-16 upgrade.
- (U) Als-Leanched Weapon Systems. The Air Force recently determined that its current force of cruise missiles can be sustained until 2030. Service life extension funcibility studies have been conducted for both the Air-Leanched Cruise Missile (ALCM) and Advanced Cruise Missile (ACM). Additional resources will be required to implement life extension programs for those missiles unless replacements are developed and deployed later this decade.
- (U) Follow-on Strategic Bembers. If current estimates of the service lives for bembers are approximately correct, and there continues to be a requirement for a bomber force in essess

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from substance stability and non-stability siturall to supersonic, hypersonic, sub-orbital, and orbital-vehicles. Both manned and unmanned vehicles are under consideration. The Air Force recently funded a science and technology effort for the Long-Range Strike Astrospect Platforn-X to further explore options. of the current B-2 fleet, a new bomber will need to be operational by approximately 2040. need for additional or improved bomber capabilities could, bowever, move the "need date" slowr to the present. Roplacement lead times, from program initiation to initial operating repeblity, could be 20 years or more. Formial concepts for a new strategic bomber range spebility, could be 20 years or more. Potential concepts for a new strategic boss

- (U) Follow-on Ab-Launched Wagon Systems. There are no plane at this time for a follow-on nuclear ALCM, as current air-immediad cruise missiles are projected to be startisable through 2050. A next-generation cruise missile program would need to start around FY 2014 to ensure an IOC is the 2050 timedrame. However, conventional cruise missile programs (such as the Extended Range Cruise Missile) are planned that could support an accelerated timesable if necessary, but would have to be modified to carry nuclear werheads.
- Joint Suthe Pighter (ISF) sircreft. In addition, there are a number of policy implications, including several that must be considered in consultation with our NATO allies. The Operational Requirements Documents for the ISF requires that initial design permit mucleus capability to be incorporated at a later date (after IOC, currently scheduled for 2012) at an affordable price. (U) Duel-Capable Altrough. DoD is considering options and their essocial ed the life of the dual-capable F-16 C/Ds and F-15Es or make a block upgrade to the ned costs to either

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(U) Takes common sirfieme sirlift and special missions platform. ease or purchase of 100 off-the-shelf 767 traiters as an interim measured the KC-X first replacement platform. In developing shares quipped with a survivable communications capability limiting its effectiveness in a say ping filest will begin a long pleased retirement starting in 2013 and occitaining to proximately 2040. The Air Force anticipens constant upgrades to avionics, displays, prigntion equipment over the coming years. However, the current EC-135 fleet is not ms. The Air Force is evaluating a follow-on under in conju The current fleet of KC-134s will be operational for the next 35-40 years. sed retirement starting in 2013 and continuing to loping sitemativ The service is also considering the sure prior to the se ction with a follow-or

needs to be given to the possibility that aboraft will operate in a nuclear, biological and chemical weapon environment.

Cress-Cetting Issues (U)

- (U) Science and Technology and Continued Support of the Strategic Industrial Base. The Department has identified a number of critical areas where industrial base and related skills are not preserved by either defense programs or the commercial sector. To retain this expertise, which is required to maintain existing deployed systems beyond their original life and to design, develop and produce new systems, the Air Force and the Newy have initiated technology sustainment programs. These custainment programs fund research and production technology for recurry systems, solid rocket motors, guidance systems, and redistion hardened electronic parts. These focus areas are coordinated between the Air Force and Navy to prevent duplication of effort and to assess areas for common technologies and companions in future systems. Additionally, a number of defines technology objectives have been included under the Technology for Sustainment of Strategic Systems (TSSS) to examine amerging technologies.
- (U) Robert Flight-Testing, Aging and Surveillance. Air Force and Navy nuclear systems require robust flight-testing programs to provide operationally representative data on weapon system performance and to predict weapon system reliability and accusacy. As existing systems age, especially in the context of reduced force levels, it is imperative that DeD have the ability to predict significant changes in the performance of molest systems. Currently, only the D-5 missile system fulfills the required annual flight tests. A comprehensive aging and surveillance program is essential to anticipate and predict component failure in time to avoid degraded weapon system reliability and maintain weapon evaluability. The Department may be required to increase flight tests and to implement a predictive surveillance program to ensure that these weapons will remain reliable over the extended lifetimes. As part of the surveillance and life extension programs, believing missiles will be flight tested in the full rense of potentially deployable configurations.

Nuclear Warkend Sustainment (U)

(U) DoD will continue to work closely with NNSA. Both DoD and NNSA have a critical responsibility to maintain a comprehensive infrastructure that supports the U.S. nuclear waspens program and its personnel.

(b)(1),(b)(3):42 USC §2168(a) (1)(C)-(FRD)		

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Mobile and Relocatable Targets (U)	257
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- (U) DeD is addressing long-lead planning in the following ways:
 - (U) The Chairman of the Joint Chiefs of Staff has initiated a Strategic Determent Joint
 Warfighting Capability Assessment to characterize the requirements for nuclear
 weapon systems in the 2020 timeframe. The assessment is to be complete in early
 FY03.
 - (U) DoD will conduct a study in FY02 to identify potential problems with the current replacement of nuclear weapon systems at end-of-life plan and to recommend alternatives. Waiting to replace each current weapon system until that weapon can no longer be maintained through life extension medifications is not likely to be an effective long-term strategy. Two concerns with this approach are: (1) the time-phasing of the replacements may result in a funding bow wave for which it would be difficult for the Department to program funds; and (2) the supporting infrastructure would likely undergo periodic shutdowns followed by periods of intense activity.
 - (U) DoD, in consultation with NNSA, will develop an investment strategy for sustainment, modernization and replacement of nuclear weapon systems. The investment strategy is to include a mix of near-term modifications of existing systems to provide enhanced capabilities during the force drawdown as well as long-term

replacements in an affordable, time-phased plan. The investment strategy also will address the requirement to sustain key industrial capabilities for the nation during periods when acquisition-related demands would be insufficient to sustain the infrastructure.

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V. Nuclear Reductions and Implications for Arms Control (U)

Approach to Reductions (U)

- (U) Recognizing that the dangers facing the United States have been fundamentally altered, the reductions projected by the Nuclear Posture Review assume four main principles: 1) the forces will be reduced to the lowest possible level consistent with U.S. and allied astignal security needs; 2) the capability and flexibility to adapt to a rapidly changing threat environment will be preserved; 3) progress will be made toward the development and fielding of the New Triad, including a strengthened nuclear infrastructure; and 4) the shifty of nuclear-capable bombers to deliver conventional weapons will be preserved. To achieve these reductions, DoD will conduct periodic reviews to assess progress towards the President's guil of 1,700 to 2,200 operationally deployed strategic werheads in 2012.
- (U) Because of the dynamic, unpredictable nature of the coming decades, the Department will maintain a responsive capability to augment the operationally deployed force should world events make such action necessary. These sucher force reductions will not be accomplished within the Cold War arms control framework. The new approach facilitates reductions while preserving the U.S. ability to respond expeditiously to changing situations. The United States will continue to comply with the first Strategic Arms Reduction Treaty (START I).

Initial Reductions (U)

(U) Strategic nuclear reductions will be completed in phases. As the first step in the protess, the United States has decided to resize its 50 Pennshaper ICBMs, to remove four Trident subtractions from strategic service, and to no longer traintain the ability to return the 3-1 bomber force to nuclear service. When these reductions are complete in FY06, the number of U.S. operationally deployed strategic nuclear warheads will be reduced by about 1,300 warheads accountable under the START I Treaty (based on attribution rules at the time these decisions were made). The four Trident submarines that will be removed from strategic service will remain accountable under the START I Treaty.

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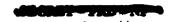
(b)(1),(b)(3):42 USC §2168(a) (1)(C)-(FRD)			
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Leager-Term Reductions (U)

- (U) With regard to additional reductions beyond FY07, the United States plans to decrease the number of warheads on its ballistic missile force by "downloading." Regarding bombers, reductions will be made by lowering the number of operationally deployed weapons, i.e., those svailable for leading at operational bomber bases.
- (U) Long-range bembers are no longer on day-to-day nuclear alest, are rarely armed with nuclear weapons and are used primarily for conventional roles. Those bombers played a major role in air comparigns conducted in the 1990s and are continuing to do so today in the war against terrorism. In making reductions in the number of deployed nuclear weapons associated with the bomber force, there will not be any reductions in the expability of U.S. bembers to deliver conventional weapons.

(b)(3):42 USC §2168 (a) (1)(C)--(FRD)

- (U) U.S. forces will have no more operationally deployed strategic nuclear warheads when the goal is achieved in 2012. U.S. operationally deployed warheads counted in this testal are those that are on alert or can be placed on alert in a matter of days. SLEM warheads for SSBNs in overhaul will not be counted as operationally deployed because these submarines are unavailable for alert patrols. Warheads that will count as operationally deployed are:
- (U) For ballistic missiles, the setual number of nuclear weapons loaded on the ICBMs or SLBMs.
- (U) For hombers, those nuclear weepons located in weepon storage areas at homber bases (except for a small number of sperce).
- (U) The possibility cannot be ruled out that there will be differences in the number of warheads deployed on specific missile types. The United States reserves the right to change the specific composition of its nuclear forces and the allocation of warheads among the composition and the strategic nuclear force. Specific force composition and warhead allocation



secong the components of the nuclear force will be a function of operational requirements.

Legal constraints of the START I Treaty will continue to be observed.

START I Treaty (U)

- (U) The START I Treaty contains many features relevant to these reductions. It contains an extensive varification regime, including provisions for the exchange of data, a telemetry regime, and an extensive inspection regime. The START I Treaty provisions will continue to provide a valuable measure of transparency for both the United States and Russia.
- (U) in addition, there are many START I provisions that will continue to constrain U.S. and Russian options for strategic anciest forces, even at reduced levels. START I limits the number of warhands that can be deployed on any specific type of ballistic missile. It prohibits any increase in the number of warhands from the number declared. It limits the number of nuclear six-issuched cruise missiles (ALCMs) that can be surried by heavy bombers and effectively prohibits carrying these missiles on other types of sixuralt (which would become trusty-accountable heavy bombers if they carried ALCMs). In addition, it prohibits air-issuached and surface ship-issuached ballistic missiles of over 600-km range, including accountable, six-issuached ballistic missiles.
- (U) As long as the START I Trenty remains in effect, U.S. missiles will be limited legally to the number of washeads for which each missile type is accountable in the START Trenty Memorandum of Understanding. Similarly, U.S. long-range bombers will continue to be constrained in the number of number weapons allowed under the trenty. Under the current plans, most U.S. bombers and missiles would be operated with substantially fewer weapons than are allowed under the START I Trenty.

The START II Treaty (U)

- (U) The START II Treaty has never entered into force. Changes to the treaty were negetiated with Rustia in 1997, but never submitted to the Seaste for advice and consent. In addition, the Russian resolution of satisfication, adopted in 2000, contains unacceptable provisions contrary to the new strategic framework and establishment of the New Triad.
- (U) Nevertheless, it is clear that both the United States and Russia have set as a goal force levels below the START II limit of 3,000 3,500 accountable strategic nuclear warheads, independent of any additional arms control treaties.

Do-Alerting (U)

(U) "De-alerting" is a term used to describe various proposals intended to reduce the launch readiness of nuclear forces in the context of lessening the risk of a nuclear weapon being launched accidentally or without authorization. These measures have been discussed as a means of reducing the danger of accidental or unauthorized missile launches by countries with deficient command and control systems, "heir trigger" forces, or political instability.

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(U) The New Triad addresses concerns about the ascidental or unsutherized lesses of certain foreign forces. For example, it provides missile defenses to protect the United States, its allies and friends against limited accidental or unsutherized launches. It also will provide a spectrum of defensive and non-nuclear response options to an accidental or unsutherized launch, allowing the United States to tailor an appropriate response to the specific event and to limit the danger of escalation.

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(U) Following the initial phase of U.S. nuclear reductions, subsequent reductions will be achieved by downloading warheads from miselles and bombers. Force structure will be remined as the basis for reconstituting the responsive force. Delivery systems will not be retired following initial reductions and downloaded warheads will be retained as needed for the responsive force.

The Auti-Bellistic Missile Treaty (U)

(U) On December 13, 2001, President Bush gave formal notice, in accordance with Article XV of the ABM Treaty, that the United States is withdrawing from the Treaty. That withdrawal will be effective six menths from the date of notification.

The Comprehensive Test Ban (U)

(U) The U.S. Senate did not provide its advice and consent to the Comprehensive Test Ban Treaty (CTBT) and the Administration does not support its ratification. CONTRACTOR OF THE PARTY OF THE

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Transparency (U)

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V. Nuclear Reductions and Implications for Arms Control (U)

Approach to Reductions (U)

- (U) Recognizing that the dangers facing the United States have been fundamentally altered, the reductions projected by the Nuclear Posture Review sesume four main principles: 1) the forces will be reduced to the lowest possible level consistent with U.S. and allied national sessivity needs; 2) the capability and flexibility to adapt to a rapidly changing threat environment will be preserved; 3) progress will be made toward the development and fielding of the New Triad, including a strengthened nuclear infrastructure; and 4) the shility of nuclear-capable bombers to deliver conventional weapons will be preserved. To achieve these reductions, DoD will conduct periodic reviews to assess progress towards the President's goal of 1,700 to 2,200 operationally deployed strategic warheads in 2012.
- (U) Because of the dynamic, unpredictable mattre of the coming decades, the Department will maintain a responsive capability to sugment the operationally deployed force should world events make such action necessary. These nuclear force reductions will not be accomplished within the Cold War arms control framework. The new approach facilitates reductions while preserving the U.S. ability to respond expeditiously to changing situations. The United States will continue to comply with the first Strategle Arms Reduction Treaty (START I).

Initial Reductions (U)

(U) Strategic nuclear reductions will be completed in phases. As the first step in the process, the United States has decided to retire its 50 Peacekeeper ICBMs, to remove four Trident submarines from strategic service, and to no leagur maintain the shility to return the 2-1 humber force to nuclear service. When these reductions are complete in FY06, the number of U.S. operationally deployed strategic nuclear warheads will be reduced by about 1,300 warheads accountable under the START I Treaty (based on attribution rules at the time these decisions were made). The four Trident submarines that will be removed from strategic service will remain accountable under the START I Treaty.

(b)(1)		
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(b)(1),(b)(3):42 USC §2168(a) (1)(C)-(FRD)		
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Longer-Term Reductions (U)

- (U) With regard to additional reductions beyond FY07, the United States plans to decree the number of warheads on its ballistic missile force by "downloading." Recording bombers. reductions will be made by lowering the number of operationally deployed weepons, i.e., those available for loading at operational bomber bases.
- (U) Long-range bombers are no longer on day-to-day nuclear alert, are rarely armed with nuclear weapons and are used primarily for conventional roles. These bombers played a major role in air exceptions conducted in the 1990s and are continuing to do so today in the war against terrorism. In making reductions in the number of deployed nuclear weapons associated with the bomber force, there will not be any reductions in the capability of U.S. bombers to deliver conventional wasness.

(b)(3):42 USC (FRD)

- \$2168(a) (1)(C)- (U) U.S. forces will have no more portationally deployed strategic nuclear warheads when the goal is achieved in 2012. U.S. operationally deployed warheads cour in this total are those that are on slart or can be placed on alort in a matter of days. SLEM warheads for SSENs in everhaul will not be counted as operationally deployed because these substarines are unavailable for alert petrols. Wetherds that will count as operationally deployed are:
 - (U) For ballistic missiles, the actual number of nuclear weamons loaded on the ICRMs or SLEME
 - (U) For bombers, those nuclear weapons located in weapon storage areas at bomber base (except for a small number of sperse).
 - (U) The possibility cannot be ruled out that there will be differences in the number of washeads deployed on specific missile types. The United States reserves the night to change the specific composition of its nuclear forces and the allocation of warhands among the components of the strategic nuclear force. Specific force composition and warhead allocation

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ASSISTANT SECRETARY OF DEFENSE

2900 DEFENSE PENTAGON **WASHINGTON, DC 20301-2900**

ACTION MEMO

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INTERMATION

FOR: SECRETARY OF DEFENSE

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DepSec Action

FROM: J. D. CROUCH II, ASSISTANT SECRETABY OF DEFENSE FOR

INTERNATIONAL SECURITY POLICY/

SUBJECT: Transmittal of the Report on the Nuclear Posture Review to Congress

- (U) The National Defense Authorization Act for Fiscal Year 2001 required you, in consultation with the Secretary of Energy, "to conduct a comprehensive review of the nuclear posture of the United States for the next five to ten years."
- (U) The report at Tab B constitutes the Department of Defense response to the above requirements; coordination for the report is at Tab C.

RECOMMENDATION: (U) Sign the memoranda (14) at Tab A to the congressional leadership and key Defense and Energy committees of the Senate and House of Representatives.

COORDINATION: (See Tab D)

Attachments:

Tab A: Letters (14) to Congress Transmitting the Report (U)

Tab B: The Report to Congress (SATES)

Tab C: Coordination Page for the NPR Report (U)

Tab D. Coordination Page for the transmittal letter (U)

Prepared by



