

U.S. Air Force Bomber Sustainment and Modernization: Background and Issues for Congress

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U.S. Air Force Bomber Sustainment and Modernization Jeremiah Gertler, 2014-10-31 The United States existing long range bomber fleet of B 52s B 1s and B 2s are at a critical point in their operational life span With the average age of each airframe being 50 28 and 20 years old respectively military analysts are beginning to question just how long these aircraft can physically last and continue to be credible weapon systems As potential adversaries acquire 21st century defense systems designed to prevent U S access to the global commons sea air space and cyberspace and to limit U S forces freedom of action within an operational area the ability of these Cold War era bombers to get close enough to targets to be effective will continue to deteriorate Although the Air Force is committed to the development and acquisition of its proposed Long Range Strike Bomber LRS B it is anticipated that flight testing of the new bomber will not start until the mid 2020s with initial operational capability near 2030 With this timeline in mind the Air Force has extended the operational lives of the B 52 and B 1 out to 2040 and the B 2 out to 2058 Air Force and aerospace industry experts insist that with sufficient funding for sustainment and modernization over their expected lifespans all three of the existing bombers can physically last and continue to remain credible weapon systems However appropriations decisions made by Congress based on required military capabilities to meet national security objectives will ultimately determine how long the B 52 B 1 and B 2 will remain in service

U.S. Air Force Bomber Sustainment and Modernization Michael A. Miller, 2013 This report addresses potential congressional oversight and appropriations concerns for the sustainment and modernization of the U S Air Force s bomber force

The New Nuclear Disorder Stephen J. Cimbala, 2015-02-28 In the twenty first century the United States confronts an international system of great complexity and shifting security challenges Among these challenges are those posed by nuclear weapons Instead of becoming obsolete or being marginalized by the end of the Cold War and the demise of the Soviet Union nuclear weapons have become more important to present and future international stability and peace but the relationship is paradoxical On one hand the spread of nuclear weapons to additional states with unsettled grievances or hegemonic ambitions threatens to destabilize local balances of power and set off regional arms races In addition the possible acquisition by terrorists of nuclear weapons or fissile materials creates a threat that may be beyond deterrence according to hitherto accepted concepts On the other hand nuclear weapons in the hands of other states can contribute to stable deterrence and help to prevent nuclear proliferation to international miscreants Certain cases loom large in the short run that highlight this book s relevance including the possible acquisition and deployment of nuclear weapons by Iran and the continuing tensions created by North Korea s nuclear arsenal The Obama pivot of national security and defense emphasis to Asia reflects not only the growing economic importance of that region but also the growing number of security dilemmas in a region that is already awash in nuclear forces The management of nuclear crises and even the possible need to terminate nuclear wars before they expand beyond a single region are among the possible challenges facing future U S and allied policy

makers and military leaders *Hybrid Warfare and the Gray Zone Threat* Douglas C. Lovelace, 2016 Terrorism Commentary on Security Documents is a series that provides primary source documents and expert commentary on various topics relating to the worldwide effort to combat terrorism as well as efforts by the United States and other nations to protect their national security interests Volume 141 Hybrid Warfare and the Gray Zone Threat considers the mutation of the international security environment brought on by decades of unrivaled U S conventional military power The term hybrid warfare encompasses conventional warfare irregular warfare cyberwarfare insurgency criminality economic blackmail ethnic warfare lawfare and the application of low cost but effective technologies to thwart high cost technologically advanced forces This volume is divided into five sections covering different aspects of this topic each of which is introduced by expert commentary written by series editor Douglas C Lovelace Jr This volume contains thirteen useful documents exploring various facets of the shifting international security environment including a detailed report on hybrid warfare issued by the Joint Special Operations University and a White Paper on special operations forces support to political warfare prepared by the U S Army Special Operations Command as well as a GAO report and a CRS report covering similar topics Specific coverage is also given to topics such as cybersecurity and cyberwarfare the efficacy of sanctions in avoiding and deterring hybrid warfare threats and the intersection of the military and domestic U S law enforcement **TERRORISM: COMMENTARY ON SECURITY**

DOCUMENTS VOLUME 141 Douglas Lovelace Jr., 2016-02-24 Terrorism Commentary on Security Documents is a series that provides primary source documents and expert commentary on various topics relating to the worldwide effort to combat terrorism as well as efforts by the United States and other nations to protect their national security interests Volume 141 Hybrid Warfare and the Gray Zone Threat considers the mutation of the international security environment brought on by decades of unrivaled U S conventional military power The term hybrid warfare encompasses conventional warfare irregular warfare cyberwarfare insurgency criminality economic blackmail ethnic warfare lawfare and the application of low cost but effective technologies to thwart high cost technologically advanced forces This volume is divided into five sections covering different aspects of this topic each of which is introduced by expert commentary written by series editor Douglas C Lovelace Jr This volume contains thirteen useful documents exploring various facets of the shifting international security environment including a detailed report on hybrid warfare issued by the Joint Special Operations University and a White Paper on special operations forces support to political warfare prepared by the U S Army Special Operations Command as well as a GAO report and a CRS report covering similar topics Specific coverage is also given to topics such as cybersecurity and cyberwarfare the efficacy of sanctions in avoiding and deterring hybrid warfare threats and the intersection of the military and domestic U S law enforcement **Nonstate Warfare** Stephen Biddle, 2021-04-06 The fallacy of guerilla warfare Materially optimal behavior Politically achievable behavior Hezbollah in the 2006 Lebanon Campaign The Jaish al Mahdi in Iraq 2003 2008 The Somali National Alliance in Somalia 1992 1994 The ZNG HV and SVK in the Croatian Wars of

Independence 1991 1995 The Vietcong in the Second Indochina War 1965 1968 Conclusion and implications **Air Force**

Next-Generation Bomber (NGB) Jeremiah Gertler, 2011-04 As part of its proposed FY 2010 defense budget the Admin proposed deferring the start of a program to develop a NGB for the Air Force pending the completion of the 2010 Quadrennial Defense Review and associated Nuclear Posture Review and in light of strategic arms control negotiations with Russia Contents of this report 1 Intro 2 Admin Proposal to Defer Start of NGB Program NGB Program Prior to FY 2010 Budget Submission Existing Bomber Fleet 3 Issues for Congress Future Roles and Missions of Bombers Ability of Current Bomber Force to Perform Future Roles and Missions Bomber Design and Construction Industrial Base 4 Legislative Activity for FY 2010 Illus This is a print on demand edition of an important hard to find report U.S. Air Force Bombers Gustavo Briggs, 2013 The United States existing long range bomber fleet of B 52s B 1s and B 2s are at a critical point in their operational life span With the average age of each airframe being 50 28 and 20 years old respectively military analysts are beginning to question just how long these aircraft can physically last and continue to be credible weapon systems This book focuses on the sustainment and modernization of U S Air Force bombers the sustainment of U S global leadership and provides a brief assessment of the January 2012 defense strategic guidance **U. S. Air Force Bombers** Gustavo Briggs, 2014 The United States existing long range bomber fleet of B 52s B 1s and B 2s are at a critical point in their operational life span With the average age of each airframe being 50 28 and 20 years old respectively military analysts are beginning to question just how long these aircraft can physically last and continue to be credible weapon systems This book focuses on the sustainment and modernisation of U S Air Force bombers the sustainment of U S global leadership and provides a brief assessment of the January 2012 defence strategic guidance **Replacing America's Aging Bomber Fleet (B-52, B-1, B-2)** Department of Defense (DoD), U. S. Military, U. S. Air Force (USAF), World Spaceflight News, U. S. Government, 2018-04 America s fleet of strategic nuclear and conventional bombers the B 52 B 1 B 2 is rapidly aging and Air Force officials are pursuing a replacement bomber currently called the Long Range Strike Bomber LRS B Other ground attack options are being explored including conventionally armed ICBM missiles and space based systems This unique ebook reproduces a dozen unique military documents and reports about this critical national security issue with extensive information about all aspects of the current bomber fleet Part 1 Overview Part 2 Long Range Strike The Bedrock of Deterrence and America s Strategic Advantage Part 3 U S Air Force Long Range Strike Aircraft White Paper Part 4 Alternatives for Long Range Ground Attack Systems Part 5 Air Force Next Generation Bomber Background and Issues for Congress Part 6 Strategic Systems Presentation to the Senate Armed Services Committee Subcommittee on Strategic Forces United States Senate Part 7 A Range Balanced Force An Alternate Force Structure Adapted to New Defense Priorities Part 8 Designing a Strategic Bomber Evolving Operational Concepts Part 9 Conventional Prompt Global Strike and Long Range Ballistic Missiles Background and Issues Part 10 Space Based Global Strike Understanding Strategic and Military

Implications Part 11 Square Pegs and Round Holes Air Force Doctrine and the B 2 Bomber Part 12 U S Strategic Nuclear Forces Background Developments and Issues Long range strike LRS and the often associated phrase strategic attack are perhaps the most discussed but least understood terms in current military use Despite or perhaps because of numerous definitions and formulations we tend to overlook the real value of LRS capabilities in the minor details of numerous acquisition plans and concepts of operations Many components comprise America s power to influence Yet its ability to project conventional and nuclear military power across the globe at a time and place of our choosing represents the influential backstop for other US instruments of power The latent threat of violence supported by a credible capability to hold an enemy s most valued resources at risk with little notice or chance for defense gives LRS its ultimate strategic value Similarly nations that maintain a robust LRS historically retain a strategic advantage against peer or near peer state actors Although the platform plan or strategy may change the purpose of LRS remains the same to under gird political will by demonstrating credible flexible survivable and visible military power If the United States wishes to maintain a strategic advantage across the globe it should heed lessons learned by past global powers and place capable LRS among the highest priorities for development investment and modernization even in a fiscally constrained environment Air Force Next-Generation Bomber Library of Congress. Congressional Research Service,2009 Discusses issues surrounding AF plans to acquire a next generation bomber NGB aircraft by 2018 in light of recent Administration proposal to defer start of NGB program Outlines plans for NGB program prior to FY2010 budget submission reviews recent comments on NGB profiles existing bomber fleet reviews U S bomber force since end of Cold War and summarizes prior year legislative activity Discusses issues for Congress highlighting whether to fund NGB in FY2010 and whether to enact legislation to amend or add to prior year legislation on bomber force structure Discusses legislative activity for FY2010 **Tactical Aircraft Modernization: Issues for Congress** ,2009 Tactical aircraft are a major component of U S military capability and account for a significant portion of U S defense spending In early 2009 the Air Force Navy and Marine Corps collectively had an inventory of about 3 500 tactical aircraft Current efforts for modernizing U S tactical aircraft center on three aircraft acquisition programs the F 35 Joint Strike Fighter JSF program the Air Force F 22 fighter program and the Navy F A 18E F strike fighter program For discussions of issues relating specifically to these three programs see CRS Reports RL30563 RL31673 and RL30624 respectively Long-range Bombers Benjamin Jones,2003 The Air Force s long range bombers were designed during the Cold War to deliver nuclear strikes against the Soviet Union Although they can be vulnerable to enemy defenses if detected they combine the ability to fly extended distances much farther than most other combat aircraft with the ability to carry weapons payloads many times larger than that of fighters Over the past decade the Air Force has taken advantage of these characteristics by migrating its bomber fleet from a nuclear to a conventional role Today the Air Force maintains three bombers the B 1B the B 2 and the B 52 and each has been outfitted with a variety of precision and dumb

weapons for conventional strikes In recent conflicts in Afghanistan 2001 and Iraq 2003 bombers have played prominent roles
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The Next Generation Bomber ,2008 The Air Force is in the initial stages of formalizing a new bomber aircraft acquisition program This program in accordance with Department of Defense DOD and congressional mandates is to produce a new long range strike aircraft to be operational by 2018 Air Force plans for acquiring a new bomber aircraft have been accelerated by about 20 years from earlier projections because of a combination of the Air Force s desire to retire a portion of its B 52 fleet and DOD s perception of a developing bomber capability gap Defense analysts have estimated that it will cost between 8 billion and 10 billion to develop a new bomber using current or soon to mature technologies

Tactical Aircraft Modernization Library of Congress. Congressional Research Service,2008 Provides background on and analysis of DOD program to modernize tactical aircraft in U S military addresses issues of affordability and industrial base and surveys Congressional activity for FY2010

Tactical Aircraft Modernization: Issues for Congress ,2008 Tactical aircraft are a major component of U S military capability and account for a significant portion of U S defense spending In early 2009 the Air Force Navy and Marine Corps collectively had an inventory of about 3 500 tactical aircraft Current efforts for modernizing U S tactical aircraft center on three aircraft acquisition programs the F 35 Joint Strike Fighter JSF program the Air Force F 22 fighter program and the Navy F A 18E F strike fighter program For discussions of issues relating specifically to these three programs see CRS Reports RL30563 RL31673 and RL30624 respectively *Air Force Transformation* ,2001

Long-Range Bombers ,2003 The Air Force s long range bombers were designed during the Cold War to deliver nuclear strikes against the Soviet Union Although they can be vulnerable to enemy defenses if detected they combine the ability to fly extended distances much farther than most other combat aircraft with the ability to carry weapons payloads many times larger than that of fighters Over the past decade the Air Force has taken advantage of these characteristics by migrating its bomber fleet from a nuclear to a conventional role Today the Air Force maintains three bombers the B 1B the B 2 and the B 52 and each has been outfitted with a variety of precision and dumb weapons for conventional strikes In recent conflicts in Afghanistan 2001 and Iraq 2003 bombers have played prominent roles Questions remain however about where bombers fit into Air Force spending priorities Some argue that because bombers can be vulnerable against advanced air defenses scarce resources are best spent on other programs that can address the full spectrum of potential future conflicts such as the F A 22 Raptor Others counter that the range and payload of the bombers many times that of fighters like the F A 22 make them extremely valuable and believe that modernizing them building additional aircraft and developing a next generation bomber should be top budget priorities Decisions in Congress and the Department of Defense regarding bombers may have important long term implications Each of the three bombers is in need of expensive upgrades and decisions about the funding of these upgrades may affect the continued utility of these aircraft Second a debate has arisen over whether to expand or contract the bomber fleet Third military observers and policymakers disagree about when to begin a next generation bomber program

some push to begin a new program immediately while others advocate waiting a decade or more before initiating development of a new bomber This report discusses the background status and current issues surrounding the Air Force s long range bomber fleet Before addressing each of the three bombers individually this report analyzes issues affecting the entire fleet Tactical Aircraft Modernization ,2005 This Issue Brief examines DOD s four largest tactical aircraft modernization programs The background section provides a brief description of each program and a discussion of how tactical aircraft fit into military air operations the missions they typically perform and how they contrast to longer range combat aircraft The analysis section examines a number of policy issues including affordability capability required force structure service roles and missions industrial base and transformation The paper concludes with a synopsis of recent congressional action of these programs *Air Force Transformation* ,2001 Many believe that the Department of Defense DoD including the Air Force must transform itself to ensure future U S military dominance The Air Force has a transformation plan that includes advanced technologies concept development and organizational innovation Issues for Congress include the efficacy of this plan its feasibility and the attendant costs This report will be updated as events dictate

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