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AMERICA PROMISES TO COME BACK: A NEW
NATIONAL STRATEGY

BY

JAMES J. TRITTEN

AUGUST 5, 1991

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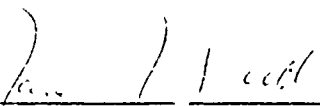
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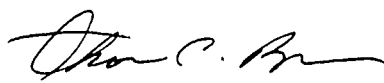
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6. Abstract

unilateral capability for overseas intervention. Discussion of parallel NATO initiatives. Discussion of major issues resulting from this proposed strategy and force structure, including: is the new strategy real, defining new goals and objectives in both programming and war planning, the effect of Operations DESERT SHIELD and DESERT STORM, new requirement for intelligence, requirements for decision-making, setting technological requirement research & development, investment strategy and industrial conversion, reconstitution stockpiles, impact upon DoD organization, a transition period, arms control, and new requirements for military operations research and analysis. Concludes that there are four major critical factors upon which the new strategy depends; (1) the behavior of the USSR (2) the behavior of allies and the Congress (3) the ability of the intelligence community to meet new challenges, and (4) the ability of industry to meet new demands. Conclusions that, even if it can be shown that industry cannot meet new demands, the strategy may still be useful. Section on specific impact on the Navy Department. The new strategy is not simply an adjustment to existing defense doctrine or strategy but rather a fundamental revision to the way the U.S. has approached defense since 1945.



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AMERICA PROMISES TO COME BACK: A NEW NATIONAL STRATEGY

by
James J. Tritten¹

President George Bush unveiled a new national security strategy for the United States in his August 2, 1990 speech at the Aspen Institute.² In the audience was Britain's former Prime Minister Margaret Thatcher. Although Mr. Bush spoke about the United States and United Kingdom "standing shoulder to shoulder," and "when it comes to national security, America can never afford to fail or fall short," the national security strategy concepts he unveiled at Aspen would be **revolutionary** and have direct and dramatic impacts on NATO and the rest of the world.

Essentially, the President opened the door to a **total** reexamination of America's role in the world and its overall military capability. The historical parallel is the British reorientation in the first decade of the 20th Century from strategic focus on colonies to Europe. As Clausewitz wrote, war has ". . . its own grammar, but not its own logic."³ The old political logic and lexicon of the Cold War has changed - it is now time to change the military grammar.

U.S. defense policy will be based upon four major elements: deterrence, forward presence, crisis response, and reconstitution. Rather than deploy forces at the levels maintained since World War II, under this new national security strategy the United States would maintain a much smaller active and reserve force mix primarily focused on world-wide major contingency

operations -- not a Europe-centered global war with the USSR. If forces were required to fight a major war against the Soviet Union, the U.S. assumes that there would be sufficient time to reconstitute them. Specifically, the President has apparently accepted the consensus of his intelligence community that the Soviet Union would need "at least one to two years or longer to regenerate the capability for a European theater-wide offensive or a global conflict."⁴ The U.S. assumes, therefore, that it will have two year's warning for a Europe-centered global war with the USSR.

Sources of the New Strategy

Instead of a single or even a few documents to which we can refer to understand the new national security strategy and its associated force structure, there are a series of speeches, articles, and reports that must be consulted to get the complete story. To understand these documents, they must be read in sequence to see how the concepts evolved over time. Since publication dates differing from dates on which some articles were written, they are placed in chronological sequence. This section provides the proper chronology and full documentation for all primary source documents.

The sequence starts with the President's speech at Aspen on August 2, 1990. Generally ignored by media due to Iraq's invasion of Kuwait on the same day, the concepts outlined in the President's Aspen speech were brief and visionary - destined to be fully developed by official spokesmen in the following months. The New York Times covered the new strategy and force structure in depth on the same day, but based its story on leaks of a confidential briefing of the plan to the President in late June, and subsequent briefings to the Defense Policy Resources Board (DPRB).⁵ Aviation Week & Space Technology covered the new national security strategy and force structure in depth - in their August 13, 1990 issue.⁶

General Colin L. Powell, U.S. Army, Chairman of the Joint Chiefs of Staff (JCS), provided details on the new national

security strategy and associated force structure in two speeches to the Veterans of Foreign Wars (VFW)⁷ and the American Legion,⁸ late in August. Secretary of Defense Dick Cheney, spoke at the 32nd Annual Conference of the International Institute for Strategic Studies (IISS) on September 6th, and explained that the new strategic concepts outlined in Aspen would form the basis of programming documents to be made public in early 1991.⁹ Cheney noted that a series of Congressional and other briefings were to have followed the Aspen speech, but that he and General Powell were able to meet only once, on August 2nd, with the chairman and ranking members of the four major Congressional armed services committees.

Moscow's Pravda reported Cheney's remarks at the IISS meeting and that President Bush had ordered changes in American security strategy.¹⁰ Cheney followed up his IISS address with a similar speech at the Comstock Club/Air Force Association (AFA) in Sacramento on September 13,¹¹ at the Bay Area Council in San Francisco on September 14,¹² another briefing to AFA on September 17th, an address to the National Association of Business Economists on September 26th, and a talk to the Pittsburgh World Affairs Council on October 30th.¹³

The former Joint Staff Director for Strategic Plans and Policy (J-5), Lieutenant General George Lee Butler, U.S. Air Force, gave additional detailed information late in September at the National Press Club.¹⁴ The essence of this speech appeared subsequently in the Spring 1991 issue of Parameters,¹⁵ the jour-

nal of the U.S. Army War College. From the tenor and content of General Butler's address and article, it appears that he had a major hand in developing the new national security strategy or force structure.

Secretary Cheney's visit and remarks in Moscow this past October, about the new national security strategy and future force structure, were widely covered by the Soviet press¹⁶ but generally not reported in the U.S. General Powell authored an article in the October 1990 issue of The Retired Officer.¹⁷ This article, however, was based upon his presentation at the National Press Club immediately preceding the Iraqi takeover of Kuwait -- hence it should be placed ahead of the Aspen speech. Similarly, General Powell's February 1991 article in the magazine of the Reserve Officers Association¹⁸ should be read from the perspective of currency through October.

General Powell gave two December 1990 speeches: one to the Royal United Services Institute for Defence Studies (RUSI),¹⁹ the other at the Armed Forces Communications and Electronics Association (AFCEA).²⁰ The Chairman's RUSI remarks also appear in the Spring 1991 issue of The RUSI Journal but these should be read assuming a December 1990 currency with superficial updating for the obvious.²¹

Vice Chairman of the JCS, Admiral David E. Jeremiah, U.S. Navy, echoed General Powell's concepts in another December speech

to the President's National Security Telecommunications Committee (NSTAC).²² The Commander-in-Chief (C-in-C), U.S. Space Command, General Donald J. Kutyna, U.S. Air Force, told a San Diego Space Day audience in January, 1991 that General Powell had asked each of the C-in-Cs to examine their forces and present that minimal "base" force structure necessary to maintain our superpower status.²³

Only limited commentary about the new national security strategy or force structure appeared in the U.S. media,²⁴ other than the reports in the New York Times and Aviation Week & Space Technology, until the February Department of Defense (DoD) testimony to the Congress. The U.S. press had been otherwise engaged in major defense-associated reporting of events in the Middle East. In 1991, the testimony to the Congress by the Secretary of Defense and the Chairman of the JCS preceded the delivery of the annual DoD report to the Congress.

The first testimony was presented by the Secretary of Defense and the Chairman of the JCS before the House Armed Services Committee (HASC) on February 7, 1991.²⁵ Their second testimony was before the House Appropriations Committee on February 19th.²⁶ Two days later, on February 21st, they testified before the Senate Armed Services Committee (SASC).²⁷ Following this testimony, the 1991 Secretary of Defense Annual Report to the President and the Congress was actually issued, although it is dated January.²⁸ This report specifically addresses the new national security strategy and provides a force structure designed for

budgetary and political give and take. For those who still did not understand that national strategy and force structure were changing, a copy of the President's Aspen speech was appended.

In mid-March, I. Lewis "Scooter" Libby, the Principal Deputy Under Secretary of Defense (Strategy and Resources)²⁹ and Admiral Jeremiah³⁰ appeared before the HASC and provided the first UNCLASSIFIED details on future force structure. Later in March, Paul Wolfowitz, the Under Secretary of Defense for Policy, also appeared before the HASC and testified with General Butler, now C-in-C of the Strategic Air Command, on the strategy and how it would affect strategic nuclear offensive and defensive forces.³¹

Secretary Cheney prepared an address on the new national security strategy for delivery at the Georgetown University.³² By the end of March, the Joint Chiefs of Staff issued their 1991 Joint Military Net Assessment (JMNA) which included a Foreword by the Secretary.³³ On April 3, General Powell once again spoke on the new national security strategy and force structure in an address to the American Defense Preparedness Association (ADPA).³⁴ Powell also made some remarks on reorganization in mid-April, reported in Army Times.³⁵ The Chairman of the JCS made the "base" force the centerpiece of his testimony before the Defense Base Closure Commission at the end of April.³⁶ April also saw major recognition of the Administration's efforts by a Soviet academic writing in Kommunist.³⁷

In his May 29th commencement address at the U.S. Air Force Academy, President Bush mentioned his previous announcement of a shift in defense focus, but did not expand on his original vision.³⁸ "Scooter" Libby³⁹ returned to Congress in early June, accompanied by the Deputy Director for Force Structure, Resource, & Assessment Directorate on the Joint Staff (J-8), Brigadier General William Fedorochko, Jr., U.S. Army.⁴⁰ Both testified further on details of the strategy and force structure. General Powell made note of the "Base" Force and reconstitution forces in his testimony before the Senate Foreign Relations Committee in July.⁴¹ The DoD's Conduct of the Persian Gulf Conflict: An Interim Report to Congress, published in July 1991, makes specific reference to the new national security strategy and links it to the Gulf war.⁴²

Reviewing the list of primary source documents, a number of substantial characteristics stand out. First, there appears to be a very "top-down" re-direction in defense strategy and force structure.⁴³ From the public record, there were only a handful of individuals who orchestrated the new concepts and there were few authorized spokesmen.⁴⁴ The usual indicators of a debate were absent - discussion by other senior military officials does not appear until well **after** the new concepts were articulated in public.

The second point is that, despite their obvious concern with Operations DESERT SHIELD and DESERT STORM, the Secretary of Defense and the Chairman of the JCS were simultaneously fashion-

ing the new national security strategy and force structure. The Secretary has stated repeatedly that there were two major elements underway with defense in late 1990 and early 1991 - the military buildup in Saudi Arabia and the new national security strategy and force structure. Secretary Cheney and General Powell were two of only a few people who were involved in both.

A third obvious matter is that the new national security strategy is nameless. Inside the Washington beltway, the strategy is known as the "new strategy," the "new Defense Strategy," the "President's strategy," and "the U.S. military's new regional contingencies strategy." It has also been referred to, informally, as the "Aspen Strategy," the "reconstitution strategy," and the "strategy for the new world order," but it appears that the Administration will let academia, or the press, select the title that will appear in the history books. In this paper, the strategy is uniformly referred to as the "new national security strategy."

Although it has taken some time, the new national security strategy and force structure now appear in the oral and written testimony and other writings of additional officials in the Pentagon. For example, Christopher Jehn, Assistant Secretary of Defense (Force Management and Personnel) appeared before Congress on April 9th and used General Powell's concept of four- force package with four supporting capabilities.⁴⁵ Similarly, Deputy Secretary of Defense Donald Atwood expanded upon the Aspen speech

in his address to the American Institute of Aeronautics and Astronautics (AIAA) on May 1st.⁴⁶

Air Force Chief of Staff, General Merrill A. "Tony" McPeak, made public reference to consolidating air forces into the new "base" force structure.⁴⁷ The U.S. Army Posture Statement reflects a thorough understanding and support of the new national security strategy.⁴⁸ Similarly, the Secretary of the Navy, Chief of Naval Operations (CNO), and Commandant of the Marine Corps jointly authored an article in the April 1991 U.S. Naval Institute Proceedings that makes specific mention of the Aspen speech and the new national security strategy.⁴⁹ The CNO also made specific reference to the Aspen speech and strategy in his April Sea Power article.⁵⁰

By the beginning of August, enough details of the President's new strategic concepts were available to make an in-depth assessment of the new national security strategy's impact. The one major document that has not yet appeared is the White House's 1991 edition of the National Security Strategy of the United States. This document must be evaluated for differences from what has been published elsewhere.

Perhaps the reason this document has not yet appeared, and the strategy lacks a formal name, is that the internal debate and discussion within the Administration has not ended. Rather than a "bottom-up" product of endless hours of staff work involving all the major defense and industrial participants, the new na-

tional security strategy is analogous to recent shifts in military doctrine in the USSR - with perhaps even more debate in the USSR that has yet occurred in the United States.

The President's New National Security Strategy

The major factor underlying the reexamination of America's role in the world, and its basic national security strategy, is the belated recognition by the Congress and Administration that the level of resources devoted to defense in the last decade cannot be sustained.⁵¹ If the United States consciously attempted to outspend the Soviet military in a competitive strategy designed to bankrupt the Soviet economy, then the strategy succeeded. Unfortunately, American defense spending contributed to, but is not a principal cause of, the U.S. budgetary deficit.

Apparently, American defense spending will be reduced on the order of 25 percent under the new national security strategy and the "base" force. This reduction is not simply the low end of a periodic cycle of fluctuating defense expenditures -- it is a recognition that the total resources devoted to defense need not be as high so long as the current political climate remains.

Another fundamental component of the President's new national security strategy is that, assuming a two-year warning of a Europe-centered global war with the USSR, the U.S. can generate wholly new forces - rebuild or "reconstitute" them if necessary. Specifically, current forces deemed unnecessary, will be disbanded, not put into the reserves, since the risk is deemed acceptable.

Reconstitution is **not** the same thing as mobilization or regeneration - it is more like what the United Kingdom had planned during the interwar years, when it assumed that up to ten years of strategic warning would be available. New defense manufacturing capability and new forces and military would be built; essentially from the ground up. Preserving this capability means protecting our infrastructure and the defense industrial base, preserving our lead in critical technologies, and stockpiling critical materials. Preserving our alliance structure is another element of our ability to reconstitute a more significant forward-based military presence when, and if, it is ever again required.

Secretary Cheney said shortly before his departure from Moscow in October, that "We are changing our strategy and our doctrine as a result of changes in the Soviet Union and changes in Europe. We no longer believe it is necessary to us to be prepared to fight a major land war in Europe. . ." The shift in focus from the Soviet threat and a European centered global war is a **major** change in both program and war planning. We will justify procuring defense programs for reasons other than those routinely used since the end of World War II. We will also need to immediately review existing war and contingency plans for their responsiveness to the new political realities.

The estimated two-year warning is predicated upon the assumptions that all Soviet ground and air forces will withdraw to the homeland, that a Conventional Armed Forces in Europe (CFE)-

like parity will exist from the Atlantic to the Urals, that the Soviet Union will remain inwardly focused, and that NATO and its members intelligence services are functioning. After events in the Soviet Union this past Winter, Secretary Cheney adopted a more cautious note on expected Soviet behavior in his testimony to the House Appropriations Defense Subcommittee on February 19th, and in subsequent discussions and reports.

Cheney told the Congress, in February, that the Administration was disturbed at untoward events in the USSR and reserved the right to return before Congress and change the assumptions that underlay the new national security strategy and "base" force and, therefore, the programs that were requested from the Congress.⁵² In his February 21st SASC written statement, General Powell tied the removal of a "short-warning attack by massive Soviet conventional forces" to the ratification of the CFE Treaty. This was repeated during his July 1991 Senate testimony. In the meantime, Soviet forces are slowly being withdrawn to the homeland, conventional arms control agreements have been signed drawing down forces drastically, and the USSR remains inner-focused.

Another element in the new national security strategy is an emphasis on technological breakthroughs that will change military art. Secretary Cheney first addressed this in his February remarks to the SASC. Changes in military art occurred during the inter-war years with the development of *blitzkrieg*, carrier-based

strike naval air, and amphibious warfare capabilities. The Soviet military has long discussed the "Revolution in Military Affairs" that occurred after World War II and the advent of nuclear weapons and long-range means of delivery. Senior Soviet military officers have been warning of another "revolution" in the near future.⁵³ After the splendid performance of U.S. weapons during Operation DESERT STORM, it appears that their worst fears were justified.⁵⁴ The coming revolution will present enormous challenges and opportunities in doctrinal and strategy development.

Among General Powell's more frequent themes in his writings and speeches over the past year were enduring realities and emerging defense needs. Under the category of enduring reality, the Chairman lists Soviet military power, vital interests across the Atlantic, in Europe and the Middle East, and in the Pacific, and the unknown threat - the crisis that no one expected. The new national security strategy and the associated "base" force are designed to meet these challenges by providing a less Soviet/European-centered and more flexible military capabilities which will meet America's security requirements as we enter the next Century.

The cornerstone of American defense strategy will remain deterrence of aggression and coercion against the U.S., its allies, and friends. Deterrence is achieved by convincing a potential adversary that the cost of aggression, at any level, exceeds any possibility of gain. To achieve this goal, the U.S.

will continue its modernization of strategic nuclear forces and associated command, control, and communications capabilities.

The U.S. nuclear deterrence strategy will remain committed to fostering nuclear stability, an environment in which no nation feels the need to use nuclear weapons in a first-strike. The U.S. is committed to improving its strategic nuclear defensive capabilities. One new area for strategic nuclear warfare will be to respond flexibly to lower levels of aggression. Strategic defenses can be effective in countering the growing threat of ballistic missiles from nations other than the USSR.

Deterrence is often thought to involve only nuclear weapons, but under the new national security strategy, we should expect to see further investigation of deterrence of conventional warfare without the explicit threat to use nuclear weapons. Other major elements of the new national security strategy include forward presence, crisis response and collective security. Although the strategy acknowledges solidarity with existing allies, the U.S. is likely to have enduring interests with perhaps more ad hoc coalitions and friends than inflexible alliances. Such coalitions or allies are vital for the reintroduction of formidable American military power overseas.

There is a risk that the end of the Cold War may bring an increased risk of regional conflicts and greater unpredictability in the international security environment. Today's crises are

extremely dangerous due to the proliferation of advanced weaponry and weapons of mass destruction and the demonstrated willingness of Third World nations to use them. General Powell reminded Congress in February about Operation DESERT STORM where: "We are clearly at the 'high end' of technology in a conflict with a so-called 'Third World' nation."

High technology weapons in the hands of Third World nations include: modern tanks, ballistic missiles and artillery, air defenses, tactical air forces, cruise missiles, and diesel submarines. These make conflict in the Third World increasingly destructive and lethal. U.S. crisis response forces will provide presence, and the ability to reinforce with adequate forces to prevent a potentially major crisis from escalating or to resolve favorably less demanding conflicts.

For ease of budget discussion, the U.S. often has used an illustrative planning scenario. Any planning for contingency responses by the U.S. should include the ability to react to more than one "canned" predicament or a single scenario. The JCS have now developed a family of likely (and perhaps even unlikely) events for which the U.S. may elect to commit military forces.

The conventional conflict scenarios now used by the JCS are contained in this year's JMNA. They range from peacetime engagement to war escalating from a European crisis with full mobilization. Contingencies include: (1) counter-insurgency/counter-narcotics; (2) lesser regional contingencies, with two sub-cases

(2,000 and 6000 nautical miles from the U.S.); (3) a major regional contingency in Korea; and (4) a major regional contingency in Southwest Asia.

The JCS recognize that not all crises will evolve in the same manner. The JMNA outlines four possible types of crises: (1) a slow-building crisis; (2) a fast-rising crisis; (3) imminent conflict; and (4) conflict. The length and intensity of combat, for planning purposes, is assumed to be 450 days for counter-insurgency/counter-narcotics, 90 days of low-mid intensity for lesser regional contingencies, 120 days of mid-high intensity for major regional contingencies, and more than 50 days of mid-high intensity for a war escalating from a European crisis.

Responses to these contingencies are contained in a series of measured response options. Responses could include a flexible minimal force deterrent response, a major deterrent response (Operation DESERT SHIELD), and more worst-case responses where combat begins soon after the insertion of troops or simultaneously. This program of contingency types and measured responses appears to be a building-block and force sequencing approach to crisis management.

According to Secretary Cheney's February Congressional testimony, the U.S. will also devise a peacetime strategy to deter low intensity conflict, struggles threatening international

stability. A dynamic "peacetime engagement" strategy to promote democracy, nation-building, justice, free enterprise, economic growth, and to counteract local violence, terrorism, subversion, insurgencies, and narcotics trafficking can be accomplished primarily by security assistance programs as well as other instruments of U.S. national power.

In his Aspen speech, the President alluded to maintaining a forward presence by exercises. General Powell stated at RUSI in December that forward presence includes military assistance programs. In his February testimony to Congress, General Powell expanded his definition of presence to include, but not be limited to: stationed forces, rotational deployments, access and storage agreements, combined exercises, security and humanitarian assistance, port visits and military-to-military relations. The JMNA adds combined planning, nation-assistance, peacekeeping efforts, logistic arrangements, supporting lift, and exchanges to the list of forms of military presence. These expanded definitions should be viewed as attempts to ensure that all planned future activities will satisfy the requirement to maintain an overseas presence with a smaller force.

After assessing the military threats and the recommended Defense Program, the JMNA concludes that ". . .the Defense Program provides minimum capability to accomplish national security objectives." It is to this program that we will now turn.

The "Base" Force

Although details of the President's new national security strategy are still being debated, active duty and ready reserve forces are likely to decrease significantly. According to the initial report in the New York Times, the "bottom line" numbers discussed in June at the White House were:

- Army: 12 active, 6 ready reserve divisions (currently 18 active & 10 reserve), and 2 "cadre" or reconstitutable reserve divisions
- Air Force: 25 active & reserve tactical air wings (currently 36)
- Navy: 11-12 aircraft carriers (currently 14)
- Marine Corps: 150,000 personnel (currently 196,000)

Subsequent reports in the media and the force levels delivered to the Congress by the Administration are slightly higher, and reflect budgetary negotiations that parallel the developing new national security strategy. Force levels discussed in more recent reports included: a Navy of 451 ships (down from 545), including 12 deployable aircraft carriers and one devoted to training, 13 carrier air wings (CVWs), 150 surface combatants, with no battleships; a three Marine Expeditionary Force (MEF) Marine Corps of 160,000 personnel with simultaneous amphibious lift for the assault echelons of 2½ Marine Expeditionary Brigades (MEBs); fifteen active and eleven Air Force tactical fighter wings (TFWs), and 181 strategic bombers (down from 268). As the U.S. government attempts to complete a new budget cycle, we will see numerous other force levels suggested and debated. The initial New York Times report should be viewed in the context of a minimally acceptable force that probably was agreed to by the participants before events in Iraq and Kuwait.

Sometimes termed the "base" force, the new force structure advocated by General Powell will be organized into four basic military components: Strategic nuclear offensive and defensive; Atlantic; Pacific; and a Contingency Force; and four supporting capabilities: Transportation, Space, Reconstitution, and Research and Development (R&D).⁵⁵ This force structure and supporting capabilities are not contained in the President's speech but were developed parallel to and in support of the President's new national security strategy. What constitutes those forces will be debated throughout the next year. These "Forces" are not meant to represent new commands, but rather force packages much the same that "Tactical Air Forces," according to the annual DoD posture statement, includes aviation forces assigned to the Air Force, Navy, and Marine Corps.

The Strategic Force

The Strategic Force would include those offensive forces that survive the START process, where numbers like 4500 and 3000 warheads for each side have been discussed openly during the past year. In their February Congressional testimony, Secretary Cheney and General Powell stated that they were prepared to reduce strategic bombers from 268 to 181, halt the construction of *OHIO* class ballistic missile submarines (SSBNs) at eighteen, not retrofit all of those submarines with the more advanced *TRIDENT II* (D-5) missiles, and consider only the *PEACEKEEPER* (MX) rail garrison intercontinental ballistic missile (ICBM) and small ICBM as R&D programs, without plans for their deployment.

General Powell added that *PEACEKEEPER* should be funded through its first developmental test. Admiral Jeremiah told Congress in March that we would end with 550 ICBMs.

Reducing the offensive threat dramatically to such lower numbers suggests revisiting the suitability of strategic defenses. General Powell included the strategic defense initiative (SDI) in his American Legion, RUSI, and AFCEA speeches and his February 1991 article. Admiral Jeremiah outlined the need for SDI in December: ". . .against an attack by a major power. . ." and "also against Third World weapons of mass destruction delivered by ballistic missiles."

General Kutyna discussed the need for SDI and the Third World ballistic missile threat in his January Space Day briefing. He specifically noted Libyan Colonel Qadhafi's April 1990 statement that he would have fired missiles at New York had he the capability, when previously attacked by U.S. forces.⁵⁶ President Bush said in his State of the Union address in January that SDI would be refocused on providing protection from limited ballistic missile strikes against the U.S., its forces overseas, and friends and allies.⁵⁷

In his February 1991 testimony to Congress and subsequent written report to Congress, Secretary Cheney outlined a reorientation of SDI to a system of Global Protection Against Limited Strikes (GPALS) -- indicating that it would be space, ground, and

sea-based.⁵⁸ The initial objective of GPALS would be protection against accidental, unauthorized, and/or limited ballistic missile strikes. The system should be only half the size of the Phase I plan associated with SDI.⁵⁹ It is likely that strategic defenses will at least continue as an R&D program.

Although not specified in any speeches and media accounts, an obvious area that demands clarification is the possible increased nuclear role for naval and air forces replacing ground-based weapons withdrawn from Europe under current and future arms control agreements. General Powell stated in both speeches in December that the U.S. remains committed to a triad of offensive forces, but that we would probably increase reliance on sea-based systems. In addition, he stated in the AFCEA speech that ". . . we must make sure that our residual Strategic Forces are second to none."

The Atlantic Force

The conventional military forces of the U.S. appear to be headed for both reductions and restructuring. The Atlantic Force will include residual forces in Europe, those forward-deployed to Europe, and the continental U.S.-based reinforcing force (including heavy ground forces). The Atlantic Force would contain a significant reserve component. This force would be responsible for Europe, the Middle East, and Southwest Asia, recognizing that in the future the Middle East threat is on a par with that to Europe, thus demanding the same type of response. That this force is not called the European Force indicates both the shift

in emphasis of the new national security strategy and the apparent desire to alter the concept for employment, and perhaps command, of the forces normally assigned to the Atlantic, European, and Middle Eastern theaters.

General Powell stated in his December RUSI speech that the residual Atlantic Force retained in Europe would consist of a heavy Army component (defined as perhaps at Corps strength) with supporting air forces. In his testimony to Congress in February, General Powell stated that the European forward-based Atlantic Force would consist of mechanized and armored ground forces.

In his March testimony to Congress, Admiral Jeremiah gave the first UNCLASSIFIED breakdown of exactly what was destined for the Atlantic and other Forces. These figures were later confirmed by General Powell's testimony to the Defense Base Closure Commission. The U.S. would retain in Europe: 2 Army divisions and about 3 Air Force TFWs. The military prefers to discuss residual capability in terms of combat units, while others have suggested a force expressed in terms of numbers of troops. For example, the August 2, 1990 New York Times report discussed 100,000 - 125,000 military personnel remaining in Europe as part of the Chairman's revised force structure, although a 50,000 - 100,000 level was openly discussed at the IISS conference.

In his AFCEA remarks, General Powell further stated that forward presence for the Atlantic Force means Marines in the

Mediterranean and strong maritime forces. In his testimony to Congress in February, General Powell stated that the European forward-based Atlantic Force amphibious forces should be capable of forced entry operations. According to Admiral Jeremiah, in March, the residual maritime forces in Europe will be one carrier battle group (CVBG) and an amphibious ready group (ARG). The JMNA refers to an Atlantic Force with one CVBG and one Marine Expeditionary Unit (MEU) deployed continuously in the Mediterranean Sea or eastern Atlantic Ocean. The notional force size of a MEU is 2,500 personnel with fifteen days combat sustainment. This is hardly a residual European-based capability for significant forced entry.

In his AFCEA remarks, General Powell stated that forward presence for the Atlantic Force means access in the Middle East, Allied interoperability and flexible command, control, and communications systems, and military assistance programs. All spokesmen have told Congress that there will also be some residual presence in the Middle East.

Atlantic Force forward presence will be backed by a powerful and rapid reinforcement capability. In his AFCEA address, General Powell stated that Atlantic Force reinforcement and sustaining forces capability would consist of a mix of active and reserve heavy Army divisions and tactical fighter aircraft. In March, Admiral Jeremiah identified that capability as consisting of 4 active, 6 reserve, and 2 cadre reserve Army divisions,⁶⁰ 2 active and 11 reserve Air Force TFWs, 5 Navy CVBGs, 2 USMC MEBs, and the

USMC reserve component. Each MEB has a notional force size of 16,000 personnel with thirty days combat sustainment.

The Atlantic Force will be the backbone of America's future conventional deterrence for an area of the world that has dominated defense thinking for fifty years. Although there is no specific reference to dual-committing forces from one theater to another, it should be noted that Japan-based U.S. forces participated in Operations DESERT SHIELD and DESERT STORM. It should also be obvious that if we reduce our residual force in Europe to those outlined above, it would strain them to be dual-committed to the Contingency Force.

The Pacific Force

In September, General Butler stated ". . .that the U.S. could undertake a prudent, phased series of steps to reduce modestly our force presence in Korea, as well as Japan and elsewhere." General Powell told Congress in February that ". . .we can initiate a gradual transition toward a partnership in which ROK forces assume the leading role on the Peninsula. However, should deterrence fail, in-place and reinforcing US forces would still be required to blunt, reverse and defeat the type of short-warning attack that North Korea is still clearly capable of mounting."

The Pacific Force will include a modest and chiefly maritime residual forward-based and forward-deployed force in Korea, Japan

and elsewhere in the theater, and reinforcing forces located in the continental U.S. Admiral Jeremiah outlined that modest force in his March testimony. In Korea, we will initially retain one Army division and 1-2 Air Force TFWs; in Japan, 1-2 Air Force TFWs and one home-based Navy CVBG. A MEU will operate in the Western Pacific for most of each year.

General Powell stated in his December RUSI speech that "the bulk of American Army and Air Force power in the Pacific would be as reinforcements . . . using Hawaii, Alaska, and the continental United States as springboards." Admiral Jeremiah defined that reinforcement in Hawaii and Alaska as a light Army division (probably the 25th Infantry Division), an Air Force TFW, and a USMC MEB. In the continental U.S., there would be an additional Marine Corps MEB and 5 Navy CVBGs. Modest reserve components in Alaska and Hawaii would be allocated to the Pacific Force.

In his AFCEA address, General Powell stated that "In short, the Pacific Force would continue our very successful economy of force operation in this critical region." It is unlikely that the modest-sized Army and Air Force Pacific Force assets would have a dual-commitment to the European theater in a revitalized "swing strategy" but it is clear that any substantial land war in Asia would require "borrowing" forces from elsewhere.

Is there a need to retain expensive overseas bases in the Philippines, and elsewhere, under the new strategic concept? If the Cold War was our original justification for the presence of

large forces in the Pacific, and if the Cold War is over, then it is ended in the Pacific as well.⁶¹ If forces and bases are to be permanently retained overseas, it should be for other reasons, and those reasons should be clearly articulated and debated in Congress. The Congress and American public may well ask why the U.S. should remain unilaterally committed to defend nations which are not obligated to assist the U.S. in its own defense. If the U.S. significantly reduces its forces in Japan, there is a possibility that effective arguments will be provided to increase the size and/or capability of the Japanese Armed Forces. Any such possibility will be watched very carefully by China and many other Western Pacific nations.

The Contingency Force

Perhaps the most dramatic innovation of the Chairman's recommended force structure is the creation of a Contingency Force based in the continental United States.⁶² The Contingency Force, according to the guidelines in the President's Aspen speech, will be shaped by the need to provide an overseas presence and response to regional contingencies - not to return quickly to Europe. It appears that the Contingency Force will assume responsibility for those areas of the world not covered by the Strategic, Atlantic, or Pacific Forces. By inference, that would appear to be Latin America, Africa, and island nations, not the Middle East/Southwest Asia.⁶³

Continental U.S.-based contingency response forces are not a new idea. In the 1950s and early 1960s, the JCS and the military services experimented with a series of similar schemes, eventually abandoned by the Kennedy Administration. A U.S. Strike Command existed from October 1961 - December 1971 as a Unified Command. Similar arrangements involving varying commands have, from time to time, been responsible for the Middle East and South Asia.

Once the U.S. Army created a Strategic Army Corps (STRAC) consisting of two divisions. Air Force Tactical Air Command (TAC) as well as Navy and Marine Corps units, not otherwise allocated to other C-in-Cs, were assigned to the U.S. Strike Command. Similarly, the old Rapid-Deployment Joint Task Force (RDJTF) was another precursor to the proposed Contingency Force.

General Powell stated in his December speeches that the Contingency Force would have a very small Reserve component. Later testimony and articles reveal that this is comprised primarily of airlift and supporting forces - not combat capability. The Army and Air Force will apparently commit 4-5 divisions⁶⁴ and 7 TFWs to the Contingency Force. According to the Army Posture Statement, contingency response divisions will be structured to sustain deployments for about thirty days without augmentation by reserve components.

The Navy and Marine Corps will apparently provide dual-committed forces from the Atlantic and Pacific. Most of the

rapid response sealift, all intertheater airlift, and all special forces would belong to the Contingency Force. The JMNA additionally included the following in their definition of the Contingency Force: Army airborne, air assault, light, and highly mobile heavy divisions, Air Force long-range conventional bombers, and Navy attack submarines.

General Butler provided the following detailed description of how the Contingency Force would function. The first stage of a Contingency Force to be used in what he termed a "graduated deterrence response," and, for program planning purposes, would consist of (in the order stated): (1) Army light & airborne divisions, (2) USMC MEBs, (3) Special Operations Forces, and (4) selected Air Force units.⁶⁵ At his AFCEA speech, General Powell used a different order: (1) light Army forces, (2) mixed Air Force and Navy units, (3) Marine Corps units, and (4) units from the Special Operations Command.

According to General Butler, this initial component of the Contingency Force would be buttressed as necessary by: (1) carrier forces, and (2) amphibious forces. Normally the Navy prefers to promote the frequent call on carrier forces for immediate crisis response, and listing these forces in the second component of the Contingency Force probably reflects the land orientation of the concept. It would be wholly illogical to assume that the U.S. will require fewer responses by carrier battle groups in the future - indeed, a solid case can be made

that we will send the fleet more often in the future. The New York Times report listed carriers in the initial crisis response force but implied that they might **not** be forward-deployed.

The listing of amphibious forces in the second tier seems appropriate, reflects recent employment of the Marine Corps, and is consistent with the Commandant's recent statement on maneuver warfighting doctrine⁶⁶ and shift in identification of Fleet Marine Forces from "Amphibious" to "Expeditionary." Amphibious capabilities must be retained by the United States but in the context of contingency operations rather than a major assault on Europe -- General Powell's statement regarding the forced entry amphibious capability for the Atlantic Force will likely be clarified. If another D-Day type invasion were ever required of American forces, amphibious forces would be among the forces reconstituted and built, as during World War II.

The third tier of the Contingency Force appears to be heavier forces with the capability for long-term sustainability. Again, we have seen this application in Operation DESERT SHIELD. From their annual posture statement, it appears that the Army would prefer to see heavy units more clearly identified with the Contingency Force. General Powell's position appears to be that the Contingency Force could, if necessary, "borrow" heavy forces from the Atlantic Force. He stated at AFCEA that the Contingency Force ". . . would draw as necessary from other larger Forces if it needed additional staying power and sustaining power." On the other hand, in June 1991, Brigadier General Fedorochko told the

Congress that contingency forces would include 1-2 heavy Army divisions. U.S. planning for contingencies should also benefit from the experiences of France's *Force d'Action Rapide* (FAR) -- formed as an additional component to the French Army in 1983 -- with a mission similar to the proposed Contingency Force.

CNO, Admiral Frank Kelso, USN, told Congress in February, that a "base" force, 451-ship Navy, deploying about 30 percent of the available fleet, could provide an immediate response to a crisis anywhere in the world within seven days. It would comprise one Amphibious Strike Task Force, consisting of one CVBG and an ARG with an embarked MEU. A second CVBG could be available within fifteen days. A full MEB could arrive within thirty days.⁶⁷ Hence, the most the sea services could deliver to a crisis area under this plan is a token force within a week, and a force about the size of one Army light division with an additional few squadrons of aircraft within a month.

It would take the sea services a 40 percent deployment rate to respond to a regional conflict with a more robust combat capability: 3 CVBGs and a full MEF - notional USMC force size of 48,000 personnel with sixty days sustainment. With the costs of providing such a high deployment rate, it is unlikely that the Navy will recommend such a posture - given its desires to replace aging hardware. Deployment rates in excess of 40 percent are necessary for the sea services to simultaneously respond with 3 CVBGs and a MEF in one location and another carrier elsewhere.

Although the sea services logically could have been considered the core of the new Contingency Force,⁶⁸ the Army and Air Force can argue that they can provide faster airpower and combat capability anywhere in the world. Indeed, there have been arcane informal suggestions by Air Force personnel that their TFWs can be expressed in terms of CVBG equivalents! Assuming that the U.S. will involve itself in overseas contingency operations only with the cooperation of host nations, and with the support of coalitions, then the Air Force/Army response may appear more cost-effective.

The clue to understanding the new crisis response portion of the new national security strategy is that it is not keyed to one service, or even to the active component having a unilateral capability. Future crisis response appears to be a joint responsibility with a mix of active and selected reserve units.

Transportation

According to General Powell, transportation is one of the major supporting components to the new national security strategy. Mobility programs proposed by the Secretary of Defense in his annual report included the ability to return to Europe with 4 Army divisions, 30 Air Force tactical fighter squadrons, one USMC MEB, and their associated support within 10 days. Additional forces would be provided within 2-3 months. DoD will continue to build toward prepositioned equipment in Europe for 6 Army divisions and their associated support elements.

For contingencies outside Europe, the goal is to provide 5 Army divisions, together with associated air and naval forces in about 6 weeks. Ground units would fly to a future crisis, much as forces assigned to Operation DESERT SHIELD did to Saudi Arabia. Personnel will then either be married with prepositioned equipment or with equipment that arrives via sealift.

Prepositioning for ground and air forces is part of the complete package that must include intertheater lift. The equipment that must be prepositioned for even a light Army division, essentially a duplicate set, will probably make prepositioning a less attractive alternative to the Army than fast sealift. When addressing fast sealift, the military must make a tradeoff between speed and tonnage.

The U.S. is obligated to retain sufficient lift to support immediate contingency operations by either the Atlantic or the Contingency Forces. Lift requirements for the Pacific Force are less clear. Initial lift requirement will probably include the capability to continue concurrent operations but it is unlikely that funding will be provided for simultaneous crises, given the years of failure to provide lift for a 1½ war strategy. The March 1991 JMNA states that the U.S. can deploy forces in all program scenarios except: (1), when two regional contingencies occur sequentially or concurrently; and (2), in the early weeks of a short-warning war in Southwest Asia.

Lift capability disclosed during Operation DESERT SHIELD will be studied and may result in new requirements and possibly additional assets.⁶⁹ The U.S. already has special lift assets and a robust prepositioning program, but may learn from recent experience that modest increments of additional lift or prepositioned equipment are required.

Lift will probably include a modest government-owned capability in a caretaker status and civilian air and sea transportation assets engaged in normal peacetime trade. The U.S. generally met its lift requirements for Operation DESERT SHIELD with a combination of existing assets, those taken from trade, and charters of foreign vessels.⁷⁰ The new national security strategy will probably make similar assumptions.

Air and sealift for a major NATO war in Europe is in the category of forces that could be reconstituted during the two years' warning that future program planning now assumes is available. Reconstitution of lift should include: that provided by allies, charters from foreign non-aligned sources, and the activation of assets in storage. It will be hard to justify the retention of older, World War II-era ships, as a part of a restructured National Defense Reserve Fleet.

Unilateral Capability?

Among the more interesting questions regarding the Contingency Force, and potential intervention by the Atlantic or Pacific

ic Forces, is whether the planning assumptions include a unilateral capability - or is the participation of host nations and allies understood? Although Secretary Cheney told the House Appropriations Defense Subcommittee in February that the U.S. "will retain the ability to act alone," the March 1991 JMNA assumes that host nation support and sufficient infrastructure is available for any **major** regional contingency. At the end of April, General Powell told the Defense Base Closure Commission that: "Frequently, access ashore will be contested or unobtainable, requiring employment of sea-based forces."

"Acting alone" **must** be viewed in terms of the level of warfare being discussed -- strategic (a major war such as World War II), operational (campaign sized similar to Operations DESERT SHIELD or DESERT STORM), or tactical (similar to the invasion of Grenada or Panama); and whether such operations are essentially nuclear, maritime, or air/land warfare. The U.S. will probably reserve the right, and maintain the capability, to take unilateral conventional forces military actions at the tactical-level, but probably **not** at the strategic or operational levels of air/land warfare. In other words, the strategy only calls for a modest unilateral tactical capability, about that provided by an Amphibious Strike Task Force or Maritime Prepositioning Force (MPF) MEB. If the U.S. remains committed to maritime superiority, then it could still mount a unilateral theater campaign at sea.

However, it should be assumed that the U.S. could not unilaterally mount an opposed contingency operation or campaign such as DESERT SHIELD with the "base" force. Further, one could argue, that the U.S. probably does not have this operational level capability today. Both the Secretary of Defense and the Chairman of the JCS were careful in their testimony to the SASC in February, to project that the "base" force could handle an Operation DESERT SHIELD or DESERT STORM but that it might have taken longer before the forces were prepared to go on the offensive. This answer assumes, however, that such operations are coalition - not unilaterally-based.

The U.S. long has assumed that a major war (at the strategic level) would be pursued only as a part of alliances, such as NATO - hence there is no real change at this level of warfare. Indeed, continued good working relations with allies is a specific goal of the new national security strategy and a vital building block for the reconstitution of a substantial U.S. military presence in Europe. Similarly, the U.S. has always maintained a unilateral capability at the tactical level of warfare and there is no reason to assume that it will not do so in the future.

The Administration may amplify its views on this issue once the Services point out the significantly different force structure required for the varying assumptions. If the U.S. desires a unilateral capability to intervene in the world without host nation support, on the order of an Operation DESERT SHIELD, then the current force structure will remain high -- perhaps too high

to absorb the imminent budget reductions. If the budget drives the problem, we are less likely to field a force that can intervene without the assumption of host nation and coalition support. This issue will probably be a major focus of discussion during the next budget year.

NATO Initiatives

U.S. forces in Europe, and elsewhere, cannot be changed without considering long-term commitments to allies and the planned employment of American resources in combined operations under NATO command. Most Europeans initially assumed that the U.S. Army and Air Force would either remain as a major element in-theater, or maintain large standing active or Ready Reserve forces which could return to Europe within a reasonable period. This may not be the case, and America's promise to return may be only quickly with a smaller existing active and reserve force mix, and after two or more years with reconstituted additional forces.

While the United States is considering major changes in strategy and forces, so is NATO. The July 1990 NATO London Declaration stated that "NATO will rely more heavily on the ability to build up larger forces if and when they might be needed."⁷¹ The July Declaration stated that the Alliance too was preparing a new "military strategy moving away from 'forward defense'. . .towards a reduced forward presence. . ." The declaration also stated that "NATO will field smaller and restructured active forces" and "will scale back the readiness of active units, reducing training requirements and the number of exercises."

General John R. Galvin, U.S. Army, NATO's Supreme Allied Commander Europe (SACEUR), told the Defense Planning Committee (DPC), in December 1990, that he envisages a change in his pri-

mary combat mission from flexible response and forward defense to crisis response.⁷² The centerpiece of this capability would be a standing Rapid Reaction Corps centered about a multinational corps and the existing Allied Command Europe (ACE) Mobile Forces. Should these standing forces not be able to support political decision making, then additional forces will be mobilized and regenerated or "reconstituted."⁷³

Although NATO is attempting to reach an alliance-wide agreement on force structure, many NATO nations are undertaking unilateral force reductions. Germany is reducing its forces to 370,000 personnel, about half of whom will be placed in the reserves.⁷⁴ France is withdrawing all its 55,000 officers and men from Germany.⁷⁵ The U.K. announced a plan to reduce the British Army on the Rhine by about 50 percent,⁷⁶ demobilizing most of the troops but retaining regimental identifications. There are reports of additional unilateral cuts. These unilateral decisions by member nations will have dramatic impacts on the NATO war-fighting C-in-Cs plans for military operations and campaigns in the event of war.

SACEUR's realistic residual U.S. force for Europe apparently is one corps, several Air Force wings, and the Sixth Fleet (which includes around 20,000 personnel ashore).⁷⁷ Planning in Europe should include the possibility of an eventual total withdrawal of American combat units from the continent. Were this to happen, would other allied NATO ground forces remain unilaterally forward-deployed, and if so, where?

The NATO London Declaration and General Galvin's DPC remarks indicate a new NATO war fighting strategy is being drafted to replace the current strategy of flexible response (MC-14/3). The strategy perhaps may be identified as MC-14/4 or have a new series designation to signify the fundamental changes that it reflects. The new overall NATO strategy will be based upon newly calculated national commitment force levels. It is not clear if SACEUR, primarily a land theater and under the command of an Army general, will take the lead in the development of a new NATO maritime concept of operations, in his areas of responsibility (which includes the Mediterranean), or leave that to his maritime counterpart - SACLANT.⁷⁸

Unilateral programming actions for future forces being undertaken by individual NATO nations, like the U.S., will obviously affect the warfighting strategy that NATO as a whole can implement as those programmed forces become operational. Current national programming actions may stem from revised national views on war, the threat, or the resources available for defense, or any combination of these. This has happened in the United States.

NATO is attempting to obtain a quick consensus on its war-fighting strategy so that national programming actions will support its new strategy, rather than limit it. In October 1990, General Galvin reminded us that MC-14/3 took nearly six years to

write and be approved and that the General Political Guidance for the employment of Nuclear Weapons took fifteen years.⁷⁹ SACEUR stated, in addition, that the NATO process ". . .has to be completed within a year, or at most a couple of years." The Soviets, who have undergone a similar change in military doctrine and strategy, are anxious that NATO complete this process as soon as possible.⁸⁰ General Galvin told the IISS in February 1991 that he would present the new strategy before the Chiefs of Defense staffs of all the nations at their meeting in April 1991.⁸¹

The new NATO strategy will be based upon paragraph 20 of the London Declaration. According to General Galvin's remarks at IISS, NATO strategy will be responsive to peacetime, crisis, and wartime demands. Peacetime elements will likely include: enumeration of national prerogatives, maintenance of alliance cohesion by integration and multinational forces, intelligence and verification of arms control agreements, forward presence, active and reserve forces training, force generation preparation, and interaction with non-NATO forces.

The crisis response strategy will likely consider: readiness for the Rapid Reaction Corps, the quick reaction of the alliance to emerging crises, communication with adversaries, planned sharing of risks and burdens, escalation and deescalation, and preparations for controlled mobilization and demobilization. New political realities require an enhanced political component to crises that erupt in the NATO area. For example, the initial reaction to a crisis in the territory of the former German Demo-

cratic Republic might include the NATO German Corps deployment including **avoiding** contact with remaining Soviet troops. The political goals of a future crisis appears to be - control and deescalate.

Initial plans for crisis response forces include a brigade-size mobile unit that could respond within 72 hours and a Rapid Reaction Corps that would become available in 5-7 days.⁸² The latter would include a heavy armored British division, another light armored British division, two new multinational divisions, parachute forces, commandos, and marines. The U.S. might contribute as much as one division.

NATO initiatives include more emphasis on mobility and multinationality. Multinational corps with two or three divisions from different countries parallel existing arrangements for multinational maritime forces. Multinational maritime arrangements may be expanded to other areas and to include other types of forces. General Galvin told the IISS that he would present his third draft of a revised force structure to the Chiefs of Defense staffs in April, 1991. He speculated that NATO would field about half of its existing force levels in the Central Region with about the same forces in the North and South.

NATO strategies will likely not be so strongly based upon the threat; they will reflect the need to defend NATO member states territory or NATO interests. If interests are to be

defended, this involves NATO in out-of-area operations -- something the Allies have traditionally been reluctant to formalize as an Alliance role. There is an open debate on whether NATO should assume this role, or whether such a role should exist under some other umbrella organization - or at all?

All of the following actions are necessary: national programming planning to deal with future national force levels; national war planning to outline current plans to commit forces to NATO and for actions by forces retained under national command; and NATO war planning to deal with current and future forces they expect to commit to the Alliance. It is very likely that initially, there will be significant differences between the strategies articulated for each case.

The Soviet Threat

Underlying any reexamination of America's role in the world and America's or NATO's basic national security strategy are the monumental changes in the international security environment in recent years. Strategies are designed to cope with implied or explicit threats; the profound changes in the threat, therefore, have direct bearings on the strategies that the U.S. and NATO need and will develop. Rather than enumerate the revolutionary events, it is appropriate to first analyze the impact of these changes on the Soviet C-in-C of the Western Theater of Strategic Military Actions (TVD).

NATO is aware of the capabilities of Soviet hardware, military exercises and deployment, and military-technical aspects of military doctrine, indicating a real strategy and capability for offensive warfare by the Western TVD Commander. Employing this offensive capability was termed, by the Soviets, a theater strategic military operation. The Manchurian Operation they fought against Japan near the end of World War II strongly resembled the theater strategic operation of which we believed the Soviets capable of recently.⁸³

In the Western TVD, initial offensive military operations by a front were assumed to achieve advance rates of 40-60 kilometers per day to a depth of 600-800 kilometers.⁸⁴ A normal frontal operation lasted about 15-20 days, meaning that overall, two fronts should have handled all of Western Europe in about 25-30

days. NATO took this threat seriously and prepared its own forces and counterstrategy accordingly.

It is not clear whether the Soviets ever saw themselves as the fierce warriors the West did. They had a much clearer picture of deficiencies in the military-industrial sector, that have only now become apparent to the West. They recognized the incipient problems if they attempted a theater-wide military operation with a simultaneous surge effort by multiple fronts. It is doubtful that they even felt capable of managing such a theater strategic offensive using sequential operations.⁸⁵

With the nagging self-doubt in their ability to manage a theater strategic military operation before the sweeping recent political changes in Europe, the problems are infinitely more complicated, with the reunification of Germany and the imminent withdrawal of Soviet forces from Germany, Hungary, and the Czech and Slovak Federal Republic. Even if Soviet forces remain in Poland for a few years, the Western TVD C-in-C cannot count on Warsaw Pact nations committing their armed forces to Soviet command. Indeed, the Western TVD C-in-C probably assumes that Eastern European military forces would oppose a Soviet forced reentry.

The Western TVD C-in-C cannot advise his political leadership that, under current or likely future conditions, it is possible to launch offensive military operations at the theater strategic level, against non-Soviet Europe with any degree of

confidence in successfully completing his assigned mission. The Western TVD C-in-C is probably driving his staff to develop new plans for the defense of the USSR from within their own borders and perhaps their forced and opposed reentry into Eastern Europe.

These assumptions dovetail remarkably with the declaratory Soviet military doctrine and strategy evidence we observed in the past few years. They also parallel the new draft military doctrine published in November 1990.⁸⁶ We have often seen Soviet deeds belie Soviet words, when they previously spoke of a defensive doctrine but clearly maintained forces for an offensive strategy. The Soviet Union is moving towards re-positioning all its ground forces within its borders, absorbing the first blow from an adversary, then having the capability and military strategy to repel the invasion to the Soviet border but not cross and continue the counteroffensive in enemy territory.⁸⁷

It appears that the traditional strategic missions of the Soviet Armed Forces, and the criteria for successful completion of those missions, have undergone significant revision. Formerly, total defeat of the enemy's armed forces in an armed conflict was demanded as the military's contribution to the overall war effort. Under the new defensive doctrine, the revised military requirement is to defeat the invading force and to prevent vertical and horizontal escalation, or the escalation of the conflict over time.

In a November 1989 interview, Marshal of the Soviet Union Sergei F. Akhromeyev, identified then as the military advisor to the Chairman of the Supreme Soviet, offered some very specific views on how long this defensive period would last. He implied that the role of the defensive, during the first few weeks of the initial period of a future war, was to allow the political leadership the opportunity to terminate the crisis before it erupted into a major armed conflict and war. If the political leadership failed, Akhromeyev implied that the military would then be unleashed to perform their normal function of crushing and decisively routing the enemy.⁸⁸

The new draft defensive doctrine attempted to deal with this issue of how long the defensive period would last. It states that "defense is the principal form of military operations with the beginning of aggression. Subsequent operations by the USSR Armed Forces are determined by the nature of the enemy's military operations and depend on means and methods of warfare he is using." The draft also reveals that the defensive mission of the Soviet Armed Forces in the event of aggression is to repel it, defend state sovereignty and territorial integrity, and create "conditions for the most rapid cessation of war and the restoration of a just and lasting peace."

A previous debate within the framework of Soviet military science covering the initial period of a war may prove instructive on the topic of initial defensive operations today. During 1922 - 1941, questions arose regarding how long border skirmishes

and diplomatic exchanges would last prior to total mobilization. Marshal of the Soviet Union Georgi Zhukov in his memoirs gives the interval as "several days" while Marshal of the Soviet Union Vasiley D. Sokolovskiy writes in his Military Strategy that the initial period might have lasted 15 - 20 days.⁸⁹

The political/ideological goal of traditional Soviet war termination strategy was to ensure that the aggressor could not again threaten the USSR, and that progress was made toward eventual peace ("mir") and a world socialist order. The political goals for war termination are now to prevent nuclear holocaust and simultaneously ensure the survival of the homeland (socialist or other).

We are receiving additional clear signals about "new thinking" in the USSR. Army General Mikhail A. Moiseyev, Chief of the USSR Armed Forces General Staff and USSR First Deputy Defense Minister, announced, in November 1990, a series of significant Soviet military reforms that parallel actions being taken by the U.S., NATO, and the general European community of nations.⁹⁰ Moiseyev's interview was followed by publication of the "USSR Ministry of Defense Draft Military Reform Concept."⁹¹

The first stage of the planned reform will last until 1994 and will consist of the complete redeployment and resettlement of Soviet troops now based on foreign soil. The second stage (1994-1995) will consist of the formulation of strategic groupings of

armed forces on Soviet territory with a new system for training and mobilization. The third stage will last from 1996-2000. In this stage, further reductions, reorganizations, and reequipping of forces will take place.

By the year 2000, according to the draft plan, strategic nuclear forces will be cut 50 percent (with additional cuts possible), ground forces by 10-12 percent, air defense forces by 18-20 percent, air forces by 6-8 percent, and administrative, research, and other combat forces by 30 percent. The number of generals to be cut is 1,300, officers - 220,000, and warrant officers and ensigns - 250,000. The overall armed forces will number 3-3.2 million personnel -- down from 3.9 million in the active forces today. Military authors tend to tie such drastic reductions to the **elimination** of weapons of mass destruction; rendering a military force incapable of conducting offensive strategic operations should not occur until the total worldwide destruction of all nuclear weapons.⁹²

Perhaps the most startling signal about "new thinking" is the proposal contained in an August 1990 article by a Soviet general officer attached to the General Staff Academy.⁹³ In this proposal, the Armed Forces of the USSR restructure themselves into three basic contingents, which show a remarkable resemblance to President Bush's new national security strategy and General Powell's "base" force structure. The proposal also appears to be entirely consistent with the subsequently published draft Soviet military doctrine. The USSR appears to be discussing its own

version of an active, reserve, and reconstitutable force strategy and base force.

The first contingent, in this new Soviet proposal, would comprise forces in a state of permanent high combat readiness. It would consist, in part, of new military services called the Nuclear Forces and Space Forces. The Nuclear Forces would comprehend the existing Strategic Rocket Forces, as well as appropriate units from the Air Force and the Navy. Space Forces would include existing Air Defense and Antisatellite Forces. These new services would remain under the direct control of the Supreme High Command.

The first contingent would also consist of highly mobile Ground Forces, whose strength and composition could change depending upon the international politico-military situation and the economic potential of the USSR. This force size would be sufficient to resolve a conflict in an individual region until relieved by forces of the second contingent. The new draft military doctrine referred to such a concept and specified that: "the first strategic echelon consists of troops of the border military districts and fleet forces. Troops of internal military districts form the strategic reserve."

Prior to the outbreak of the Great Patriotic War, the USSR deployed slightly more than one-half (56 percent) of its Ground Forces divisions, some 170 divisions and 2 brigades (2,901,000

personnel), to defense of the new state borders in the Western TVD.⁹⁴ The Soviets deployed 56 divisions and 2 brigades in the first echelon of its border-defense armies. Each first echelon division was responsible for some 100-120 km of the border when it followed mountains or rivers and 25-30 km in the most important axes. There were 52 divisions in second echelons and 62 divisions in reserve deployed some 25-75 km from the state border. The General Staff's May "1941 State Border Defense Plan" also provided for additional reserves in interior military districts. These reserve forces would be used to deliver counter-thrusts and man defensive lines 100-150 km from the new state borders.

The requirement for the future first contingent of Ground Forces does not appear to include the capability for offensive military operations at a theater strategic level -- hence it will be necessary to compare the Soviet experiences in the Great Patriotic War with future force levels. Initial estimates are a first contingent force of only 1.2-1.3 million servicemen allocated between the Ground Forces, Air Force, Air Defense and Space Defense Forces, and the Navy. Command and control would remain with the High Command of Forces in the TVDs.

The second contingent, according to this proposal, would consist of an additional 630,000-man reserve force. Up to one-third the first contingent would form the nucleus of the second contingent. Hardware and weapons for these reserves would be stored at depots and bases. This contingent would form the large

strategic formations necessary for major military operations in a war. The second contingent could probably mount an offensive theater strategic military operation -- but before it was organized, strategic warning would be provided.

The third contingent would embrace, in part, some 300,000 - 350,000 additional men undergoing between five and six months training for national service. The men would then serve for an additional five-six months with either first and second contingent forces, or a longer period in newly organized republican units, probably similar to the U.S. National Guard. Call-up will take place twice a year. These forces would augment troops in the field should war erupt. A second part of the third contingent would consist of these new republican units. The total strength of the third contingent would be some 600,000 - 700,000 servicemen. Due to more recent events in the USSR, it is unlikely that there will be continued support by the Soviet Armed Forces for strong republican units.

This proposal for reorganizing the Soviet military is but a proposal in a continuing internal debate over the programming for new forces.⁹⁵ The debate is not over and may be immaterial to a discussion of the problems of **current** war planning guidance. Except to the extent that debates over future forces give us insights on current thinking, many military leaders today retain their "old thinking" from the days that they were first social-

ized into the Army and it is this type of thinking that we would have to face if there was a war today.⁹⁶

The message for the West, however, is that if reorganization plans like this are implemented, and reductions in military capability include strategic nuclear and naval forces in the future, then Gorbachev's promise to eliminate the threat has come true. Even if the Soviets are found to be cheating on the margin with regard to CFE and other future arms control and confidence building measures in Europe, we should ask ourselves if they are in the position to once again mount the old theater strategic offensive operation? When confronted with that question, CFE "cheating" may more correctly be seen as an inability to provide exact numbers and locations which will be corrected when requested.⁹⁷ We must now consider the questions stemming from "what if peace?"

Issues For Discussion

The issues raised in the President's Aspen speech are numerous, complex, and require discussion. Among the most important are: how likely is the President's new national security strategy to appeal and take hold; how do we define our new goals and objectives for both program and war planning; what are the lasting impacts of Operations DESERT SHIELD and DESERT STORM; what are the new requirements for the intelligence community and for decision-making? What are the industrial aspects of the new national security strategy: technology requirements, R&D, investment strategy, reconstitution, and the impact on stockpiles? Answers to these questions will certainly have an immense impact upon DoD organizations and the need for a special transition period. Finally, there are obvious implications for arms control and military operations research and analysis. This section responds to the obvious questions, and perhaps suggests what else might be included.

Is the New Strategy Real?

It may be instructive to review another Presidential unveiling of a major programming strategy to seek parallels. When President Ronald Reagan announced his concept for SDI in March 1983⁹⁸ he explained how the U.S. and its allies planned to defend themselves against an attack by Soviet ICBMs. Both President Reagan's and Bush's speeches unveiling their new strategic concepts were just that; visions of a new strategy to be debated and

possibly adopted -- not necessarily an announcement of new governmental policy.

The strategy associated with SDI would be possible only if the Congress purchased the weapons systems associated with it. It would have been wrong to assume that current U.S. or NATO strategy was immediately changed to defend the U.S. against ICBMs, since neither the U.S. nor its allies had defensive forces which could engage such missiles.

Just as in 1990, in 1983 there occurred a series of briefings and speeches by supporting officials following the President's vision of a new defense doctrine. Then-Secretary of Defense Caspar Weinberger delivered a major speech explaining the basic concept.⁹⁹ A Blue-Ribbon panel of experts was commissioned to study the possible applications of technology to the strategy¹⁰⁰ and initial results of their deliberations began leaking to the public in late 1983. Not until the programming documents were delivered to Congress in February 1984 was the strategy for defense of homeland and allies under SDI fleshed out in official documents.¹⁰¹ Indeed, strategic defenses in the previous set of programming documents provided no hint that a new initiative was being contemplated.¹⁰²

Unlike the 1990 case, in 1983 the civilian academic community appeared to mobilize almost instantaneously and publish both supporting and critical assessments of the new doctrine, mostly newspaper Op-Ed pieces. It was months later before the public

saw more comprehensive treatments of the strategy and associated technologies. There was widespread interest in the technologies associated with SDI, primarily because of the opportunities for procurement business with the government and opportunities to work in the vanguard of science. What is less well recognized, however, was the great deal of "study money" used to flesh out the strategic concepts.

We should assume that President Bush's Aspen speech will also lead to substantial "study money" to flesh out the concepts he discussed. What remains to be seen is whether the studies will be completed before 1991 budget actions or faster than significant international events unfold.¹⁰³ Recent events in the Middle East shelved or sidetracked much internal examination of the new national security strategy and the expected critical evaluation from those outside government.

Under the American form of government, the announcement of a policy by the Administration is not necessarily an announcement of government policy. Indeed, SDI, although feared and attacked by the Soviet Union, and probably the cause for major decisions in the Soviet budget, never developed beyond an initiative, and full-scale evolution or deployment may not yet be feasible. On the other hand, the Bush Administration has been successful in working with the key power bases in Washington to push policies through with a minimum of debate.

Another case of a new strategic vision is also instructive. Both candidates George Bush and Michael Dukakis appeared to embrace the "competitive strategies initiative" during the last presidential campaign. The Annual Report to the Congress by the Secretary of Defense for Fiscal Years 1987 through 1989 included sections devoted to competitive strategies. Competitive strategies also appear in the 1987 edition of the President's National Security Strategy of the United States and in the United States Military Posture FY 1988, prepared by the Joint Staff. Competitive strategies, still an initiative, has never attained full policy status in the Executive branch of government and receives barely a mention in the 1991 annual posture statement by the Secretary of Defense. Despite having an extremely powerful weapon to use against the USSR today, the economic weapon, the West is not only not using this weapon but is actively trying to bail out the Soviet Union.

In short, before any new initiative becomes a funded government policy, vested domestic interests and America's allies will have opportunities to make their desires known. Whether they succeed in becoming a player in America's new national security strategy and "base" force structure will depend upon their political prowess.

Parliamentary governments, common among our NATO allies, may have some advantage in completing a comprehensive review of strategy and redirection of defense programs. Hence, it may be

easier for NATO nations to respond to this U.S. initiative and international events than it will for the U.S. to take action.

A good example of the verities of parliamentary forms of government, compared to the American government, in making major defense policy changes, is the review of the master strategy for Australian defense forces conducted from 1985-1987. In February 1985, the Australian Minister of Defense, Kim Beazley, employed noted strategist Paul Dibb to examine the current capabilities of the Australian Defense Force, describe the current strategic environment, set defense priorities and strategy, and define the appropriate future force structure.

Dibb issued his report in March 1986 and, after an adequate period for analysis and criticism, the government issued its own version in March 1987.¹⁰⁴ Concepts first outlined by Dibb were adopted by the Australian government, after a serious but brief (by American standards) debate and adjustment. They were then carried out by the Ministry of Defense and the Australian Defense Forces.¹⁰⁵ Such a relatively orderly process seldom occurs in the United States, and we should not expect debate over the President's new national security strategy to remain either bloodless or limited to American domestic political actors.

Defining Goals & Objectives in Programming & War Planning

Political-military strategic planning generally commences with: (1), a tabulation of the resources likely to be available, or (2), an assessment of the threat, or (3), an examination of

the goals and objectives to be attained. The planning process can start with any of these factors but it generally starts with different ones, depending upon the type of planning underway -- war planning for immediate combat operations or program planning for forces to be delivered in the future.

In wartime, planning often starts with a tabulation of the resources available - probably how the military started the process on December 8, 1941 -- after the Japanese attack on Pearl Harbor put significant portions of the Pacific Fleet out of action. Existing plans for war with Japan had to be revised based upon the numbers and types of surviving forces. Initial goals were limited by the resources available.

In wartime, nations may also turn first to an examination and analysis of the threat, especially when faced with the need to create major strategic plans insufficiently researched before the war. The USSR likely did this after the Germans invaded on June 22, 1941. Prior to being invaded by Germany, insufficient attention had been paid to fighting the Germans on Soviet soil on the strategic defensive. The Soviet military was forced to develop plans in short order and execute them according to a revised threat scenario.

War planning may also start with an examination, analysis, and reconsideration of goals and objectives. The U.S. and the Soviet Union had initial goals and objectives they attempted to

achieve in the initial stages of World War II. Generally these were limited by the newly revised resources available and the actual threat demonstrated by enemy capability. Later, however, the allies amassed sufficient forces to operate on the strategic offensive in all theaters and recognized that "unconditional surrender" was a possible goal. War plans could then be devised with primary consideration given to goals and objectives rather than resources and the threat. This also underscores that goals and objectives can, and often do, change during wars.

Much of the literature devoted to defense planning does not, however, concern actual war planning, but rather program planning, used to explain to legislators and the public why certain types of weapons systems and forces should be purchased and maintained. There is often some overlap between the initial program plans and subsequent program plans - but not always. For example, the *USS MIDWAY* was justified in 1940s programming plans to help defeat Japan. War plans in the 1980s included the *USS MIDWAY* defending Japan. Similarly, program plans after March 1983 included SDI but war plans written that year could not.

Program planning under the Planning, Programming, and Budgeting System (PPBS), in the United States, officially starts with an examination and identification of the threat. There have always been implicit unofficial discussions of the range of resources available and a general consensus on goals that preceded the threat examination. The consensus on goals is what is

being discussed in the President's new national security strategy.

Current U.S. and Soviet program planning has been drastically affected by the change in perceptions of the threat facing them. After decades of reliance on military preparedness to guarantee peace, each side apparently understands that what it considered reasonable steps for self-defense were perceived by the other side as evidence of aggressive intentions.¹⁰⁶ The American public, and therefore the U.S. Congress, has revised their world view, and let it be known that the levels of programming expenditure devoted to the Soviet threat are no longer required. It seems that the major driving factor behind the President's new programming strategy is the need to present a viable plan to maintain national defense in a climate of greatly reduced resources.

Program planning logically should start with goals and objectives but, in the past, this has rarely occurred. In general, a fundamental reexamination of goals and objectives has not been necessary given the generally stability of politico-military relations between the superpowers. Due to the major changes in the international political climate, we should also expect to see the U.S. debate whether its program (or even wartime) planning should include unilateral capabilities, or automatically assume standing alliance or ad hoc coalitions and host nations. There is a tremendous difference in programming based upon the assumptions made on this question.

Although the U.S. and NATO never had the opportunity to develop war plans a milieu that included forces envisaged under SDI, there is no need to delay immediate revisions of war plans for existing forces. There are significant changes in the international environment, especially the threat, and an urgent need to reduce defense expenditures - hence plans can be changed now. This includes our desire and ability to change now the planned employment of strategic nuclear forces.

Do we need to target facilities and forces in nations that clearly are no longer enemies? It is a fair assumption that we once targeted Soviet nuclear forces deployed in Eastern Europe. Presumably, we have technical ways to preclude nuclear warheads from exploding in the former German Democratic Republic now that this territory is part of a NATO member nation. But have we applied common sense to the nuclear targeting of other national areas?

What political benefit would be gained from targeting areas where restless nationalities are already struggling against the national government in the USSR? Will the Soviet military assume that these areas and Eastern Europe are "safe havens?" Will the USSR create targeting plans for areas in formerly allied nations? Can both sides change their targeting fast enough to respond to rapidly changing political events?¹⁰⁷ Do we have to render inoperative certain warheads in missiles with multiple warheads to

both meet our objectives of destroying military targets yet avoiding collateral damage?

Similarly, in the conventional realm, there is an obvious, immediate need to revise existing war plans - since NATO now controls both sides of the Fulda Gap. Indeed, General Galvin told the DPC that "it is clear that the old General Defense Plan is useless, and I have already rescinded it." NATO has now been asked for assistance to defend a member nation, Turkey, from a non-Warsaw Pact threat -- Iraq. Did plans for that contingency exist? There are obvious components to conventional war planning that should be revisited and need not await programming decisions.

Conventional war planners also should be changing the focus of their efforts, from the "big" war with the USSR, to the regional contingencies outlined in the JMNA. War planners have traditionally devoted most of their efforts to planning for the most demanding and least likely scenarios -- they should now devote the bulk of their efforts to the most likely and less demanding. This redirection will not come easily and may require different types of expertise. New contingency plans are needed soon so that program planners can have C-in-C inputs to force requirements, i.e. the forces desired for contingencies may not be the same as we procured for the "big" war.

Conventional war planning in the United States, unlike nuclear war planning, has generally been done by professional

military forces, without significant direct civilian involvement.¹⁰⁸ The Chairman of the JCS and the warfighting C-in-Cs should reconsider this situation and seek active interaction with the civilian community to make meaningful contributions and immediate changes to conventional war planning.

Specifically, strategists, political scientists, area studies specialists, economists, etc., probably can all provide the military immediate assistance and advice to adjust current planning scenarios and war and contingency plans. The military traditionally has performed this task in-house, but with the phenomenal changes in the international security environment and the preoccupation of the bureaucracy with Operations DESERT SHIELD and DESERT STORM, assistance from the "outside" may be required.

Left to their own devices, the bureaucracy may be tempted to ensure that current war plans support planned future programs and the existing organizational structure. Many civilian "outsiders" who could help are the numerous government employee faculty members at the war colleges, service academies, research laboratories, and similar institutions. These individuals are **not** from "outside" the government and many have requisite security clearances and a great deal of expertise.

The Chairman of the JCS already recognizes that a revolution has occurred in the international security environment which requires the immediate transfusion of expertise from the civilian

community to the military. We cannot afford the indulgence of waiting for new officers who recently studied these affairs, to cycle through the graduate education and War College processes; nor is the contracting and consulting community the government's best source for new ideas. This involvement by civilians in military affairs already occurs with nuclear program and war planning, and general forces program planning. Although proposals for such involvement from individuals within the Pentagon have been made before,¹⁰⁹ they have always been defeated.

NATO nations and the USSR should intermix their civilian academic communities with military planners. It is my experience that some other armed forces and perhaps even the intelligence communities are more comfortable with this model than is the American or Soviet military. This is not the time to draw distinctions between who should be involved in the debate over fundamental goals and objectives. In World War II, the U.S. and allied armed services drafted, or otherwise secured, the services of academics who had years of area experience that the military lacked. The social, political, and economic upheavals in the world have not been seen by the existing bureaucracy. Now is the time to repeat the involvement of outsiders.

An alternative model would be for the military to allow or invite the political leaders of their nations to dictate the revised goals and objectives. While there are some political leaders and many advisors available to discuss and decide nuclear strategy issues intelligently, most civilian leaders lack the

requisite background in conventional warfare to know what is possible and what is not. The military perspective is that the military **must** participate in the debate. The military should also involve civilian specialists in areas from which they traditionally have been excluded.

Impact of Operations DESERT SHIELD and DESERT STORM

A decade ago, when the U.S. initially prepared contingency plans for its Rapid Deployment Force, many observers feared that the deployment of significant military forces to the Middle East would move forces simultaneously committed to the defense of Europe. War planners feared an outbreak of hostilities in the Western TVD at the same time U.S. forces were arriving in Southwest Asia. That nightmare would tax America's capability to redeploy forces, or deploy forces remaining in North America, to Europe in time to influence the war. Despite some 541,000 U.S. personnel deployed in early 1991 to Southwest Asia, and the new force levels associated with CFE, there was a dearth of commentary from Europeans worried about this issue. If we could afford to place more combat troops in the Middle East than we had in Europe at the height of the Cold War, should we not assume that European NATO nations have accepted the diminution of those forces in Europe to deter a war today?

Operation DESERT SHIELD demonstrated that the U.S. could muster sufficient assets from the continental U.S. to meet a major contingency where there were no forces in being. Indeed,

General Powell drew this parallel as early as December, 1990, in both his speeches at RUSI and AFCEA.¹¹⁰ The initial deployment of forces in Operation DESERT SHIELD also seemed to demonstrate that such a force does not require basing overseas in Europe,¹¹¹ although additional forces were redeployed from Europe and other locations to the Middle East. The developed ports, airfields and petroleum available in Saudi Arabia and the geographic vulnerability of Iraq may not be convenient at future contingency locations, let alone such an exemplary villain or six unmolested months to build up forces -- cautioning us to exercise caution in using these Operations as models for the future. It will take careful analysis of Operations DESERT SHIELD and DESERT STORM to make a definitive statement on the issue -- but we should review the President's new national security strategy and the associated force structure now that these Operations have run their course.¹¹²

Once DESERT SHIELD and DESERT STORM after-action reports are written,¹¹³ analysts will try to answer the question: which systems appeared to make a difference in the political and military outcome? Successful use of the *PATRIOT* anti-missile system has already suggested to many the value of anti-ballistic missile (ABM) systems for the continental U.S.¹¹⁴ The corollary to this old lesson is that events of seemingly little military import, i.e. the launching of an Iraqi *SCUD* missile, can have an enormous political significance that demands military action.

Systems that did not make a major contribution to Operation DESERT SHIELD and DESERT STORM should be reevaluated for upgrading, cancellation, or replacement. Under the new national security strategy to reconstitute capabilities useful in a Europe-centered global war with the USSR, there will be no need to retain systems that do not have a dual-use in the Contingency Force.

There appear to be a number of obvious areas for research concerning lessons learned. Among the more obvious are whether a land campaign was truly required, or could our objectives have been accomplished with airpower alone?¹¹⁵ Since the destruction of Iraq's nuclear weaponry figured so high in the American public's support for Operation DESERT STORM, should we continue to consider nuclear, chemical, and biological weapons in the same warfare category, or, single out nuclear weapons as the most important? Are reserve air forces staffs needed if they will never be deployed?

What lessons do the Soviets claim they have learned from our experience? Both sides will obviously study the lessons learned, especially of the Air Campaign, and see if adjustments to military art are required. If the lessons are that significant, we can expect to not only see the U.S. consider revisions to the new national security strategy, but also the Soviet Union start their internal military doctrine debate anew. At least one major lesson should have been learned by the USSR - that the politico-military behavior of the U.S. cannot be predicted (responding to

the threat to Saudi Arabia with troops and public support for that response to include an offensive military campaign).¹¹⁶

There is a significantly reduced life expectancy for the equipment used in the desert for the recent Operations. Should the reserves be reduced as a result of the new national security strategy and "base" force, what do we do with the excess equipment?

Another significant impact of Operation DESERT STORM will be a significant alteration in the resources assumed to be available for defense programming. When the new national security strategy and "base" force were initially discussed by staffs in Washington, planners simply could not have known the level of military activities that would be undertaken shortly in the Middle East, the need to replenish stocks of war materials and equipment, and the costs involved with cleaning sand from our equipment, mobilizing reserves and providing for post-conflict veteran's entitlements -- to name a few. In essence, if the driving force for the new national security strategy was a realization that defense dollars will decrease, then DESERT SHIELD and DESERT STORM will add to the problem.

New Requirements for Intelligence

The changes suggested by the Bush Administration, if accepted by the U.S. Congress, will place an enormous burden on the intelligence community. Although one might argue that logically,

concomitant with such fundamental changes intelligence appropriations should increase, it is probable that they will decrease like defense spending.

President Bush's Aspen remarks are **programming** remarks and do not reflect changes in the **current** defense plans for the U.S. or U.S. forces which would fight today under NATO. The intelligence community should provide all of their traditional services until the new international security environment takes hold. This action should satisfy critics who will complain that we are overlooking the Soviet threat or that the events that we see in the USSR are simply a ruse or represent an attempt to secure a breathing space prior to a massive rearmament. In short, there is a current intelligence requirement that remains well focused on the existing Soviet threat.

In addition to providing intelligence products concerning the USSR to support current war planning, the intelligence community must also provide new products to support programming for the future Atlantic Force. For example, we need quick, rough answers to approximations of how much the USSR will devote in the future, or is devoting, to defense, given other needs. Naturally, the intelligence community has been attempting to provide this information all along but, with new information available, we can perhaps refine our assessments. Similarly, we need to identify the new international goals and objectives that serve as the requirements for future Soviet forces. Perhaps the time has come to game jointly, with the USSR, the deescalation of crises.¹¹⁷

If we do this, we will need to "game the game" before hand to not give away more than we expect to learn.

Most of the U.S. and NATO national intelligence communities are oriented toward understanding and countering the Soviet threat. Although it took many years, the West eventually grew sophisticated at understanding the Soviet perspective on doctrine, strategy, arms control, and the like. Our intelligence agencies and associated policy offices are substantially less competent at analyzing, predicting behavior, and conducting net assessments for the rest of the world. Obviously that situation is already remedying itself vis-a-vis Iraq, but there remain many areas of the world for which this conclusion is true. The Contingency Force will need strong supporting intelligence capabilities.

We need more in-depth intelligence capabilities for wide-ranging areas of the world. Deficiencies should be corrected, and quickly. Can the intelligence community prepared to provide players in seminar and war games who can represent the behavior of nations other than our traditional enemies?¹¹⁸ We recently felt comfortable enough with our knowledge of the USSR to create artificial intelligence-like models to represent Soviet behavior in expert systems that substituted machine actions for human behavior. Are we ready to do this for non-Soviet actors?

Flexibility is essential in shifting intelligence assets from one set of collection targets to rapidly emerging priority targets to support the contingency response element of the President's new national security strategy. Continued unimpeded access to space underlies support for the use of American military forces and has been identified by General Powell as one of the key supporting capabilities.

Intelligence activities include more than collection and analysis. There is the arcane area of counterintelligence; actions taken to thwart the activities of foreign intelligence services. As the Soviet military withdraws from Eastern Europe, their overt military intelligence collection efforts will suffer, forcing a shift to covert programs. For many reasons, the U.S. prefers to categorize its own covert action; i.e. intelligence support to foreign intelligence services, political actions, propaganda, and paramilitary actions, as an intelligence function rather than within the routine province of statecraft. Are the Western intelligence services ready for expanded counterintelligence and covert action in areas that have traditionally not been in the limelight?

As the U.S. withdraws its military forces from overseas and reduces its presence, there also will be a concomitant reduction in available military intelligence. The loss of these sources must be matched by new collection efforts. The Director of Naval Intelligence told the Congress in March, 1991, that: "It is time

to rediscover classic intelligence collection using legal travelers, emigres, elicitation, the attache system, industry, academia, area expertise, and 'open sources'."119

As the intelligence community re-enters areas, it will have to make some adjustments in how it does business. Formerly, when intelligence analysts differed, the debate could be settled by a re-assessment of the data. With political and economic intelligence, it is often the methodology rather than the data that settles disputes.¹²⁰

We have to build capabilities to match our stated need for new types of information. Economic and other forms of strategic intelligence, for example, may become relatively more important than extremely costly technical intelligence systems designed to provide tactical warning.¹²¹ The net impact of the President's new national security strategy is that the intelligence community may have to undergo a fundamental reexamination of its missions and priorities.

The U.S. possesses an excellent intelligence community which will need fine tuning and some redirection but is capable of providing the government with all the necessary assessments. To involve the intelligence community with additional tasking in economic analysis will challenge the community, and it should be done only with the full cooperation of existing organizations outside of government. The challenges of providing two years and other forms of warning should not be allowed to degenerate into a

debate over the track record of the intelligence community. The nation will need a discrete list of data required to provide such warning, and the political process will determine whether the resources can, or will, be made available.

Requirements for Decision-Making

NATO used to talk in terms of a few days warning (the time to detect an invasion) and another few days for decision. Mobilization and return of initial American troops and air forces from the continental U.S. to Europe would take around 10 days. Hence the canonical 14-day scenario arose, with enormous effort devoted to the assessment of theater-strategic operations and campaigns to be fought by forces that could be brought to bear. We became adept at calculating theater-wide force ratios for the first thirty or forty-five days of a war in Europe.

The question arises: how long would it take the Soviets to regain a position to cause the U.S. worry about a European crisis that could escalate to warfare and perhaps be over within a month and a half? Similarly, how long does the Soviet military feel that it would need to respond to an unanticipated rebuilding of Western military potential in Europe?

The March 1991 JMNA asserts that in the event of a superpower crisis, the prime programming assumption is that armed conflict will not occur for at least 24 months. This is not equivalent to assuming that we will have two year's strategic warning

and response time; warning might be provided and ignored, or warning signs might not be recognized. For programming purposes, however, U.S. planners should assume that the old theater strategic operation, or a surge operational-strategic level attack across the old inter-German border with the Pyrenees as goal, could not be mounted without the U.S. intelligence community obtaining and understanding indicators two years in advance.

For program planning, we also assume that during this two year period, the U.S. can reconstitute forces for defense of Europe while the Soviets are doing the same for their offensive capability. During that time, we assume that we can re-build forces and materials instead of maintaining them on active duty, in the Ready Reserves, or prepositioned in Europe. U.S. forces reconstituted for a major war in Europe need only be adequate to deter or defend against a Soviet attack - not launch a theater strategic offensive operation.

In short, the need for the old, massive, short-term (14-day) mobilization has diminished. The threat planning assumption that once drove NATO toward a two-week mobilization requirement has been replaced with a threat assumption, for programming purposes, that now gives the alliance two years to respond.

We need to expand our discussion of this two year period. For example, should we assume that we will have two years to reconstitute forces from the instant that strategic warning is provided and accepted by the intelligence community? If so,

which intelligence community - the U.S., NATO, all NATO nations, or some new international command? Could it be two years following the government's acceptance that "something is wrong" that should be redressed? Which government or governments, and must NATO, collectively, agree to react? Is it two years, assuming that we detect something significant and recognize it at the time?

Two year's warning does not mean that the USSR cannot launch an intercontinental nuclear strike against the continental U.S.,¹²² or an attack at the tactical, or perhaps even the operational level in Europe, in less time. There is probably some period of time associated with still realistic, but lesser, threats from the Soviet Union that is less than two years and more than two weeks. A major regional contingency involving the USSR in Europe should be, and is, in our program planning contingencies.

Indeed, the U.S. should include in its family of programming scenarios a major regional contingency involving the USSR in Europe, but limited to that theater. This will be new for navies. Program planning for a major single region contingency involving another global seapower will involve new thinking -- in war situations, navies could hardly be expected to keep the fight limited to a single theater. That program planning assumption will now also need to be made by the sea services.

Even accepting the ability of the intelligence community to provide a two year's strategic warning, there is controversy over what governments will do when faced with the initially, perhaps inconclusive, evidence provided. In October, General Galvin told a group of former NATO headquarters officers that two years warning time should be viewed in the context of the warning provided to, and the response made by, the United States from September 1939 to December 1941.¹²³ Post-Stalin Soviet military authors are never reluctant to remind readers that, despite overwhelming intelligence evidence of an impending invasion by Nazi Germany, and despite the recommendations for mobilization from his military staffs, the USSR was not prepared for the invasion that began in June 1941.

If Western history is a guidebook of non-reactions to rearmament by totalitarian nations and violations of arms control agreements, we should assume that democracies will: (1), delay decisions to rearm for many reasons - such as different interpretations of ambiguous intelligence data, the desire to deescalate a crisis, etc., (2), deny that a change in a former opponent's behavior has taken place or, if it has, is strategically insignificant or not precisely a violation of an agreement, and (3), even suppress the intelligence and findings of facts that do not support government policy.

A major lesson from previous arms control agreements is that they not only limit necessary preparations for deterrence, but also deter democracies from exposing totalitarian nations openly

violating such agreements. During the inter-war period, Germany, Italy and Japan built many warships exceeding limits set forth in arms control and other treaties - clear violations, actively hidden by at least one major democracy. For example, Britain had an Italian cruiser in its Gibraltar drydock, weighed it, found it in excess of the 10,000 ton treaty limit, and hid its findings.¹²⁴ In yet another case, the Admiralty continued to record the incorrect but treaty-compliant tonnage for the German battleship *BISMARCK*, even **after** it was sunk and the Royal Navy's Intelligence Division had examined the surviving ship's logs and crew.¹²⁵

Linking the behavior of a nation to a formal agreement, such as arms control, takes the reporting and interpretation of data away from the intelligence community and makes it the province of lawyers and politicians. For years, these bureaucrats debated whether a Soviet radar was in compliance with the ABM Treaty, despite no apparent changes in the data provided by the intelligence community. We sensed that there were differing interpretations of ambiguous data, that the violation was not strategically significant or not a precise violation, or that, even if true, the fact should not have been reported since it undermined the arms control process. In the end, the Soviets admitted that the radar was a violation. Had this radar not been linked to an arms control treaty, it is most likely that the assessment of its intended purpose would have been the routine province of professionals.

We must make a serious study of the decision-making patterns of nations faced with decisions similar to that which NATO governments will face when presented with ambiguous evidence which, some might argue, constitutes "proof" that the USSR, or the Russian Republic in a new USSR confederation, is violating the "understandings" or treaties that codify the new international security environment. NATO reactions will be inhibited by the arms control and confidence building measures we adopt over the next few years.

War planners, unlike program planners, are not **required** to use "best case" assumptions and are, therefore, authorized to formulate their plans on less optimistic suppositions. Hence, redirection of programming planners to the "best case" (two years warning) does not necessarily influence war planning for current forces. Nor does it necessarily deny government decision-makers access to alternative intelligence assessments based upon current capabilities rather than program assumption intentions.

The military should include in their family of actual war plans, plans based upon the track record of their governments acting courageously in response to provocation. For example, the military is not barred from drafting internal war plans which assume that authorization for the mobility of existing forces and the mobilization of reserves will **not** be granted until hostilities begin.

Decision-making studies to support program and current war planning should span the gamut of possible scenarios. At one end of the spectrum is the "worst case," of NATO reconstituting its forces within the two years predicted, but withholding the authority to mobilize forces out of garrison and responding to tactical warning until an attack by the USSR takes place, is verified, reported to the national and allied command authorities, and an authorization to respond is communicated to the field. In this scenario, we assume that the Soviet military machine came back strong and went back into Eastern Europe.¹²⁶

The related "best case" would be if all forces could report to their NATO-assigned positions, ready for a stillborn Soviet threat generated during two years of economic and political chaos. Perhaps in this situation, NATO might have an option for offensive tactical and even operational-level warfare against the USSR.

At the other end of the spectrum is the other "worst case," of a USSR that takes a full two years to rearm in such a manner that it obtains a significant advantage in its estimation of the correlation of forces and means. The scenario would assume that NATO nations failed to make bold decisions when faced with ambiguous evidence by the intelligence community. The associated "best case" would be a NATO that made the bold decisions and matched the Soviet regeneration with their own. Both sides would

then be fully reconstituted and on a wartime command and control footing and deployment.

Numerous other scenarios need investigation. Despite the lack of credibility accorded a "bolt-from-the-blue" ground attack by the USSR during the new international security environment, we should analyze this scenario to develop intelligence indicators to monitor as insurance against such a possibility.

It is even conceivable that Eastern European nations might ask Soviet, or Russian, troops back into their nations¹²⁷ to counteract what they perceive to be a threat from Germany. That scenario can build upon existing studies. Differences with today's scenarios might include reconstitution at national locations but failure to deploy forces from home garrisons and allow their transfer to NATO. Other possibilities include using portions of the programmed Pacific and Contingency Forces, in addition to the Atlantic Force, to respond to a European crisis.

War planners will also wrestle over how much time, and what type of decisions, are required during the initial combat actions in a crisis, before forces are either called up from the reserves or reconstituted in full. During this period, presumably both superpowers would act defensively. How long should we assume this period will last? Should we have one set of assumptions for programming and another for war planning? It is very likely that programmers will assume a longer defensive period than do operational war planners.

NATO exercises and simulated military decision-making usually has assumed that the alliance political structure would make decisions, which would then be executed by near-simultaneous actions taken by all member nations. In a restructured NATO alliance more political than military, in a new international security environment, alliance and national military commanders might have to devise future plans based upon a likely decision-making process which has member nations taking unilateral actions prior to those of the Alliance.

National decisions taking preeminence, in turn, would require Alliance planning for sequential rather than simultaneous military operations. Similarly, planning for allied, or combined forces, military operations may take second place to national planning. Future military planning by NATO may stress combined or joint operations but with forces under national command. These topics are all being discussed by the appropriate military commands.

Crisis decision-making should also be reviewed carefully, with the lessons of the post World War II era firmly in mind. Not all crises will require decisions at the same pace; some crises are slow to build, others are more fast-paced. Some crises occur with armed conflict imminent while others occur after the outbreak of hostilities. Measured responses need to include the full gamut -- from a minor show of force to a major

insertion of all types of troops. Scenarios should include a favorable outcome to a worst-case response. A building-block approach appears an appropriate analogy.

These and other scenarios should be augmented by the most sophisticated techniques available, to learn lessons of wars and campaigns yet to be fought. An artificial history could be written of alternative futures. Then the military can better advise the political leadership on the most suitable courses of action for impending decisions.

Technological Requirements¹²⁸

In the new politico-military environment, the American public predictably is unlikely to support a major overseas military presence, or combat in foreign lands. If future crisis scenarios assume host nation and coalition support, we must also plan to resolve these crises quickly, then withdraw. Hence, requirements will demand high technology weapons systems using robotics and artificial intelligence so that, if engaged in combat, American casualties are minimized and the crisis resolved rapidly. As Admiral Jeremiah reminded us in December, without the Soviet threat to spur continued investment in hardware, obsolescence in deployed systems will slow down - perhaps permitting us technological leaps instead of concentrating on marginal improvements. America's smaller armed forces should be provided with the most technologically advanced equipment.

Perhaps it is time to revisit President Reagan's dream of a defense-dominant world.¹²⁹ Deployment of the ABM Treaty-compliant antiballistic missile system should be a first step, instead of the Administration arguing for both strategic defenses and the available technology required for GPALS. Once there is a national consensus on the value of defenses, and a Treaty-compliant system is actually fielded, the U.S. can move toward more costly programs - but incrementally.

Technologies formerly considered less useful under the old political and international security environment may prove more interesting in the brave new world. For example, with adequate overseas bases, offshore basing technologies received only modest interest.¹³⁰ With the possibility that many American forces may return to North America, the U.S. should investigate carefully the realistic capabilities of offshore basing concepts.

With the demise of the old NATO-Warsaw Pact scenario and the prospect of numerous arms control agreements, the requirement for certain technologies may diminish. For example, if the Soviet Union accepts mutual **assured** destruction, demonstrated by abandoning strategic air and missile defenses, we may not need to invest in countermeasures to penetrate those defenses and attack strategic offensive forces.¹³¹ Similarly, if warhead numbers are driven low enough, we might abandon the search for increased missile accuracy.

With NATO armies on both sides of the old inter-German border, some systems designed for AIRLAND Battle should have lower priorities. Conversely, some technologies identified with NATO follow-on forces attack (FOFA) may still be useful in out-of-area contingency operations. An integrated joint task force, comprised of all the services, might benefit from technologies designed to conduct simultaneous operations over the full breadth and depth of the battlefield.¹³² The intelligence community should provide an assessment of world areas where such technologies might prove useful. An unbiased review of the technologies and systems associated with the AIRLAND Battle and FOFA will decide which are appropriate under the new national security strategy.

The U.S. government is concerned with maintaining its edge in defense technologies.¹³³ It has identified key technologies that should be protected, and routinely tracks our relative standing in these areas vis-a-vis the Soviet Union. We have recently expanded the comparisons of our technological standing to include allied nations, developing countries, and Eastern Europe.

Expanded technological comparisons call for new analyses from the intelligence community, and demand new national efforts to ensure that the appropriate technology is protected. Technologies available for what remains of military competition could improve so dramatically in the next few years that the fundamental nature of warfare may also change. Competition in military

hardware could shift from the nuclear arena to the non-nuclear and, as non-nuclear weapons become ever more capable, they may substitute for nuclear weapons at the tactical, operational, and even strategic levels. Nations will attempt to retain their technological leads in key areas, including sectors which formerly did not require protection. If protection of emerging technologies is too restrictive, it can stifle initiative and progress. A balance should be maintained between the need to protect technologies and that to ensure growth.

Economic technological competition with other nations will continue despite the new international security environment.¹³⁴ While there have been efforts to limit the spread of technologies to the Eastern-bloc, we will likely see wholesale changes in the management of militarily significant commercial products by the Coordinating Committee for Multilateral Export Controls (COCOM). Existing national legislation requires reconsideration and amendment, while new legislation is clearly needed to deal with the myriad of questions arising when former socialist states apply for access to technologies forbidden them for outdated ideological and military reasons. Governments must fundamentally revise policies to transfer key technologies to certain nations for economic advantage, not military balance of forces.

The nation would benefit from a Presidential Blue-Ribbon Panel synthesizing key technologies to explain and validate their importance in the new politico-military environment. The panel

might attempt to resolve the difficult question of balance between protection and growth and perhaps many we thought critical can be downgraded. Still, if we are to reconstitute a significant combat capability against a world-class adversary, we should to identify those technologies that we must still protect.

Research & Development

Considering the records of nations producing major weapons systems, it is obvious that a fundamental restructuring of the defense procurement processes is long overdue. Industry often sought, or took the leading role in exploring, technological opportunities and charged that research to overhead for major programs. With the major programs likely to be severely reduced, a new mechanism is required for basic research and initial development. To change the leading role in military R&D, governments may be compelled to reverse a major downward spiral in this category of spending.¹³⁵ Indeed, General Powell stated in his December speeches that defense R&D is one of the four underlying support capabilities of the new national security strategy.

Another possibility is to set up major government design bureaus, and internalize R&D responsibility itself -- perhaps specializing in areas devoid of normal civilian spin-offs. The Navy did this in the 1930s, when its Naval Aircraft Factory did prototyping, and both the Aircraft Factory and shipyards provided "yardsticks" by which to measure contractor performance. An alternative strategy is to continue those operations in the private sector and provide nourishing government subsidies. Per-

haps state and local governments can be persuaded to invest in R&D as well. The objective is to retain technology capabilities in numerous areas and the production capability in a few.

In any case, the output cannot be a family of senescent designs, curing on the shelf, but rather fully operational prototypes which normally never enter full scale development. In some cases, limited production runs may be necessary to ensure that production experience is maintained. In most cases, product improvement programs should be included in the prototype program. A prototypes development program should ensure that both the capability of assembly and a dynamic R&D program continue.

The Soviets also have worried about the same issues as they convert former military industries to civilian production. Rear Admiral Yu M. Khaliulin, Deputy Commander of the Black Sea Fleet, told Soviet President Mikhail S. Gorbachev at a November 13, 1990 meeting with military people's deputies, that a naval ship should be built every year or two at newly "converted" shipyards, just to retain the capability to do so.¹³⁶

Such a shift in USSR defense procurement will offer new challenges to our intelligence community. How do we classify evidence of new hardware when we cannot predict whether it will be followed by a procurement program? Keeping multiple products on the shelf is also a good competitive strategy that will force an enemy to match all possible threats, instead of just a few.

This, of course, works both ways and may prove justification for otherwise unwanted armaments. This shift to worrying about possible "breakout" is not altogether new, but will alter the emphasis of our collection efforts.

The new programming environment will reflect a new understanding of the partnership between government and industry. It will require major changes in the charters of many R&D and programming agencies to allow easier adaptation of commercial technologies into the defense sector and the continued flow of defense technologies into the civilian world. It is also likely to require changing defense regulations to allow profits on R&D and prototypes.

Investment Strategy and Conversion

The major implication of the two-year big war warning of a Europe-centered global war with the USSR is that American programming strategy will shift its focus to the more immediate threats presented in other areas of the world. Until now, the unstated relationship of the threat to programmed forces was, generally, that U.S. forces would meet the challenge of the most demanding threat, the USSR, and assume that they could also cope with lesser contingencies. That basic assumption was not entirely true and now will be essentially reversed: forces will be acquired to meet the challenges of the more likely, less demanding, threats assuming that they are also useful against the more unlikely but greater threat posed by a Soviet Union that decides to rearm.

This will be a new planning assumption for America, new for its allies, and somewhat impractical for the near term - or until we see substantial changes in Soviet maritime and nuclear force structure to match what we know for certain are reductions in the ground and air forces. The intelligence community is tasked to advise Western governments when their strategic nuclear and maritime postures can be relaxed. Can it meet the challenge?

There will be a fundamental restructuring of the near-term programming already contracted, and there may be extraordinarily high penalties incurred as industries move from the defense area to others. Programs like the B-2, A-12, the YF-22A, and other advanced technology aircraft, the SSN-21 *SEAWOLF* submarine, the follow-on to the *TRIDENT II* (D-5) missile, and other programs such as *TACIT RAINBOW*, tied to the AIRLAND Battle, appear related to an international security environment that no longer exists.

There will be last-ditch attempts to salvage certain programs, arguments that previously programmed forces are needed in the new "base" force, and bids to simply keep people employed and legislative districts satisfied. This will be a great challenge to the new Congress -- which should play its larger role instead of responding only to narrow constituent interests.

An obvious next step for the DoD is to provide incentives for the services to stop rejustifying old programs under the new

national security strategy and, instead, to actually perform a zero-based needs assessment. An obvious second step is to plan for the divestiture of unnecessary forces, equipment and industrial capability. There will be a great temptation to tie the reduction in capability to arms control - both for reasons of merit and to delay, or perhaps derail, reductions.

Implicit in the reconstitution portion of the new national security strategy is the retention of capability to produce equipment and supplies that have not been maintained. Not all firms must convert, nor should they be allowed to convert to the civilian non-defense sector. Government could regulate the decline but appears prepared to allow the market to determine survivors.¹³⁷

Some firms will manage to convert to the civilian sector. The assisted conversion of defense businesses to the civilian sector is a highly charged process. If a firm can produce tanks and another automobiles, why subsidize the uninitiated to do what there are competent firms already doing? Conversion assistance schemes abound, with proposals to use independent R&D funds for everything from non-military ventures to fully-funded programs.

For those firms which can convert, with or without assistance, there will be significant cultural adjustments. Government contractors often have the customer providing capital for specialized facilities and equipment. This is not normal procedure in the commercial market. In the defense industrial world, re-

quirements often advance the state of the art whereas in the commercial market, state of the art is limited by costs and competition. The two environments have drastically different financial structures and supporting infrastructures capable of preparing proposals.

Defense contractors are often organized along narrow compartmentalized, functional lines with little awareness of the overall program. Many firms do business in both worlds but there is little interconnection of personnel. Government and civilian contractors both agree that there is a significant problem converting personnel from one culture into successes in the other. It is also likely that management cannot make the transition.

After Vietnam War production ended, a downsizing of the defense industry was followed by massive displacements of professional and technical specialists. Conversion efforts then consisted largely of acquiring non-defense firms and attempting to expand into new markets. Most conversions failed, but primarily at the plant level. The cultural shock was either too great or the technologies offered by the defense firms were not needed.

The wholesale demobilization of military personnel into the civilian job market has taken place several times in the United States, with mixed results. Appropriate temporary programs are

needed to ensure that we manage the transition smoothly to support new national industrial and business goals.

Some industrial and military facilities inevitably will be idled, even made obsolete, by the new national security strategy. We can anticipate massive environmental cleanups at particularly dirty facilities, such as industrial sites used for the manufacture of weapons grade plutonium. The staggering costs of these efforts will make them economically unattractive for private peaceful use. Clearly, the government will have to assume these costs.¹³⁸

The conversion of defense plants, and other government capabilities, should be studied by a Blue-Ribbon Panel assisted by industrial and professional associations. This effort goes beyond similar panels that have suggested acquisition reform since, in this case, the government must ensure that defense-critical industries are identified and make certain the capability to produce is retained.

Reconstitution

Reconstitution has three essential sub-components: mobilization, military force reconstitution, and industrial reconstitution. Mobilization will provide the ability to respond to crises with an active duty and reserve force mix. Much more attention should be paid to ensuring that the reserves can respond, then return to their disrupted civilian occupations without loss of families, homes, and jobs. Existing legislation should be re-

viewed following the completion of Operations DESERT SHIELD and DESERT STORM.

Military force and industrial reconstitution, however, are areas in which the U.S. has not had active interests for many years. Reconstitution must provide, primarily in the European theater - but not only there, additional forces and military hardware for a major war, assuming that no major combat takes place for two years. Reconstitution time goals can be somewhat vague; since what is required is that we need only convince the Soviet Union, and European nations, that we can reconstitute a credible deterrence/defense faster than the USSR can reconstitute an offense. Reconstitution in Europe is possible only with a continued alliance structure such as NATO.

According to Admiral Jeremiah's March Congressional testimony, the new Army active reserve divisions will reach combat-ready status in 12-18 months. Marine Corps reserve divisions have not been included in this new cadre status. The individual ready reserve or conscription are low cost methods of managing the necessary manpower pool required for reconstitution. Additional goals for reconstitution will be provided as staffs become familiar with the concept - but some initial areas to investigate might include: sealift and intertheater airlift, strategic air and missile defenses, and short-range and naval nuclear weapons.

Most difficult will be maintaining a cadre of leaders. How will they obtain the necessary military leadership training at appropriate levels of command, when there are fewer forces to command? Schools are an obvious solution for the officer corps and senior non-commissioned officers, but will the services fund schools when faced with giving airmen flight time or sailors actual time at sea? Service schools may have to be consolidated for efficiency but there may be even more novel solutions.

If the officer corps is to be significantly reduced below current levels, eventually a level is reached at which it is no longer efficient to maintain military-run graduate schools, war colleges, and individual service flight training. A similar problem exists with special and limited duty, non-commissioned, and warrant officers, technical schools, and some government laboratories. Suggestions to consolidate DoD facilities are already under consideration but other government agencies might consolidate with defense.

The Department of Energy maintains laboratories, the Federal Aviation Agency has aviation facilities, inter alia. Expanding the student body may even take the form of training and educating military students from former socialist nations -- attempting to provide them with the technical details and structural framework for a military operating within a democracy.¹³⁹ The intelligence community could take advantage of this opportunity to learn more about the capabilities of the Soviet and other foreign military services. Increasing the number of foreign students attending

military schools may also improve our own language training capabilities.

One solution, other than consolidation, or expanding the student base, is an affiliation of defense schools and laboratories with select civilian institutions. The innovation would provide mixed civilian-military educational and research institutions that can be "reconstituted" to pure military or government facilities within two years. We may not need large numbers of officers and technical specialists trained during peace, but the model for the reconstitution of industry might well be applied to military training and education.

Another solution is to broaden and raise the level of research conducted at these institutions so that a substantive faculty remains onboard, and can shift to teaching duties when required. Keeping special and limited duty, non-commissioned, and warrant officers active in research at industry, or mixed government-industry design bureaus, can maintain the nucleus of a capability that may be required on short notice. Similar arrangements can be made with government graduate schools to increase their research and still return quickly to teaching. These suggested solutions beg for a Presidential Blue-Ribbon panel to study the options and make non-partisan recommendations.

Some of the military capability that America and its allies must retain should be contained in existing active duty and ready

reserve forces. On-hand equipment and supplies are needed for those ready forces, while some should be stockpiled and prepositioned. Maritime prepositioning offers great flexibility, recently demonstrated in the Middle East. However, not all the materials for all types of war need be readily available.

Implicit in the President's new national security strategy is the capability of tooling-up for wartime production within two years for a major war in Europe and less than that for lengthy contingency operations. General Powell stated in December that this ability to reconstitute was one of the critical underlying support capabilities of the new national security strategy. This capability will consist primarily of the knowledge, skills, and tools to respond within the time limits specified.¹⁴⁰ This concept is not new. We should review the 1930s history of planning assumptions and industry's ability to respond.¹⁴¹

Dr. Fred Ikle, former Undersecretary of Defense (Policy), was a proponent of preprogrammed crisis budgets and industrial responses to bridge the gap between peacetime and wartime.¹⁴² Industrial mobilization, instead of military mobilization or the deployment of troops, might form the basis of an adequate governmental response to ambiguous warning indicators. Ikle proposed a series of industrial alert conditions, similar to those used in the military, which would trigger specific actions. These would be less threatening because they would not immediately increase military capability.

A "graduated deterrence response," the term used by General Butler, could well involve a "graduated industrial response."¹⁴³ This is not the same type of response that the government ordered in 1937 under the Graduated Mobilization Response (GMR) concept -- that program being used to support national mobilization for crises and war with existing forces and strategies.¹⁴⁴ GMR remains a high priority program to support regional contingency response. There is no reason contracts cannot be let ahead of time for both a response to a major war and for contingencies.

Although we speak abstractly about devising plans and passing budgets ahead of the need to do so, economists must help government ascertain how much money would be required to reconstitute the defense industry. If that money is earmarked for other purposes, then financial planning should include tracking sufficient governmental short-term money which can be quickly diverted to defense -- if the GMR and reconstitution part of the new national security strategy is to have teeth.

Industry and government should decide on a basic strategy consonant with our ability to support a defense industrial base and invest in new technologies; and both must be comfortable with their new, nonconfrontational, roles. Government should ensure that industry is **capable** of retooling and delivering military products within two years or less.

The government record of abandoning major production programs is a travesty, and it is likely that - unless consciously addressed - we will permit the destruction of most capability. Notable examples include the Apollo and Saturn 5 programs, where facilities, equipment, hardware, stores, instrumentation, data files, test stands, etc. were destroyed and all technical teams were dispersed.

Many military contractors have been provided government-owned equipment, or have charged the development of facilities and equipment to military contracts. If the federal government wants these facilities retained, mothballed, or perhaps even improved, then it should provide incentives. Ownership of government equipment can be transferred to industry, or management of facilities can be turned over to government. If retained by industry, federal, state, and local tax laws must be revised to reduce or eliminate taxes on idle property and land.

Industry will work, meanwhile, on projects that have no direct defense application and simultaneously be asked to maintain the expertise necessary to produce military equipment within specified time limits. Keeping this expertise will require innovative measures -- perhaps even joint government and private repositories of knowledge at taxpayers expense. This, in turn, requires new and innovative approaches to intellectual property rights. The Department of Defense has allowed defense contractors to retain title rights for inventions while reserving the right of license-free use. If we mix federal and private sector

research, we may have to allow federal employees to benefit from royalties for work that is produced while on government time.

Making the two year response time a reality may require abandoning military design specifications (MILSPEC) in many areas. We may have to acknowledge that, to meet deadlines, available commercial products may be substituted. For areas that clearly require specifications, the old system should be retained.

The reconstitution of industrial capability appears the single most demanding element of the new national security strategy. The March 1991 JMNA states that "it would likely be 6 to 24 months before industrial base mobilization or surge production could begin to deliver critical items. . .by the end-FY 1997, it is estimated that it would take 2 to 4 years to restore production capability to 1990 levels for items whose lines have gone 'cold'." Fortunately, the Soviet Union is accorded the same capability. Clearly, the U.S. will have to monitor the ability to meet reconstitution targets, to test capabilities, to enhance the credibility of our response and to monitor the Soviet ability to do the same.

Reconstitution is fundamentally oriented toward the U.S. contribution to the defense of Europe in the face of a regenerated Soviet conventional threat. The U.S. need not reconstitute the 1990-era conventional force it had forward-deployed to Eu-

rope. New technologies, especially in air breathing systems, may offer the same or even increased combat potential with fewer ground troops.

Nuclear weapons, especially those based at sea, and maritime forces, offer the U.S. an ability to fully meet its military commitment under the North Atlantic Treaty without the extensive deployment of any ground or air forces on European soil. Simply put, if the U.S. Army was to totally withdraw a combat capability from the European continent, the U.S. could still provide routine extended deterrence with its nuclear forces at sea. A rapid response to any European crisis can be met with our forward-deployed carrier and Marines as well as new Air Force composite wings and rapidly deployable Army units.

Stockpiles

Technologies are not the only economic assets whose protection has been justified for military reasons. Our National Defense Stockpile is guaranteed to provide the U.S. with guaranteed access to critical strategic minerals for three years. We feared both disruption during a long war with the USSR, and curtailed access during the so-called "resources war," that never occurred. Interestingly, although we can claim that certain critical finished components should have been stockpiled, no such program ever existed.¹⁴⁵

Our National Defense Stockpile of strategic minerals had its genesis well prior to the Cold War, but can it be justified

economically? Japan, Sweden, and Switzerland, maintain similar reserves for economic reasons but, some years ago, a major study of the goals and objectives of our stockpile concluded that a less costly option to ensure access to materials included international development agencies and diplomatic efforts to ensure stability of major minerals producers, without significant budgetary costs.¹⁴⁶

Perhaps maintaining strategic reserves had more to do with domestic politics than true defense needs. In any case, the entire program should be reexamined and one of the options should be a carefully controlled sale of major portions of the stockpile to reduce the federal deficit.

The U.S. strategic petroleum reserves have been justified for economic rather than military reasons. On the other hand, the Rapid Deployment Force and numerous military programs have also been justified to ensure America's access to oil. Given competition for tax dollars, it seems a prudent planning assumption that the Congress may not fund both a refill of the petroleum reserve and General Powell's Atlantic Force to ensure we have access to oil.

It is equally appropriate to review the goals and objectives of our capabilities to provide sufficient quantities of oil -- but to fund only one. If, instead of the current unmet goal of 90 days, we had an oil reserve capable of supplying all economic

and military needs for one or two years, would we also have time to mobilize additional military reserves for, or reconstitute, a more capable Atlantic Force? If our oil reserves were this high, would we have intervened in Kuwait?

DoD Organization

If changes of this magnitude persist, it is obvious that the Department of Defense is about to undergo another soul-wrenching military services roles-and-missions reappraisal. From a reading of this year's Service Secretary's and Chiefs of Staff posture statements, it is obvious that the Army was more attuned to the new strategy and "base" force than were the other services. The absence of serious discussion of the new national security strategy by the other services in their posture statements is, frankly, remarkable - given the fact that the Aspen speech occurred almost six months earlier.

No matter how painful, the review of roles and missions will occur, implicitly with budget decisions or explicitly if we dare. Should new services be created - such as space or special operations forces - or do we instead field the recommended four new forces, made up of multiple services operating under joint military strategies?

Even more interesting is the question of should the bulk of the Marine Corps remain as a part of the Department of the Navy and keep its already-identified primary focus in the Pacific; or, dedicate forces to the continental U.S.-based land warfare-ori-

ented Contingency Force and play a greater role in the Army-heavy Atlantic Force, and concurrently move most of its assets to the Department of the Army? Some argue that the Navy/Marine Corps team is already an existing contingency response force - implying why do we need another?¹⁴⁷ The new strategy assumes that we need a unilateral modest tactical capability, which we already have with our Amphibious Strike Task Forces and MPF MEBs.

If the Marine Corps casts its lot with the Army, it might be able to successfully shift the bulk of its fighting potential without loss of its special identification. Other armies have amphibious troops and the U.S Army already has five amphibious assault ships and is building 35 assault landing craft.¹⁴⁸ A very small independent Naval or Marine Infantry might be retained under the Navy for at-sea duties such as: evacuation of non-combatants, piracy suppression, the at-sea recovery of maritime assets, drug interdiction, and guard duties.

On the other hand, staying with the Navy Department means that planned programs and personnel actions will not undergo the scrutiny associated with a shift to a new military department. On the whole, although one can make a case that the bulk of the Marine Corps could and even should shift to the Army, it is doubtful that neither the Administration nor the JCS will tackle this issue in the near term. Hence the Marine Corps should not oppose the new strategy and "base" force - they assume that under it, no one will question their "right" to exist.

Since the Air Campaign was so successful in Operation DESERT STORM, can we finally bury the recurring suggestion to revisit a separate Air Force? Recognizing the success of the Air Campaign in Operation DESERT STORM, can we explain why naval aviation appears to have been assigned so many support, instead of combat missions; and why the integration of naval aviation in the Air Campaign was handled in the manner that it was?

The Chairman of the JCS told his ADPA audience and Army Times in April that the new four military forces do not necessarily represent new C-in-Cs, but unanswered is the obvious question: whether we need the current number and geographical disposition?¹⁴⁹ Probably more than any other issue associated with the new national security strategy and "base" force, the review of the Unified Command Plan (UCP), dividing the world into C-in-C areas of responsibility, has more flag and general officer's attention than any other item.¹⁵⁰ Similar concerns in the NATO command structure also need to be addressed.

The new national security strategy and "base" force suggest that we revisit the existing wartime command and control structure for theater and functional C-in-Cs.¹⁵¹ Do we need warfighting C-in-Cs for the entire world? With asymmetrical reductions in force structure should come a loss of organizational influence.¹⁵² Such changes will obviously affect all joint military and intelligence organizations.

Even after we settle the UCP, there are other obvious important questions. For example, if we retain the existing plan, should SACEUR automatically be an American? A good case can be made by some Europeans that he should not. If we shift to the new structure for an Atlantic Force to replace the Commander-in-Chief, U.S. Forces, Atlantic (USCINCLANT), then should this commander automatically be a naval officer? Can he be a Marine? If a majority of strategic nuclear offensive forces are sea-based and if all strategic nuclear forces will belong to a single command, should its commander be a Navy officer? If the Pacific is destined to remain a maritime theater, it obviously needs maritime leadership.

In addition to these obvious organizational questions, we should address the type of individual involved in this major overhaul of the defense planning assumptions? The military should provide individuals who can both represent service interests and capabilities and appreciate the task at hand. This exercise cannot be just another interagency meeting, with compromise likely and one service holding the entire process hostage to their threats or objections.

This review will have serious repercussions in existing force structures and established plans for future forces. It is going to hurt, and will require officer participants willing to place their allegiance to country ahead of combat arms or service parochialism. These individuals exist in the peacetime services,

generally already networking outside of official channels.¹⁵³ Perhaps we could review our entire system for training and educating weapons systems acquisition managers, and more fully integrate basic political science type issues that were assumed constant in the past.

Problems with the quality of existing DoD strategic planning, or politico-military, personnel have been discussed frequently. They should have been solved by the Goldwater-Nichols Act and two administrations committed to implement this legislation. The fundamental review of **national** military strategy will severely test this assumption. The low level of inter-service infighting made public over Operations DESERT SHIELD and DESERT STORM indicates that there has been success in this area.

Past problems occurred at all levels: with political appointees, within the services, or both. Some political appointees have caused problems because of their relative inexperience, high turnover rates, and lengthy vacancies. The position of Under Secretary of Defense (Policy) during the Reagan Administration remained unfilled for an extended period following the resignation of Dr. Fred Ikle. Past friction between the experienced military and the relatively inexperienced political appointee could be exacerbated when those political appointees preside over the wholesale dismantling of a military machine that senior officers spent their entire careers building and defending.

The Transition Period

Before we attain the "new world order," we must manage a smooth transition period that gets us from here to there. There are numerous problems of consensus on what this new world will look like; but assuming such a consensus is possible, a plan needs to be devised for the journey. The new national security strategy and the "base" force are the Administration's first attempts to articulate the goals. They are not yet a plan for the transition.

With the Administrations's goals, American social scientists must quickly provide rough answers to approximations of how much can be devoted to defense, considering other pressing national needs. The initial answer has been provided by the Administration and the Congress - a 25 percent reduction is in order. This is not necessarily final, however. We may find that there are compelling reasons to defer such deep cuts so quickly (Soviet recent behavior is one such reason) or, that such success follows our initial reductions, that we should reduce even more.

The intelligence community and civilian academics outside government should rapidly provide assessments of all threats to U.S. interests in areas of the world traditionally relegated to official indifference. Initially, planning for non-Soviet contingencies will be assessed in terms of Operations DESERT SHIELD and DESERT STORM, but recent actions in Southwest Asia may prove to be the exception rather than models of the future.

When President Reagan outlined his vision of a world without nuclear ballistic missiles, or a defense-dominated security environment, it was necessary to look not only at those individual scenarios but also to think through the painful transition from the current state of affairs to the new one. One scenario that should have been considered was a USSR that attempted to militarily "prevent" deployment of strategic defenses because of Soviet fear of the new security environment. After looking at this scenario, analysis should have yielded conditions necessary to make the USSR secure during this transition.

We will need to evaluate carefully Soviet reaction to our rosy view of the "new world order." Although the Soviet Union appears to be an economic basket case, incapable of influencing external events, it **does** retain a massive military capability that cannot be ignored. In short, we should work closely with Soviet leaders to ensure that they are comfortable with the transition to a non-confrontational world that may be even less stable than the past.

Arms Control

Governments should have an integrated defense and arms control agenda. We should not attempt to delay planned military cuts in order to achieve an arms control agreement.¹⁵⁴ Parallel unilateral actions by both superpowers is an acceptable model for action. Arms control should only be engaged in if it can be demonstrated that the agreement will contribute to the defense of

the United States, the decreased likelihood of war, the reduced consequences of war if one were to nevertheless break out, or a concurrent reduction in costs.

The new national security strategy will present some interesting challenges to traditional arms control wisdom. For example, although both sides may wish to significantly reduce their nuclear arsenals, they may also desire to reconstitute additional capability. Indeed, a "quick fix" for an unseen or unchallenged Soviet regeneration or reconstitution is that of naval and air force nuclear weapons deployed to Europe. We may find military commanders even recommending retention of empty ICBM silos in order to reconstitute land-based nuclear capability within two years. These empty holes would offer verification difficulties and if this recommendation is made and accepted, it would require revisiting the SALT I Interim Agreement.

We are currently engaged, or will likely soon engage, in arms control negotiations or unilateral steps in lieu of arms control, in almost every warfare area. Yet virtually none of these agreements reduces the threat to the U.S. in theaters outside of Europe - the very area that we say is our primary focus for defense programming!

Military Operations Research and Analysis¹⁵⁵

The operations analysis and political science communities must cooperate as they never have before.¹⁵⁶ Military operations

analysis previously concentrated on investigating issues posed in a politico-military environment that was not subject to debate. Those assumptions are no longer valid. The old European-based war scenarios with two weeks warning and mobilization are simply not of very much interest anymore.

The military operations analysis community has to reorient itself to measurements of regeneration and reconstitution where the timelines are measured in months and years, not days or weeks. Strategic warning, decision making, non-NATO battlefields (ashore and at sea), manpower and personnel planning, resource allocation, test and evaluation, combat models, and gaming and simulation are all areas that will need fundamental readjustment in the new international security environment.¹⁵⁷

One technique for viewing alternative futures is that of path gaming. These are politico-military games that identify interesting alternative paths to a desired future, and examine them simultaneously with different groups of players. Gaming, naturally, is no substitute for solid analysis. Gaming, however, can provide new insight, and supplements more traditional methods of dealing with alternative futures. This technique was recently used by the Naval War College to explore the politico-military environment under President Bush's new national security strategy.¹⁵⁸

Governments will become more adept at using means, other than military forces, to influence the behavior of other nations

- hence these tools will also need to be studied as a part of our "graduated deterrence response." A recent Soviet forum "Civic Control Over Security," sponsored by the magazine Mezhdunarodnaya Zhizn and the School for the Strategy of Socio-Intellectual Enterprise in Rostov-on-Don, highlighted the vulnerability of the USSR to economic sanctions as the USSR becomes tied into the world economy and less self-sufficient.¹⁵⁹ In short, the military operations research community will need to integrate itself into analysis involving other tools of statecraft rather than considering itself a discipline that can exist unto itself.

For example, new research may evaluate how successful economic sanctions have been in the past¹⁶⁰ and as a supplement to Operation DESERT SHIELD. Apparently, sanctions were not as successful as some desired, since the U.S. and allied coalition nations launched Operation DESERT STORM. What is the appropriate mix of economic sanctions as a precursor to military operations and a follow-on, once the military campaign is completed? Economic tools are even more difficult to use than in the past, as multi-national corporations become less responsive to national governments. The intelligence community will have to provide new types of information to decision-makers to allow them to assess the capabilities of economic and other sanctions.

In short, military operations research and analysis will become more complicated and require the cooperation of specialists in other disciplines. This will mean that the government

should devise a strategy to direct and manage all the studies that will be done as we learn what is required of our transition to the "new world order."

Critical Success Factors

There appear to be four main problem areas in which solutions portend success for the President's dream. The first is that everything depends upon the responsible, good behavior of the Soviet Union. It may not be desirable to have your fundamental national security strategy so dependent upon the behavior of the once "evil empire" but, for any of this to work, the Soviets must return to their homeland, remain inwardly focused, and continue the serious reductions in military capability they have only started.

Specifically, what is meant by the continued "good" behavior of the Soviet Union will be debated. Clearly, additional draw-downs in naval and strategic nuclear systems must follow soon. Their inability to mount an offensive theater strategic offensive operation in Western Europe should be the key determinant. Internal behavior of the Soviet Union toward its own population, and marginal "cheating" or non-compliance with arms control measures, should not be grounds to derail the new national security strategy.

It appears that Soviet behavior can be modified to allow the transition but recent (December 1990 - January 1991) events suggest other possibilities. Without continued inability of the USSR to directly and seriously threaten Western Europe - with a theater strategic offensive military operation with existing

forces - the President's new national security strategy is simply not appropriate.

The second critical area demands that the intelligence community be able to surmount the new challenges. If funding for intelligence follows defense downward, then the reconstitution portion of the new national security strategy is bankrupt. The intelligence community should move into spheres they have traditionally avoided or under-emphasized, such as the Third World and economics. They will also have significantly increased burdens demanded by the monitoring and verification of compliance of arms control agreements. This is possible only if decision-makers recognize this crucial underpinning of the new national security strategy.

The third area that can undermine a successful transition to this new world will be the international behavior of allies and the U.S. Congress. Clearly, without Congress onboard, none of this is going to happen. Secretary Cheney's efforts to articulate the new national security strategy are designed to ensure that the Department of Defense is ahead of Congress and that the new policies are adopted.

Defense cuts have normally been performed in a "salami"-like fashion -- across the board. The new national security strategy strongly suggests asymmetrical cuts. Reductions in all government programs have been made in the past without reference to existing or suggested government policies. Without an articulat-

ed national security strategy by the Bush Administration, the Congress would probably: (1) cut across the board, or (2) decide on their own version of a new national security strategy, and make asymmetrical cuts in accordance with that strategy. Clearly the Bush Administration has no choice but to present to Congress an articulate strategy for the defense of the U.S., then participate in the normal budgetary and political debate that will result.

If our European and Asian allies attempt to keep our forward presence there, and their contributions to their own defense lower than they should be, they will likely attempt to exploit our separation of governmental powers. The debate over retaining a forward overseas presence for U.S. forces has generally assumed presumptions made by each side; unquestionably we need to maintain a permanent presence, or we can now return all the troops home. In the debate over retaining an overseas presence, all sides should explain the rationale, the benefits, and costs of their points of view.

The final and most demanding, critical factor in the success of the President's new national security strategy is the ability of private industry to deliver during the "reconstitution" process. What is visualized is not industrial mobilization from a "warm" start: rather, industry will be asked to deliver military equipment and supplies from a "cold" start - assuming that many

of our current defense industries shift to the non-defense sector.

The Bush Administration is attempting to both save our defense industrial base under **very** trying conditions, **and** simultaneously reduce defense spending - a dubious prospect, when it is not willing even to address the need for a national industrial policy? Reconstitution of U.S. industrial capabilities will be insufficient -- international reconstitution will be necessary for overseas suppliers of finished goods and raw materials.¹⁶¹

Major changes are required in the way we do business, to retain both our technological position in the world and the personnel necessary to meet newly defined defense needs. By withdrawing forces from overseas and promising to reconstitute within two years and return, the United States will have fundamentally changed its international politico-military posture. If after internal investigation, we cannot fulfill this promise, then the U.S. government should keep this conclusion under wraps, endure the open-source critical debate and criticism it will face, and keep this declaratory strategy operational.

The President's new national security strategy is a **program-**ming concept that supports the continued reliance on deterrence of war as the cornerstone of American security. There are those who doubted that the U.S. would ever use centrally-based nuclear weapons for the defense of Europe -- perhaps a President never would have decided to actually do that. Deterrence strategies

are influenced **greatly** by perceptions; under the new national security strategy, it will be important to maintain the perception of our ability to reconstitute. Just as in the past, evidence of programs, deployments, exercises, and literature must be provided to support deterrence.

Impact on the Navy and Marine Corps

From this look at the Presidents's new national security strategy and the Chairman's recommended "base" force, it appears that the U.S. Navy and Marine Corps will change the least. The fundamental maritime approach of our new national security strategy should logically result in asymmetric loss of military influence in favor of the sea services. This does not mean, however, that the Navy and Marine Corps can sit out the debate on roles and missions since they will not be effected by either - they will.¹⁶²

The Secretary of the Navy, the CNO, and the Commandant of the Marine Corps have obviously internalized the new national security strategy and the "base" force ideas and indicated their willingness to become partners in the new directions that the DoD are taking.¹⁶³ The Secretary has even suggested that: "Given continued changes in the Soviet Union, we eventually expect to see a diminished open ocean anti-submarine warfare threat. . .With changes in the world order and our own strategy, it is appropriate to re-examine the top-priority emphasis we have previously placed on countering the Soviet submarine threat."¹⁶⁴

The Secretary of the Navy and the CNO told the Congress in February that a 451-ship Navy could provide 2-3 aircraft carriers, 2-3 amphibious ready groups, 25-30 surface combatants, and 14 nuclear powered attack submarines (SSNs) on permanent forward deployment.¹⁶⁵ The CNO's 30 percent deployment rate means that

he used around 50 available submarines to maintain 14 subs routinely on deployment - a far cry from the recent goal of 100 SSNs or even the fallback position of 80-90.

The Secretary of Defense and the Chairman of the JCS have been using the most supportive Navy missions in their public pronouncements -- maritime superiority, power projection, and sea control. If Secretary Cheney and General Powell truly agree with these concepts, then the sea services should capitalize on that and not focus on second-order issues involving specific programs or the UCP. Unfortunately, it seems apparent that elements associated with the Navy have fired a series of broadsides at both the strategy and the "base" force - due to programming and UCP issues. On the other hand, there is every indication that the Marine Corps is taking a more statesmanlike approach and carefully trying to ascertain its place in the "new world order."

The May 1991 U.S. Naval Institute Proceedings/Naval Review 1991 contains a series of articles that make it clear that the authors understood most, but not all, of the new concepts and did not embrace them. Rear Admiral J.C. Wylie, U.S. Navy (Ret.) wrote a brief commentary entitled "Head's Up, Navy"¹⁶⁶ in which he essentially told the Navy to circle the wagons and defend itself against the attack it faced from the Air Force, the Army, and specifically the Chairman of the JCS.¹⁶⁷ The commentary is placed prominently as the first substantive article. Another article enumerates Navy weapons systems that are in serious jeopardy because of the new strategy and "base" force.¹⁶⁸

Another article by a retired flag officer critical of the "base" force concept appeared in the August 1991 Proceedings.¹⁶⁹ Rear Admiral William J. Holland's commentary "Strategic Command - Who Needs It and Why?" denies that a roles and missions feud is on-going but encourages the Navy to "lock up its daughters and put its wallet in an inside pocket." Again, this commentary is placed conspicuously as the first significant article of that issue.

Although elements of the retired flag officer community have taken exception to the new national security strategy and "base" force, the leadership of the active duty Navy has publicly embraced both. Additionally, a parallel, but **very** related, debate is ongoing over the degree of future jointness that the Navy is willing to accept. The current active-duty Navy leadership appears to have internalized the Goldwater-Nichols Act and agree that "jointness is here to stay."¹⁷⁰

One strategy to deal with the jointness issue is to not just "embrace it, but capture it, take it over and run with it."¹⁷¹ This recommendation attempts to use jointness as a vehicle to perform traditional maritime missions with traditional forces. Another strategy is to accept jointness, accede to nationally-mandated roles and missions, and modify the Navy's traditional self-image as the victor in the Pacific theater in World War II. This approach would necessitate refuting the retired flag officer

community's criticism of the new national security strategy and "base" force.¹⁷²

The rationalization for naval programs should be first: what are the national missions¹⁷³ that require: submarines, aircraft at sea, etc. This will lead to the number of submarine or aircraft capable units that the nation needs. Second, we should ask what types of submarines should be built (nuclear or diesel) or ships to carry airpower (conventional or vertical takeoff) recognizing the tradeoffs that are inherent between numbers and capability. Only then should we decide what type of submarine hulls or specific aircraft models are needed. Saving the industrial base is not a reason that the nation will build a significant number of very expensive formerly programmed naval units. The future budget climate for the military will simply not allow the Navy to retain programs it took for granted in the past, or that it would rather have.

Submarine Force¹⁷⁴

For the submarine community, the shift in top priority from antisubmarine warfare means that the goal of 80-90 or 100 SSNs, previously justified assuming a European-centered global war with the USSR, must find a new rationalization.¹⁷⁵ The U.S. Navy faces an extremely difficult task over retaining the full SSN-21 *SEAWOLF* program in a new international security environment focused on regional crises. Since it currently is the only submarine shipbuilding program (*OHIO* class ballistic missile submarines are considered national systems and exist quite apart

from attack submarines), attempts to cut the SSN-21 will be interpreted as an attempt to cut the submarine force. Indeed, the April 1991 issue of the Journal of the Naval Submarine League, The Submarine Review, contained a series of articles which sought to defend the submarine building program despite the new strategy.¹⁷⁶

The CNO told Congress that he has ordered studies to explore a new, lower cost option for a successor to the *SEAWOLF*. Since it would likely take 10-15 years to launch the first "SSN-X,"¹⁷⁷ we may see a maximum of some dozen or so SSN-21s built before a newer and **less-capable** class would be available. The U.S. Naval Institute Proceedings reported that the *SEAWOLF* program may stop with five or six boats.

Certainly there will be those who question whether we need even 14 deployed submarines at sea in our new crisis response-heavy strategy if we are going to have only the capability to quickly respond with one carrier task force and a MEB. Even if the submarine community today can justify 7 deployed submarines on each coast, the question is whether such deployments are too ambitious in the future given the paucity of surface and aviation units that will be routinely available for crisis response? In other words, is there a higher political payoff for the nation by forward-deploying 14 submarines but only 2-3 CVBGs or fewer submarines and 4-5 CVBGs? Which type deployments better serve to meet nationally-mandated missions?

If the submarine community can make the case that it needs 14 deployed units, then the second-order question is whether all of these need to be nuclear powered or some can be diesel-electric? Third-order questions should be what specific hull design is used. Saving the industrial base is not a reason that the nation will build a significant number of very expensive SSN-21s.

New justification for the submarine force might include substituting for carriers called away for crisis response and direct integrated response in crisis areas performing: surveillance, power projection, delivery of special forces, combat SAR, evacuation of nationals or hostages, blockade interdiction of surface traffic, etc.¹⁷⁸ Rationalization for SSNs also involves GPALS since submarines are high leverage platforms that can carry ICBM/submarine-launched ballistic missile (SLBM) interceptors which can catch missiles in the boost phase of flight. Perhaps we should consider ready reserve submarines. Using these and other more traditional missions, the submarine force can justify a total number of hulls that it needs before it proceeds to the specific types to be built.

Surface Forces

In addition to the obvious programs on which the Navy has traditionally placed less emphasis (sealift, mine warfare, diesel submarines, etc.), there are some other candidates for review. In this "new world order," is there a place for major fleet vs. fleet engagements, or will it be primarily fleet vs. shore? If

long range weapons make it less likely that major fleet forces will ever engage, there are probably some significant changes in order for our surface and other forces. If we renegotiate the ABM Treaty, naval surface ships, such as the *TICONDEROGA* class, may perform GPALS interceptor duty.

If a principal reason for deployments is to maintain overseas presence, under the new expanded definition of presence, perhaps we do not need such highly capable submarines or surface warships. It has been standard practice for the French Navy to maintain low-capability forces on permanent forward deployment in many areas of the world (e.g. the Indian Ocean) while the U.S. and Royal Navies generally cycle through high-capability forces on a scheduled basis.¹⁷⁹ The U.S. Navy used to do this before World War II. When faced with extremely tough budget decisions, the U.S. Navy may consider whether the French naval deployment system has any merit and adopt the less-capable forces as substitute for the fully-capable CVBG. Response to a crisis involving forward-deployed less-capable fleet assets may be with long-range CONUS-based Air Force units rather than naval aviation.

Naval Aviation

Naval aviation programs are also in serious trouble - being referred to in the U.S. Naval Institute Proceedings as being in "Chapter 11".¹⁸⁰ The goal of 15 deployable CVBGs, the A-12, and upgrades for existing aircraft, previously justified by assuming a European-centered global war with the USSR, have already gone

by the wayside. With transportation goals of only 1½ contingencies and a unilateral intervention capability requirement at only the tactical-level of warfare, it is likely that we will soon see studies stating that the need for big-deck aircraft carriers is perhaps as low as nine and the nation can afford some smaller less-capable aircraft carriers.

We should expect to see less support for traditional naval aviation programs and planned upgrades for existing forces as well. Naval aviation programs need to be justified in terms of future contingency operations in the Third World - not using the scenarios that have been of interest in the past few decades. Under the new program planning assumptions, justifying the need for air defense assets in terms of the threat of regiments of *BACKFIRES* is liable to create the impression that the Navy is unaware of the changes that have occurred in the world recently. The Navy still needs to defend itself against air threats but may not be allowed to procure active and ready reserve forces to defend itself against the "old" Soviet threat -- those forces will be "reconstituted," if necessary.

New justification for a modified carrier force might include, however, some roles against the revised, but still credible, Soviet threat; antisatellite warfare and defense against ballistic missiles. The Air Force has proven that aircraft can carry missiles that can reach into space -- why should some of these not be sea-based? Might not carrier aircraft carry GPALS

interceptors which can catch ballistic missiles in the boost phase of flight?

Maybe this is the time to again consider re-integrating the aircraft carrier into the Single Integrated Operations Plan (SIOP) and adding cruise missiles back into its arsenal? Perhaps we should borrow an idea from the USSR and integrate aircraft carriers into continental air defense? There are strong bureaucratic and strategy reasons that we did not do these in the recent past - but perhaps these conditions no longer apply. Deterrence and defense of the homeland will **always** remain missions for the U.S. Armed Forces. The ability of naval aviation to supplement missiles and land-based air and extend the air defense envelope should not be ignored.

Another idea that we should also consider is ready reserve aircraft carriers that can be reconstituted with reserve air wings within 1-2 years. Reserve forces may not be as appealing as active ones, but as the budget ax falls, consideration should be given to naval aviation capabilities that can respond to the threats posed by a regenerated USSR or other similar high end threat. Our new training carrier, *USS FORRESTAL*, should be dual-committed to the Atlantic and/or Contingency Forces, much as the *USS LEXINGTON* was once considered a back-up antisubmarine warfare (ASW) carrier. Budget cuts may even force the Navy to accept additional common or joint elements to flight training for its aviators.

Power projection in the new international security environment may not require advanced strike aircraft operating from large deck carriers but rather Army and USMC helicopters operating from Navy surface warfare ships and civilian cargo ships taken up from trade in conjunction with land-based Air Force fixed wing assets. Let us not forget the tremendous success enjoyed by the nation when Army aircraft flew off a Navy aircraft carrier and struck Tokyo in the early days of the World War II Pacific campaign. Since ASW is no longer going to be the Navy's primary mission, there is no reason that Navy ASW warfare helicopters cannot also have an anti-tank mission. This suggests that interservice, in the new era, is much more important than allied interoperability - a major Navy priority and strength in the past.

Amphibious Forces

The Marines have already seen the Navy's battleships mothballed and may see the reduction or total redesign or mothballing of major amphibious assault ships. Power projection for primarily contingency response in the new international security environment may not necessitate large numbers of advanced amphibious assault ships but rather only enough to handle the assault echelons of one MEB in each major theater. Additional Marine units would arrive by air and would be supported by MPF. The amphibious assault ships that we retain could also be dual-committed as sea control or ASW ships. Forward-deployed marines in Europe could operate in multinational task groups as a part of the new NATO Rapid Reaction Corps.

It unlikely that the modest-sized Army and Air Force assets dedicated to the Pacific Force should have a dual-commitment to the European theater in a revitalized "swing strategy" but what about Pacific Marines? These forces are supposed to be loaned to the Contingency Force, if needed, unless the Marines decide to dedicate assets to this new force. In this case, a substantial land war in Asia would necessitate "borrowing" forces from elsewhere, including Atlantic or Contingency Force Marines. In short, the dual-commitment of sea services to the new force commanders will have to be carefully negotiated.

Special Operations Forces

The sea services will have to decide upon their desired role in regard to special operations forces, presumably to be all assigned to the new joint Contingency Force, and in riverine warfare. The Marine Corps has avoided assignment of its forces to the U.S. Special Operations Command (USSOCOM) but it also claimed that its MEU-sized forces were normally special operations capable - earning the designation as MEU(SOC). This force is ideally suited for coastal raids but "brown water" is an area of the world's oceans of general disinterest to the Navy. This is obviously an area that needs to be ironed out.

Does the Navy want to take more interest in "brown water" operations, or will USSOCOM continue to purchase hardware for Navy special forces? Perhaps the Marine Corps can also rely on

USSOCOM to purchase amphibious ships and craft for them? Does the U.S. Coast Guard desire a piece of the "brown water" action? If so, what arrangements can be made with the Department of Transportation to involve the Coast Guard as a part of the Contingency Force?

Reserve Forces

As a cost-cutting measure which allows retention of the industrial base, perhaps some Navy hulls might remain uncompleted and, instead, put into deep storage where they could be "reconstituted" for a war with the USSR. It has been announced that some naval surface escort forces necessary for more robust power projection will be put into a new Innovative Naval Reserve Concept (INRC).¹⁸¹ The Navy plans to use eight FF-1052 KNOX class frigates as training ships with an additional thirty-two in a Reduced Operational Status (ROS) which would be available within 180 days. These forces are **not** reconstitution forces but rather reserve forces available in a lengthy contingency. We might also consider reconstitution of additional amphibious capability by placing amphibious assault ship hulls in deep storage.

It is likely that a robust shipyard capability, to repair battle-damaged fleet assets, may be part of the defense industrial base to be reconstituted and not fully maintained in peacetime. Reserve forces might be assigned to plan for and manage these capabilities.

Sealift

We are headed toward an overall force structure and operational tempo (OPTEMPO) that will permit the U.S military to respond to only 1 or perhaps $1\frac{1}{2}$ contingencies (not wars) with active-duty forces. Could a more innovative approach be taken with lift requirements? Government has already provided subsidies and other incentives to ship and aircraft owners and operators to maintain a military lift capability while operating their fleets in commercial trade. Perhaps future arrangements will include the government purchasing commercially inefficient but militarily useful shipping and allowing rotating commercial operations of this fleet by a contractor? Contractors could be subsidized to operate ships while performing routine maintenance and modifications to modernize the fleet.

Joint Commands

At his speech to the Comstock Club in September, Defense Secretary Cheney twice spoke of the need for naval **superiority**. In his testimony to Congress in February, the Chairman of the JCS (an Army General) discussed the need for maritime **superiority**.¹⁸² Secretary of the Navy Garrett's testimony to Congress in February alluded to the **possibility** that maritime superiority may not be affordable in the future: "Fiscal realities have also made affordability an important factor to be considered in sustaining maritime superiority."¹⁸³ These sentiments were echoed by the CNO as well: "There should be no doubt that, if the continued decline in Navy funding, force structure, modernization, and

personnel persists, we will reach a point where this nation will no longer be capable of maintaining the maritime superiority so vital to the support of our global interests."¹⁸⁴

Retaining maritime superiority does not mean that the United States will adopt an overall national maritime strategic outlook, positing heavy reliance on maritime forces to the exclusion of others, since the sea services can **contribute** to attaining political goals, but they cannot **achieve** them all. On the other hand, defense cuts under this new national security strategy **should** be asymmetrical and favor the sea services. Within the sea services, resources should also be allocated asymmetrically to favor those capabilities that are required under the new national security strategy.

Commands, however, will obviously **not** be allocated on a basis where the Navy has the majority. The Pacific theater has been declared a maritime one and the assumption is that it will retain a Navy C-in-C. If there is no serious maritime opposition to Navy forces at sea in the Pacific area of responsibility, is this assumption valid? Regarding the possibility of a new Strategic Force, although a majority of strategic nuclear warheads may be sea-based in the future, it is unlikely that the Air Force will be dethroned from command. At best, command of a future Strategic Force will rotate with the Navy.

Initial indications from the Vice Chairman of the JCS¹⁸⁵ indicate that the sea services do not have forces dedicated to

the a future Contingency Force, except for lift and special operating forces. The Marine Corps should rethink this and consider if they would like to participate. The Army and Air Force have already indicated they would dedicate serious assets to contingency response, making them the current leading candidates for command of a Contingency Force. This alone should cause the Marine Corps to seriously consider consolidating existing flag officer billets in order to gain one new four star general who would be a contender. If the Navy dedicated standing forces to a future Contingency Force, it would logically lead to a full rotational command policy.

Perhaps the most serious debate will occur over the proposed Atlantic Force. By dedicating most U.S. Army heavy assets to this force, one could conclude that the Army sees the Atlantic Force as a land-oriented command with seapower as a significant but supporting element. The Navy will probably focus on the word "Atlantic" and argue that it should obviously retain its maritime character and command. The Navy might even be willing to surrender cognizance over the Caribbean and South American waters in order to retain the Atlantic command. Major fleet elements of the U.S. Navy operated under the command of Army generals during World War II and have routinely done so in the Mediterranean since then.

If the Atlantic Force is in fact primarily focused on regional response power projection in Europe and the Middle

East/Southwest Asia, then perhaps the major peacetime commander should be oriented toward ground warfare with air and maritime commanders playing a subordinate role. After all, is there any serious threat to our maritime forces in this area of the world? If the Soviet (or some other) threat returns, it will be relatively easy to split the Atlantic Force into its land and sea-based components as a part of our reconstitution for a major global war originating in Europe.

On the other hand, in the new era of jointness, it can be argued that all the C-in-C positions could be filled by the best candidate from any service with no one single service having a lock on any specific job. Even if this would mean, in reality, rotation, the objectives of the Goldwater-Nichols Act may be more fully realized than if we retain current practices.

The uniformed services response to the new national security strategy reflects what can be found in a 1987 RAND Corporation assessment of their self-identification and cultural biases, from which I have extracted segments below.¹⁸⁶ The J.S. Army is described as having "its roots in the citizenry...service to the nation, and...utter devotion to the nation...taken greater pride in the basic skills of soldiering than in their equipment...the most secure of the three services...aimed at getting a single answer (often a number) rather than illuminating the alternatives in the face of recognized uncertainties...not shown any particular strong affinity for strategy...unique among the services in its acceptance of national strategies in peacetime which it is

both utterly committed to execute and unlikely to be able to successfully prosecute in wartime." "What is the Army? It is first and foremost, the nation's obedient and loyal military servant." The U.S. Army appears to be very comfortable with the new national security strategy and the "base" force.

According to the RAND study, the U.S. Air Force is "said to worship at the altar of technology...by far the most attached of the services to toys...always the most sensitive to defending or guarding its legitimacy as an independent institution...supremely confident about its relevance...the most comfortable of the three services with analysis...the most comfortable with strategy and things strategic...but not irrevocably committed to their execution in war." "Who is the Air Force? It is the keeper and wielder of the decisive instruments of war." Although the U.S. Air Force has always had strong analytic support, they are only beginning to study the implications of the new national security strategy - instead preferring to address strategy and force structure, to date, in terms of their pre-Aspen speech White Paper, "The Air Force and U.S. National Security: Global Reach - Global Power."¹⁸⁷

The Navy is characterized by the RAND study as being "far less toy oriented...more likely to associate themselves with the Navy as an institution...the hypochondriac of the services, constantly taking its own temperature or pulse, finding it inadequate, caught up in an anxiety largely of its own making...su-

premely confident of its legitimacy as an independent institution, but with the advent of long-range aviation, and again with nuclear weapons, its relevancy has come into question...has little tolerance of analysis for planning or evaluating the Navy...may advocate strategies in peacetime to their advantage, but they are not irrevocably committed to their execution in war." "Who is the Navy? It is the supra-national institution that has inherited the British Navy's throne to naval supremacy."

All of this discussion over roles and missions might reopen old debates between maritime and continental strategies,¹⁸⁸ but the Navy should recall that it forms but one component of triadic forces that ensure U.S. national security strategy.¹⁸⁹ Under the President's new national security strategy, we are clearly marching to a drumbeat that will probably mean the end of unilateral naval intervention overseas. Naval and Marine Corps forces are viewed under the new national security strategy and "base" force as being a part of a larger package - they are **not** going to be able to advertise themselves **only** as the Navy/Marine Corps Team. The new team is a leaner but more powerful U.S. Armed Forces. If the sea services are going to argue for the existing command structure and autonomous military capabilities, then they have the burden of proving that off-shore airpower, "can-opener" capability, and maritime C-in-Cs are still required in this "new world order."

Defense Business as Usual?¹⁹⁰

Major changes to the international environment have led planners to significantly shift the manner of addressing problems and issues. The first order questions, such as "what is America's role in the world, or the business and purpose of the Department of Defense," now demand answers prior to consideration of second order programming or efficiency issues, that have dominated the traditional defense debate.

America's new role in the world will widen strategic planner's horizons to considering issues more befitting planners of a major international superpower; such as the long-term competition between nations, the economic, political, legal, scientific-technical, and cultural aspects of competition, and uses of the military for other than a Europe-centered global war with the USSR. The U.S. cannot afford to indulge itself with "gold-plated" strategies capable of successfully dealing with all possible contingencies by itself.

The world may move to a more integrated political structure, or, at least parts of the world will move in this direction. The U.N. Charter still contains the framework for national armed forces acting on behalf of the Security Council. Perhaps this is the time to consider regional and global cooperation as alternative models to the nation-state. The nations of the world rejected this direction when they failed to adopt the U.N.-sponsored Law of the Sea Treaty and its "Common Heritage of

Mankind" approach to certain types of "common" ocean resources. True, that approach was flawed, given the political realities of its day, but perhaps this is the time to amend international organizations, and see if they can do better than before.

Changes in the international environment likely will be more significant in the next twenty years than in the last twenty. Planning for the long-term requires a 10-20 year planning horizon. We cannot afford to lock up our strategic options with political and military assumptions or force structures that were developed in a political world which no longer exists.

The fundamental shift in the way programming planners look at the world will lead to less emphasis on the USSR and Europe, a redirection toward other areas of the world, and managing day-to-day competition with other powers. All this will occur while the U.S. has significantly less capable tools in its kit. Rather than acting as a "Chairman of the Board" with our allies, America's appropriate future role may be that of "first among equals"¹⁹¹ if it does not withdraw to the North American continent in splendid isolationism. If we elect to stay engaged in the world, is it likely that we will engage in "winning" the peace as we once prepared to "win" war? If so, it implies the creation of a truly integrated and nonconfrontational governmental and commercial planning process.

Problems in American defense planning have, for some time, provoked calls for more and better planning. Evidence of plan-

ning problems is abundant in four major areas of Department of Defense planning: strategic goals and objectives that lacked clarity; a functional organizational design which impedes mission integration; overemphasis on budgets and programming needs to the detriment of overall policies and strategies; and ignoring other agencies, competitors and the external environment. We have the opportunity to, and should, improve the quality of our national strategic or long-range planning while we answer the call made by the President at Aspen.

A major planning problem was a lack of a coordinated effort to integrate the government's primary goals, policies and action sequences into a cohesive whole. Analysis and review of America's fundamental role in the world should force the DoD to solve this basic problem, at least temporarily. Sound strategic management, of which strategic planning is but one component, integrates an organization's principal goals, policies and action sequences into a cohesive whole. It marshals, allocates, and shapes an organization's resources into a unique and viable posture based on its relative internal competencies and shortcomings, anticipated changes in the environment, and contingent moves by intelligent opponents. Strategic management is concerned with the management of the whole enterprise, not just its functional components or sub-parts.

The U.S. government has not developed truly successful and coherent defense, industrial, scientific, engineering, oceans,

etc. policies since the end of the Second World War. Yet, we do have a successful agricultural policy and supporting programs. The federal government has also successfully managed complicated programs for space exploration, rural electrification, and transportation. Now is the time to again exercise leadership and provide guidance and support for success.

It is a challenge for the organizational leader to combine and direct the efforts and activities of other members of an organization toward the successful completion of a stated mission or purpose. It is this type of effort that we will see the Bush Administration attempt to perform while it undertakes a fundamental restructuring of America's role in the world, and missions for its military forces. It will be this effort, not the old roles and missions, that NATO political leadership will have to understand to deal effectively with the United States as it undergoes internal self-examination.

In contrast to most other types of planning, strategic management also analyzes an organization's external environment and internal climate, searches for new trends, discontinuities, surprises, and competitive advantages. Since its scope is broader than other types of planning, it typically embodies more qualitative shifts in direction than might be anticipated from the long-range planning process. Also guided by an idealized vision of the future, strategic management is much more action-oriented. The organization attempts to keep its options open, considering

a variety of alternatives to respond promptly to unforeseen contingencies as it seeks its ideal.

On the other hand, long-range planning, which has typified NATO planning in past decades, on the other hand, focuses more on specifying goals and objectives, translating them into current budgets and work programs. The objective of long-range planners (and short-range planners for that matter) is to work backward from goals to programs and budgets to document the sequence of decisions and actions required to achieve the desired future, embodied in the goals. Hence, long-range planning assumes that current trends will continue into the future and plans tend to be linear extrapolations of the present. Clearly, this is no longer feasible since our objectives appear to be changing.

To be effective, strategic management assumes certain necessary conditions. Among these are: agreement, or at least consensus, on goals and objectives; a process by which the organization can scan its environment, monitor trends, and assess its competitors; a management information system based on an integrated communication and control system; and a review and monitoring process to determine whether the current strategies are viable or should be revamped.

The top-down vision of the future, outlined by the President in Aspen, will usher in new governmental politico-military goals and objectives. The major players will be both domestic and international, and it is likely that a consensus will be reached.

It is uncertain which group or groups will dominate the debate but the American public's willingness to sustain heavy defense burdens concurrently with large domestic programs (including the Savings & Loan bailout) should not be assumed gratuitously in the absence of a clear and present danger.

Effective strategic management is not possible without responsive and timely feedback. The debate over the President's new national security strategy should include an analysis of the U.S. political goals sought by the forward deployment of U.S. forces, and the political environment that compelled the formulation of America's alliance structure. If those goals have been attained, if the international environment has drastically changed, then it should be obvious that the fundamental strategy and resulting force structure are subject to wholesale renegotiation. That this is being done in a thoughtful and comprehensive manner, with the full participation of domestic interests and allies, should be comforting.

New legislation will be required as a result of the changes in the international system - so this exercise is not confined to the Executive Branch of government. The two government branches can cooperate or they can assume an adversarial relationship. Congress will cut forces and programs - with or without a carefully considered plan. The Executive Branch must present every possible option for cuts to the legislature - even those that wrench the very souls of the leaders of a particular combat arm

or military service. The Administration appears prepared to meet this challenge.

The assumption of two-year's strategic warning will be debated endlessly and perhaps never fully resolved. What the Administration has accomplished with this assumption is to make it explicit that to absorb a 25 percent cut, we must make an assumption of this magnitude. If nothing else, it will force the Congress and the American public to recognize exactly what we are buying into with the new national security strategy and "base" force. One hopes that the dramatic changes are recognized in the USSR as well.

Should the services refuse to present realistic plans to the DoD, or play end-around games with Congress, the cuts will be made anyway. The services could find themselves playing catch-up, and redrafting strategies with whatever forces the resulting legislation permits. The looming debate should be about goals and objectives, realizing that these do **not** have to be what they were in the past. If we are realistic about these goals and objectives, there is every likelihood that we can reach a consensus on force requirements. If we engage in acrimonious debate over force structure, we may stumble into a strategy that will not serve our national interests in the 21st Century.

Notes

(1) The views expressed by the author are his alone and do not necessarily represent those of the U.S. government, Department of Defense, or the U.S. Navy. An edited, earlier, and smaller, version of this report will be published by the journal Security Studies, Vol. 1, No. 2, Winter 1991/1992.

(2) "Remarks by the President to the Aspen Institute Symposium" (as delivered), Office of the Press Secretary (Aspen, Colorado), The White House, August 2, 1990, 6 pp.

(3) Karl von Clausewitz, On War, trans. by O.J. Matthijs Jolles, New York: The Modern Library, 1943, Book VIII, Chapter VI, p. 596.

(4) Dick Cheney, Secretary of Defense, Annual Report to the President and the Congress, January 1991, p. 3.

(5) Michael Gordon, "Pentagon Drafts New Battle Plan," New York Times, August 2, 1990, p. 1. According to this year's DoD annual report to Congress, the Defense Planning and Resources Board (DPRB) apparently played a role in reviewing the new strategy.

(6) John D. Morrocco, "New Pentagon Strategy Shifts Focus From Europe to Regional Conflicts," Aviation Week & Space Technology, Vol. 133, No. 7, August 13, 1990, pp. 25-27. This article has depth similar to that found in Michael Gordon's article in the New York Times. The President's Aspen speech and the "base" force were also reported, but without a great deal of depth, in the Washington Roundout section of Aviation Week & Space Technology, Vol. 133, No. 6, August 6, 1990, p. 15. The strategy was also covered in Europe in "The Defence Budget: Choice Cuts," The Economist, Vol. 316, No. 7667, August 11-17, 1990, pp. 28-30. Interestingly, Aviation Week & Space Technology reported on significant forthcoming cuts in forces prior to the President's Aspen speech. See: John D. Morrocco, "Cheney's 25% Force Reduction Plan Could Spur Further Spending Cuts," Aviation Week & Space Technology, Vol. 132, No. 26, June 25, 1990, pp. 24-25.

(7) "Remarks by General Colin L. Powell, Chairman of the Joint Chiefs of Staff, at the National Convention of the Veterans of Foreign Wars, Baltimore, Maryland, August 23, 1990," as delivered, 13 pp.

(8) "Remarks by General Colin L. Powell, Chairman of the Joint Chiefs of Staff, at the 72nd Annual National Convention of the American Legion, Indianapolis, Indiana, August 30, 1990," as delivered, 21 pp.

(9) "Remarks as Delivered by Secretary of Defense Dick Cheney, International Institute for Strategic Studies, The Homestead, Hot Springs, Virginia, Thursday, September 6, 1990," News Release, Office of Assistant Secretary of Defense (Public Affairs), 7 pp., and notes made by author, who was in the audience, of additional

remarks.

(10) "Review of Military Strategy," TASS Report contained in Moscow Pravda in Russian, September 8, 1990, 2nd Ed., p. 4 (FBIS-SOV-90-176, September 11, 1990, p. 16).

(11) Office of Assistant Secretary of Defense (Public Affairs), "Remarks as Delivered by Secretary of Defense Dick Cheney, to the Comstock Club/Air Force Association, Sacramento, California, Thursday, September 13, 1990," No. 444-90, 5 pp.

(12) Office of Assistant Secretary of Defense (Public Affairs), News Release, "Secretary of Defense Dick Cheney, San Francisco Bay Area Council, San Francisco, California, September 14, 1990," 10 pp.

(13) "Remarks by Defense Secretary Dick Cheney to the Pittsburgh World Affairs Council," October 30, 1990, Reuter Transcript Report, 5 pp.

(14) "Speech to the Center for Defense Journalism, The National Press Club, September 27, 1990, by Lieutenant General George L. Butler," 17 pp. General Butler was recently selected for his fourth star and as the Commander-in-Chief of the Strategic Air Command.

(15) George L. Butler, "Adjusting to Post-Cold War Strategic Realities," Parameters, Vol. XXI, No. 1, Spring 1991, pp. 2-9.

(16) N. Belan interview in Tulan on October 18, 1990 as reported in "I Look Ahead With Optimism," Moscow Sovetskaya Rossiya in Russian, October 19, 1990, 2nd Ed., p. 5 (FBIS-SOV-90-208, October 26, 1990, p. 4); A. Sychev, "'We Too Are Changing,' U.S. Defense Secretary Richard Cheney at the USSR Supreme Soviet Committees," Moscow Izvestiya in Russian, October 19, 1990, Morning Edition, p. 4 (FBIS-SOV-90-203, October 19, 1990, p. 7); M. Zakharchuk . A. Pershin, "At the USSR Foreign Ministry Press Center - Yazov and Cheney: Discussion on Peace," Moscow Izvestiya in Russian, October 20, 1990, Union Edition, p. 4 (FBIS-SOV-90-205, October 23, 1990, p. 15); Major M. Zheglov, "Visit Over," Moscow Krasnaya Zvezda in Russian, October 21, 1990, 1st Ed., p. 2 and Moscow World Service in English, 1210 GMT, October 22, 1990 (FBIS-SOV-90-205, October 23, 1990, pp. 16-17); TASS Report, "Secretary Happy," Moscow Pravda in Russian, October 26, 1990, 2nd Ed., p. 4 (FBIS-SOV-90-211, October 31, 1990, p. 5); and TASS Report "Pentagon's 'Five-Year Plan'," Moscow Pravda in Russian, November 1, 1990, 2nd Ed., p. 5 (FBIS-SOV-90-212, November 1, 1990, p. 5).

(17) General Colin L. Powell, U.S. Army, Chairman, Joint Chiefs of Staff, "Enduring Defense Needs," The Retired Officer, Vol. XLVI, No. 10, October 1990, pp. 22-30.

(18) General Colin L. Powell, USA, Chairman, Joint Chiefs of Staff, "All Elements of Total Force Give Military Prowess," The Officer, Vol. 67, No. 2, February 1991, pp. 12-16.

(19) "Remarks by General Colin L. Powell, Chairman of the Joint Chiefs of Staff, at the Royal United Services Institute for Defence Studies, Whitehall, London, 5 December 1990 - The Eisenhower Centenary Lecture: Military Realities and Future Security Prospects," as delivered, 19 pp.

(20) "Remarks by General Colin L. Powell, Chairman of the Joint Chiefs of Staff, to the Washington Chapter of the Armed Forces Communications and Electronics Association (AFCEA) -- The Shoreham Hotel, 14 December 1990," as delivered, 29 pp. General Powell's remarks were reported by AFCEA in their official publication as well. See: Robert H. Williams, "New Defense Doctrine Explained By JCS Chairman," Signal, Vol. 45, No. 6, February 1991, p. 102 and "Combined Force Leadership Wins Powell Sarnoff Award," Signal, Vol. 45, No. 9, May 1991, p. 133.

(21) General Colin L. Powell, "The Eisenhower Centenary Lecture: Military Realities and Future Security Prospects," The RUSI Journal, Vol. 136, No. 1, Spring 1991, pp. 17-21.

(22) "Remarks as Delivered by Admiral David E. Jeremiah, USN, Vice Chairman, Joint Chiefs of Staff, at the President's National Security Telecommunications Committee (NSTAC) at the Loy Henderson Conference Room, Department of State, 13 December 1990," 10 pp.

(23) General Donald J. Kutyna, USAF address to the "12th Western Conference and Exposition - Space Day - San Diego, CA - 24 January 1991," OASD/PA #91-0294, 23 Jan 91, p. 2. The "Base Force" appears on slides 1-2.

(24) Base Force Idea is 'Tailored to New and Enduring Strategic Realities'," Aerospace Daily, October 9, 1990, p. 39; Jessica Eve Budro, "Military Feels Shut out of Planning: Service Resentment Brewing Over Powell's Base Force Plan, Say DOD Sources," Inside the Pentagon, October 11, 1990, p. 1; Stephen Aubin, "Analysis: Perestroika for the Pentagon," Defense Media Review, October 31, 1990, p. 3; Rick Atkinson, "Stand Up, Sit Down, Fight, Fight, Fight," The Washington Post National Weekly Edition, December 21, 1990 - January 6, 1991, pp. 31-32; Charles W. Corddry, "Even as Navy Builds up its Middle East Forces, a Drastic Build Down is Being Eyed by Planners," Sea Power, No. 34, No. 1, January 1991, pp. 2-13.

(25) "Statement of The Secretary of Defense Dick Cheney, Before the House Armed Services Committee, in Connection with the FY 1992-93 Budget for the Department of Defense, February 7, 1991," 13 pp. & 15 slides; and "Statement of General Colin L. Powell, Chairman of the Joint Chiefs of Staff, Before the Committee on Armed Services, U.S. House of Representatives, 7 February 1991," 18 pp.

(26) "Statement of the Secretary of Defense Dick Cheney, Before the House Appropriations Defense Subcommittee, in Connection with the FY 1992-93 Budget for the Department of Defense, February 19, 1991," 13 pp. & 15 slides.

(27) "Stenographic Transcript of HEARINGS Before the Committee on Armed Services, United States Senate, Hearing on the Defense Authorization Request for Fiscal Years 1992 and 1993 and the FY 1992-1997 Future Year Defense Plan, February 21, 1991," 153 pp.; and "Statement of the Secretary of Defense Dick Cheney, Before the Senate Armed Services Committee in Connection with the FY 1992-93 Budget for the Department of Defense, February 21, 1991," 22 pp. & 15 slides; and "Statement of General Colin L. Powell, Chairman of the Joint Chiefs of Staff, Before the Committee on Armed Services, United States Senate, 21 February 1991," 19 pp.

(28) Dick Cheney, Secretary of Defense, Annual Report to the President and the Congress, January 1991, 134 pp.

(29) "Statement of I. Lewis Libby, Principal Deputy Undersecretary of Defense (Strategy and Resources) in Connection with the New Defense Strategy, HASC Defense Policy Panel, March 12, 1991," 18 pp.

(30) "Statement of Admiral David E. Jeremiah, Vice Chairman of the Joint Chiefs of Staff, Before the Committee on Armed Services, United States House of Representatives, 12 March 1991," 15 pp.

(31) "Statement of Under Secretary of Defense for Policy, Paul Wolfowitz, House Armed Services Committee, Subcommittee on Procurement and Military Nuclear Systems and Research and Development, March 20, 1991, 9 pp.

(32) Office of Assistant Secretary of Defense (Public Affairs) News Release No. 204-91, "Remarks by Secretary of Defense Dick Cheney, at Walsh Lecture, Georgetown University, Washington, D.C., Thursday, March 21, 1991 - 8:00 P.M. (EST)," 10 pp. The Secretary departed from his prepared remarks at this lecture and instead talked about Operation DESERT STORM. His prepared remarks were submitted for the record and made available to the public.

(33) Joint Chiefs of Staff, 1991 Joint Military Net Assessment, March 1991.

(34) "Remarks by General Colin L. Powell, Chairman of the Joint Chiefs of Staff, to the American Defense Preparedness Association Board of Directors, Reception and Dinner, The Omni Shoreham Hotel, Washington, D.C., 3 April 1991" - As Delivered, 20 pp. Although ADPA reported on this speech in their official journal, they virtually ignored the aspects dealing with the new strategy and instead concentrated on Operations DESERT STORM and DESERT SHIELD. See: "General Powell Receives Top ADPA Award," National Defense, Vol. LXXV, No. 468, May/June 1991, pp. 25-27.

(35) Jim Wolffe, Army Times, April 15, 1991, p. 4.

(36) "Chairman, JCS Testimony to Defense Base Closure Commission," April 26, 1991, 25 pp.

(37) Sergey Mikhaylovich Rogov, "What Kind of Military Reform?" Moscow Kommunist in Russian, No. 6, April 1991, pp. 88-99 (FBIS-SOV-91-137-A, July 17, 1991, pp. 5-13). This article directly criticizes the USSR Defense Ministry "Concept of Military Reform" for failing to take into account doctrinal, strategy, and force structure changes going on in the U.S. and other foreign nations.

(38) "Text of Remarks by the President at United States Air Force Academy Commencement Address," Colorado Springs, CO: White House Office of the Press Secretary, May 29, 1991, 4 pp.

(39) "The New Defense Strategy and Its Implications for Total Force Policy," Statement of the Principal Deputy Under Secretary of Defense (Strategy and Resources), I. Lewis Libby, Hearings Before the Subcommittee on Manpower and Personnel, Senate Armed Services Committee, on The Total Force Policy and the Base Force, June 5, 1991, Advanced Copy, 20 pp.

(40) "Written Statement of Brigadier General William Fedorochko, Jr., Deputy Director for Force Structure and Resource, Joint Staff, Before the Senate Armed Services Committee, Manpower and Personnel Subcommittee, 5 June 1991," 14 pp.

(41) "Statement by General Colin L. Powell, Chairman, Joint Chiefs of Staff, On the Treaty on Conventional Armed Forces in Europe (CFE), Before Senate Foreign Relations Committee, 16 July 1991," 7 pp.

(42) Department of Defense, Conduct of the Persian Gulf Conflict: An Interim Report to Congress, July 1991, pp. I-3, 2-1, & 21-1.

(43) For an interesting commentary on the absence of the JCS "during the development of a new national military strategy and supporting force structure," see Colonel Gordon D. Batcheller, USMC (Ret.), "Ideas and Issues: Defense Organization - The Eclipse of the Joint Chiefs," Marine Corps Gazette, Vol. 75, No. 7, July 1991, pp. 32-34 (especially p. 34).

(44) For an interesting commentary on a "miniature think tank" within the "Joint Chiefs," see Rudy Abramson & John Broder, "Four-Star Power," Los Angeles Times Magazine, April 7, 1991, p. 20. This report generally focuses on General Powell but also contains references (p. 60) to the new "base" force and Powell's apparent attempt to get the issue "out on the table quickly, even before Cheney was ready to discuss it publicly." The reference to the think tank within the "Joint Chiefs" is probably a general reference to the Joint Staff.

(45) "Statement of the Assistant Secretary of Defense for Force Management and Personnel, Honorable Christopher Jehn, Hearing Before the Defense Subcommittee, Senate Appropriations Committee, "Total Force Concepts," April 9, 1991, 7 pp. This basic testimony was repeated in the House.

(46) "Defense Deputy Secretary Donald Atwood Address to the

American Institute of Aeronautics and Astronautics," May 1, 1991, at the Hyatt Regency Crystal City, Arlington, Virginia, Reuter Transcript Report, 8 pp.

(47) Casey Anderson, "New Conventional, Nuclear Commands Seen," Air Force Times, February 11, 1991, p. 3, reporting on GEN McPeak's remarks at an Air Force Association Conference in Lake Buena Vista, Florida, on January 31, 1991.

(48) The Honorable Michael P.W. Stone and General Carl E. Vuono, Trained and Ready: The United States Army Posture Statement FY 92/93, February 15, 1991, 106 pp.

(49) The Honorable H. Lawrence Garrett III, Secretary of the Navy, Admiral Frank B. Kelso II, Chief of Naval Operations, and General A.M. Gray, Commandant of the Marine Corps, "The Way Ahead," U.S. Naval Institute Proceedings, Vol. 117, No. 4, April 1991, pp. 36-47.

(50) Frank B. Kelso II, "Charting a Course for the Future," Sea Power, Vol. 34, No. 4, April 1991, pp. 13-20.

(51) Defense spending will actually go up due to Operations DESERT SHIELD and DESERT STORM, but this should be viewed as an aberration much as the war in Vietnam was viewed.

(52) This was not unnoticed in the Soviet Union, see: Vladislav Kozyakov, Moscow World Service in English, 2300 GMT, February 11, 1991 (FBIS-SOV-91-029, February 12, 1991, p. 5).

(53) Indeed, this subject is mentioned in their new draft military doctrine. See: "On the Military Doctrine of the USSR (Draft)," Moscow Voyennaya Mysl in Russian, Special Issue, signed to press November 30, 1990 (JPRS-UMT-91-001-L, January 3, 1991, p. 16).

(54) General John R. Galvin, U.S. Army, NATO's Supreme Allied Commander Europe, apparently agrees. In a February 1991 address, he remarked after discussing Operation DESERT STORM that "precision weapons have changed the whole face of battle. See: "Transcript, SACEUR's Remarks, International Institute for Strategic Studies, Commonwealth House, London, United Kingdom, 21 February 1991," IISS.DR, p. 7.

(55) These four supporting capabilities were not nearly as well articulated as the base force during the formative stage. The Annual Report to the President and the Congress serves this purpose. We can expect additional follow-on reports of how these capabilities fit into the "base force." For example, see General Donald J. Kutyna, USAF address to the "12th Western Conference and Exposition - Space Day - San Diego, CA - 24 January 1991," OASD/PA #91-0294, 23 Jan 91, 4 pp. and 58 annotated slides.

(56) General Donald J. Kutyna, USAF address to the "12th Western Conference and Exposition - Space Day - San Diego, CA - 24 January 1991," OASD/PA #91-0294, 23 Jan 91, annotated slides 54-57.

(57) "Text of the State of the Union Address," Washington Post, January 30, 1991, p. A14.

(58) When the Soviets first commented on a revised U.S. defense against limited nuclear strikes, they assumed that it would be ground-based. See: TASS report by Vladimir Chernyshev in English at 1805 GMT, October 17, 1990 (FBIS-SOV-90-202, October 18, 1990, p. 7). After President Bush's State of the Union address, they quickly picked up on a New York Times report that the new system would consist of 1,000 land-based and 1,000 space-based interceptors. See: Vladimir Chernyshev report, Moscow TASS in English, 1922 GMT, February 1, 1991 (FBIS-SOV-91-023, February 4, 1991, p. 1) and Vladislav Kozyakov commentary on Moscow World Service in English, 2300 GMT, February 14, 1991 (FBIS-SOV-91-033, February 19, 1991, p. 1).

(59) For additional details, see "The President's New Focus For SDI: Global Protection Against Limited Strikes (GPALS)," distributed by the DoD's Strategic Defense Initiative Office, June 6, 1991, 8 pp.

(60) Examples used by GEN Powell in his April 1991 testimony before the Defense Base Closure Commission included the: 1st Infantry Division (ID) from Ft. Riley, KS, 4th Mechanized ID from Ft. Carson, CO, 5th Mechanized ID from Ft. Hood, TX, and the 194th Armoured Brigade from Ft. Knox, KY. GEN Powell used the new home bases for all units in his testimony.

(61) Suggested also by former Soviet Foreign Minister Eduard Shevardnadze in his statement to the Second International Conference on "The Asia-Pacific Region -- Dialogue, Peace, Cooperation," in Vladivostok, carried by Moscow TASS in English at 0844 GMT, September 4, 1990 (FBIS-SOV-90-172, September 5, 1990, pp. 3-10) and carried by Vladivostok Domestic Service in Russian at 2309 GMT, September 3, 1990 (FBIS-SOV-90-175, September 10, 1990, pp. 4-6 notes the differences between the sixty minute Russian and the English versions).

(62) Soviet criticism of a unilateral U.S. crisis response force was to be expected. In unofficial commentary by political analyst Yuriy Tyssovskiy broadcast by Moscow TASS in English at 1527 GMT on December 7, 1990 (FBIS-SOV-90-237, December 10, 1990, p. 16), the Soviets stated that:

"No questions would be asked if the new fire brigade force were created within the framework of the United Nations and their military committee and manned by troops from different countries. Such a force could then act as a powerful factor in support of a new world order."

(63) It is also possible that the Contingency Force may be assigned with responsibility for South Asia.

(64) Examples used by GEN Powell in his April 1991 testimony

before the Defense Base Closure Commission included the: 82nd Airborne Division from Ft. Bragg, NC, 101st Airborne Division from Ft. Campbell, KY, 7th Light ID from Ft. Lewis, WA, and the 24th Mechanized Infantry Division from Ft. Stewart, GA. GEN Powell used the new home bases for all units in his testimony.

(65) The Air Force has made a case for the use of U.S.-based airpower to respond to future crises. See: Department of the Air Force, "The Air Force and U.S. National Security: Global Reach - Global Power," A White Paper, June 1990, especially pp. 8-11, 15.

(66) "Warfighting," FMFM 1, March 6, 1989, 88 pp. This document's lack of significant use of the word "amphibious" is indicative of a shift in service self-identity. On the other hand, General Gray claims that "this type of operation can achieve objectives at the strategic, operational, and tactical levels of warfare." See: A.M. Gray, "Leaning Forward," Sea Power, Vol. 34, No. 4, p. 67.

(67) "A Report by Admiral F.B. Kelso, II, Chief of Naval Operations, on the Posture and Fiscal Year 1992-1993 Budget of the U.S. Navy," 14 February 1991, Appendix, pp. 3-4.

(68) Adam B. Siegel, "The Use of Naval Forces in the Post-War Era: U.S. Navy and U.S. Marine Corps Crisis Response Activity, 1946-1990," CRM 90-246, Alexandria, VA: Center for Naval Analyses, February 1991, 60 pp.

(69) Francis R. Donovan, "Surge and Sustainment," and L. Edgar Prina, "Jones Committee Focuses on Sealift Deficiencies," Sea Power, Vol. 33, No. 11, November 1990, pp. 39-50; and John G. Roos, "While DoD Sorts Out Sealift Shortfall, Army Planners 'Packaging' the Force," Armed Forces Journal International, Vol. 128, No. 4, November 1990, pp. 18-20; and "We Have Averted a World War: Interview with House Defense Appropriations Subcommittee Chairman John P. Murtha," Sea Power, Vol. 33, No. 11, December 1990, pp. 10-11, contain initial attempts to provide "lessons learned" from Operation DESERT SHIELD.

(70) Gordon Jacobs, "Desert Shield Sealift" and H.T. Lenton, "Maritime Aspects of Operation Desert Shield," Navy International, Vol. 95, No. 11, November 1990, pp. 387-390 & 396-399; F. Clifton Berry, Jr., "Massive Airlift Stabilized Situation," National Defense, Vol. LXXV, No. 463, December 1990, pp. 6-8; Charles W. Corddry, "Even as Navy Builds up its Middle East Forces, a Drastic Build Down is Being Eyed by Planners," Sea Power, No. 34, No. 1, January 1991, p. 10; and John G. Roos, "MAC, Reserve Air Fleet Pull Off 162-Day 'Surge' for Desert Storm," Armed Forces Journal International, Vol. 128, No. 6, February, 1991, p. 28.

(71) "NATO Transformed: The London Declaration," Selected Documents, No. 38, Bureau of Public Affairs, Department of State, containing the London Declaration on a Transformed North Atlantic Alliance issued by the Heads of State and Government participating in the meeting of the North Atlantic Council on July 5-6,

1990.

(72) General John R. Galvin, USA, NATO Supreme Allied Commander Europe, "SACEUR DPC Remarks, Brussels, BE, 6 Dec 90" transcript, 4 pp.

(73) There appears to be a definite difference in the use of the term "reconstitution" by NATO and as envisaged by the President and Secretary Cheney. NATO officials have been talking in terms of mobilization over a longer period rather than the creation of wholly new forces. A similar problem exists even in the U.S. The U.S. Army uses the term "reconstitution" to mean both a return of operationally deployed units to pre-hostilities levels of capability as well as to rebuild forces as envisaged by Secretary Cheney.

(74) General John R. Galvin, USA "Transcript SACEUR's Remarks with Carnegie Endowment for International Peace, Washington, D.C., 8 January 1991," CARNEGIE.TR, p. 13.

(75) Yu. Subbotin, "Security is Trust," Moscow Sovetskaya Rossiya in Russian, November 21, 1990, 2nd Ed., p. 3 (FBIS-SCV-90-229, November 28, 1990, p. 3).

(76) Philip A.G. Sabin, British Strategic Priorities in the 1990s, Adelphi Papers 254, London: International Institute for Strategic Studies, Winter 1990, p. 9.

(77) General John R. Galvin, USA "Transcript SACEUR's Remarks with Carnegie Endowment for International Peace, Washington, D.C., 8 January 1991," CARNEGIE.TR, pp. 13-14, 15.

(78) The maritime C-in-Cs appear to be eager to enter the debate. For example, Admiral Sir Benjamin Bathurst, Commander-in-Chief, Channel and Eastern Atlantic Area, "New NATO Strategy: The Maritime Element," NAVY International, Vol. 96, No. 5, May 1991, pp. 135-137.

(79) "SACEUR's Presentation and Question/Answer Period" at the 30th Annual Reunion of the SHAPE Officers' Association, Saturday, October 13, 1990, SHAPE Officers' Association Newsletter, No. 84, December 1990, p. 8.

(80) V. Peresada's report "Preparing for Changes -- NATO Council Sessions Ends," Moscow Pravda in Russian, December 20, 1990, 2nd Ed., p. 1 (FBIS-SOV-90-249, December 27, 1990, p. 3), notes that NATO Secretary General Manfred Wörner is reported to have stated that the new strategy will be "elaborated by the summer of next year."

(81) "Transcript, SACEUR's Remarks, International Institute for Strategic Studies, Commonwealth House, London, United Kingdom, 21 February 1991," IISS.DR, 9 pp.

(82) Paul L. Montgomery, "NATO Is Planning To Cut U.S. Forces In Europe By 50%," New York Times, May 29, 1991, p. A6.

(83) General of the Army S.P. Ivanov, "From the Experience of Preparation and Conduct of the Manchurian Operation of 1945," Moscow Voyennaya Mysl in Russian, No. 8, August 1990, pp. 42-48 (JPRS-UMT-90-008-L, October 23, 1990, pp. 25-29).

(84) The Voroshilov Lectures: Materials from the Soviet General Staff Academy, Vol. I: Issues of Soviet Military Strategy, Compiled by Ghulam D. Wardak, Graham H. Turbiville, Jr., Gen. Ed., Washington, D.C.: National Defense University Press, June 1989, p. 273. Of note is the recent removal of the name Voroshilov from the General Staff Academy. See: Moscow TASS report in English, 1218 GMT, January 8, 1991 (FBIS-SOV-91-006, January 9, 1991, p. 27).

(85) Marshal of the Soviet Union Nikolay V. Ogarkov, then-Chief of the General Staff, Always Prepared to Defend the Fatherland in Russian, Moscow: Voenizdat, 1982, pp. 34-35 (JPRS L/10412, March 25, 1982, pp. 24-25) and after his reassignment, History Teaches Vigilance in Russian, Moscow: Voenizdat, 1985 (JPRS-UMA-85-021-L Corrected, November 13, 1985, p. 32).

(86) "On the Military Doctrine of the USSR (Draft)," Moscow Voyennaya Mysl in Russian, Special Issue, signed to press November 30, 1990, pp. 24-28 (JPRS-UMT-91-001-L, January 3, 1991, pp. 14-17).

(87) Andrei A. Kokoshin and General-Major Valentin V. Larionov, "Counterpositioning Conventional Forces in the Context of Ensuring Strategic Stability," Moscow Mirovaya Ekonomika I Mezhdunarodnyye Otnosheniya in Russian, No. 6, June 1988, pp. 23-31 (SASO translation, 13 pp.); and "Re-Thinking Victory. An Interview with Andrei Kokoshin" (USA and Canada Institute Deputy Director) Leeds Detente in English, No. 13, November 17, 1988 (FBIS-SOV-88-238 Annex, December 12, 1988, p. 13). The new models of defense have also been explained further by Larionov in his presentations at a conference on "Soviet Military Doctrine in a Changing Era," at Old Dominion University, Norfolk, Virginia, May 25-27, 1989 and in the subsequent preparation of these presentations in draft chapter form (21 pp. undated). For some reason, this chapter did not appear in the book of conference proceedings.

(88) Interview with Marshal of the Soviet Union Sergei F. Akhromeyev, contained both in "The Doctrine of a New Policy," Warsaw Zolnierz Wolnosci in Polish, November 9, 1989, p. 4 (FBIS-SOV-89-221, November 17, 1989, p. 108) and "Our Military Doctrine," Moscow Agitator Armii I Flota in Russian, No. 24, 1989 (FBIS-SOV-90-021, January 31, 1990, p. 115).

(89) Marshal of the Soviet Union V.D. Sokolovskiy, Soviet Military Strategy, 3rd Ed., Ed. with an analysis and commentary by Harriet Fast Scott, New York, NY: Crane, Russak & Company, Inc., 1980 (first paper edition), p. 134.

(90) Interview with Army General Mikhail A. Moiseyev, "Military Reform: Reality and Prospects," Moscow Krasnaya Zvezda in Russian, November 20, 1990, 1st Ed., p. 2 (FBIS-SOV-90-225, November

21, 1990, pp. 49-54).

(91) Marshal of the Soviet Union Dmitriy Yazov, USSR Minister of Defense, "USSR Ministry of Defense Draft Military Reform Concept," Moscow Pravitelstvennyy Vestnik in Russian, No. 48, November 1990, pp. 5-10 (FBIS-SOV-90-239, December 12, 1990, pp. 62-75; or JPRS-UMA-90-028, December 17, 1990, pp. 52-70); or as published in Moscow Voyennaya Mysl in Russian, Special Edition, signed to press November 30, 1990, pp. 3-23 (JPRS-UMT-91-001-L, January 3, 1991, pp. 1-14).

(92) General-Colonel A.N. Kleymentov, "On Certain Methodological Approaches to Solving Problems of War and Peace (Military-Political Aspect), Moscow Voyennaya Mysl in Russian, No. 9, September 1990 (JPRS-UMT-90-009-L, November 21, 1990, p. 9).

(93) General-Major V. Ivanov, senior lecturer at the General Staff Academy of the USSR, "Radical Renewal or 'Cosmetic Repair'?" Moscow Kommunist Vooruzhennykh Sil in Russian, No. 15, August 1990, pp. 15-20 (FBIS-SOV-90-180-S, September 17, 1990, pp. 40-44).

(94) Colonel N.F. Azyasskiy, "On the Strategic Deployment of the Armed Forces of Germany and the Soviet Union in 1941," Moscow Voyennaya Mysl in Russian, No. 8, August 1990 (JPRS-UMT-90-008-L, October 23, 1990, pp. 7-8).

(95) An example of the continuing debate is Sergey Mikhaylovich Rogov, "What Kind of Military Reform?" Moscow Kommunist in Russian, No. 6, April 1991, pp. 88-99 (FBIS-SOV-91-137-A, July 17, 1991, pp. 5-13). This article directly criticizes the USSR Defense Ministry "Concept of Military Reform" for failing to take into account doctrinal, strategy, and force structure changes going on in the U.S. and other foreign nations.

(96) James J. Tritten, "Superpower War Termination: The Maritime Component," The Journal of Soviet Military Studies, Vol. 4, No. 1, March 1991, pp. 1-29, further develops this concept.

(97) SACEUR General John R. Galvin, USA, took this position recently in "Transcript SACEUR's Remarks with Carnegie Endowment for International Peace, Washington, D.C., 8 January 1991," CARNEGIE.TR, pp. 9-10.

(98) "President's Speech on Military Spending and a New Defense," New York Times, March 24, 1983, p. 20.

(99) Caspar W. Weinberger speech to the Aviation and Space Writers Association on April 11, 1983, contained in "The Administration's Policy on Strategic Defense," Defense Science & Electronics, May 1983, pp. 21-23.

(100) This was the group that produced the Future Security Strategy Study headed by Fred S. Hoffman, director of Pan Heuristics, and Defense Technologies Study Team, also known as the Fletcher Panel for its chairman, James C. Fletcher, former head

of the National Aeronautics and Space Administration.

(101) Caspar W. Weinberger, Secretary of Defense, Annual Report to the Congress, Fiscal Year 1985, February 1, 1984, pp. 30, 193-194.

(102) Caspar W. Weinberger, Secretary of Defense, Annual Report to the Congress, Fiscal Year 1984, February 1, 1983, pp. 34, 225-228.

(103) An initial look at nonstandard scenarios is contained in James A. Winnefeld & David A. Shlapak, "The Challenge of Future Nonstandard Contingencies: Implications for Strategy, Planning, Crisis Management, and Forces, Volume I," RAND/N-3098/1-DAG, Santa Monica: The RAND Corporation, October 1990, 69 pp.; and "Volume II," RAND/N-3098/2-DAG, 182 pp.

(104) John M. Kenny, "The Dibb Report: Three Years After," NPS-56-89-016, Monterey, California: Naval Postgraduate School Technical Report, August 1989, 68 pp.

(105) Lieutenant T.R. Frame, Royal Australian Navy, "A Navy Grown Up and On Its Own," U.S. Naval Institute Proceedings, Vol. 115, No. 3, March 1989, pp. 116-123.

(106) For examples of possible Soviet misperceptions of the U.S. military buildup of the 1980s, see commentary by ex-KGB Officer Oleg Gordievsky as recently published widely in the West. Oleg Gordievsky, "Pershing Paranoia in the Kremlin," London The Times in English, February 27, 1990, pp. 12-13 (FBIS-SOV-90-052-A, March 16, 1990, pp. 11-15); and an excerpt of the new book KGB: The Inside Story, by Christopher Andrew in cooperation with Gordievsky, was published in the U.S. by Time, Vol. 136, No. 17, October 22, 1990, pp. 72-82 (page 80-82 are of most interest).

(107) The Soviet press covered a report in the April 19 Washington Post that the U.S. Strategic Air Command and Pentagon have revised their "Strategic (sic) Integrated Operations Plan" (SIOP) to delete 1,000 targets in Eastern Europe. According to Soviet sources, the new plan, termed SIOP-7, "hastily" deleted these targets last year. See, Vladimir Bogachev Moscow TASS report in English, 1904 GMT, April 22, 1991 (FBIS-SOV-91-078, April 23, 1991, p. 1); CAPT S. Sidorov, "Attracted by the Cold?..." Moscow Krasnaya Zvezda in Russian, April 25, 1991, 1st Ed., p. 3 (FBIS-SOV-91-081, April 26, 1991, p. 1); and Valentin Zorin commentary on Moscow World Service in English, 0000 GMT, April 28, 1991 (FBIS-SOV-91-082, April 29, 1991, pp. 3-4). The story is also covered by Robert C. Toth in "U.S. Scratches Nuclear Targets in Soviet Bloc," Los Angeles Times, April 19, 1991, p. 1.

(108) Keith A. Dunn, "The Missing Link in Conflict Termination Thought: Strategy," in Conflict Termination and Military Strategy, Stephen J. Cimbala and Keith A. Dunn, Eds., Boulder, Colorado: Westview Press, 1987, p. 185.

(109) Keith A. Dunn, "The Missing Link in Conflict Termination

Thought: Strategy," in Conflict Termination and Military Strategy, Stephen J. Cimbala and Keith A. Dunn, Eds., Boulder, Colorado: Westview Press, 1987, pp. 186-190.

(110) Brigadier General Daniel W. Christman, USA, Director of Strategy, Plans, and Policy for the U.S. Army Staff, has also drawn a parallel between Operation DESERT SHIELD and our new contingency-based strategy. Interestingly, he credits former Chairman of the JCS, Admiral William J. Crowe, USN, with initiating the current redirection of U.S. national security strategy. See his "Desert Shield: Test of a New 'Contingency' Strategy," Armed Forces Journal International, Vol. 128, No. 5, December 1990, p. 50.

(111) Most Europeans at the IISS conference, and those that the author has met with over the past nine months, have attempted to make the argument that the Contingency Force could and should be based in Europe.

(112) James Blackwell, et. al., The Gulf War: Military Lessons Learned - Interim Report of the CSIS Study Group on Lessons Learned from the Gulf War, Washington, D.C.: The Center for Strategic & International Studies, 1991, 53 pp., purports to do just this in their last chapter (pp. 45-53). The study authors criticize what they term as "the U.S. military's new regional contingencies strategy," without demonstrating that they have fully internalized the implications of the new national security strategy. Instead, the authors refer to a previous CSIS study and prefer to recommend it rather than analyze the consequences of what has been charted by the Bush Administration.

(113) The first official DoD report on these Operations concentrated on the military conduct of the conflict rather than the lessons for the new strategy. See, Department of Defense, Conduct of the Persian Gulf Conflict: An Interim Report to Congress, July 1991. The first maritime lessons can be found in, Department of the Navy, The United States Navy in "DESERT SHIELD" "DESERT STORM", Washington, D.C.: Office of the Chief of Naval Operations, 15 May, 1991.

(114) V. Gan, "United States: Boost for 'Star Wars'," Moscow Pravda in Russian, February 11, 1991, 1st Ed., p. 6 (FBIS-SOV-91-028, February 11, 1991, pp. 1-2).

(115) See the Department of Defense, Conduct of the Persian Gulf Conflict: An Interim Report to Congress, July 1991, p. 2-7:

"...Coalition political leaders and commanders may have held some hope that the air phases of the theater campaign plan might cause Saddam to agree to Coalition demands without the need to launch a ground offensive..."

(116) Even in retrospect, most politically-aware American "experts" still would not have predicted the Bush Administra-

tion's actions and public support for those actions during the events in the Persian Gulf.

(117) Suggested by General-Major Valentin Larionov in "Combat Readiness and Security: Will People Stop Playing at War?" Moscow New Times in English, No. 37, September 12-18, 1989, p. 14; and by General-Major Yuriy Kirshin in "Why is Military Reform Needed?" Moscow New Times in English, No. 12, March 20-26, 1990 (FBIS-SOV-90-066, April 5, 1990, p. 69). Before dismissing this suggestion out of hand, the reader is reminded that General Colin Powell, U.S. Army, Chairman of the Joint Chiefs of Staff, did not rule out the possibility of joint exercises with the Soviet Armed Forces when he and Army General Mikhail A. Moiseyev, Chief of the Soviet General Staff, were interviewed by ABC newsman Ted Koppel on "Nightline," July 25, 1991.

(118) The failure by the U.S. to capture North Vietnamese behavior with "red" team players in late 1960s - early 1970s politico-military war games has been addressed by General Bruce Palmer, Jr. in his The 25-Year War: America's Military Role in Vietnam, Lexington: University Press of Kentucky, 1984, p. 29.

(119) "Statement of Rear Admiral Thomas A. Brooks, USN, Director of Naval Intelligence, Before the Seapower, Strategic, and Critical Materials Subcommittee of the House Armed Services Committee, on Intelligence Issues, March 7, 1991," pp. 98-99.

(120) Bruce D. Berkowitz and Allan E. Goodman, Strategic Intelligence for American National Security, Princeton, New Jersey, 1989, pp. 21-22.

(121) This fact has not gone unnoticed by the Soviet Union. See: I. Kulkov, "Is the CIA Changing? U.S. Intelligence in the Era of Glasnost," Moscow Krasnaya Zvezda in Russian, January 3, 1991, 1st Ed., p. 3 (FBIS-SOV-91-003, January 4, 1991, pp. 6-7); and Vladimir Kireyevskiy, "A Double Yardstick," Moscow Rabochaya Tribuna in Russian, April 26, 1991, p. 3 (FBIS-SOV-91-086, May 3, 1991, pp. 5-6). On the other hand, from published U.S. reports, the DoD is avoiding any entry into economic intelligence. See: William Matthews, "Intelligence Reorganization Focuses on Cuts, Mergers," Navy Times, May 13, 1991, p. 13.

(122) Soviet Military Power - 1990, 9th Ed., September 1990, p. 54 states that "...a short-warning or pre-emptive strategic nuclear attack against the continental United States for the foreseeable future...is judged to be unlikely."

(123) "SACEUR's Presentation and Question/Answer Period" at the 30th Annual Reunion of the SHAPE Officers' Association, Saturday, October 13, 1990, SHAPE Officers' Association Newsletter, No. 84, December 1990, p. 12.

(124) Stephen Roskill, Naval Policy Between the Wars, Vol. II - The Period of Reluctant Rearmament 1930-1939, Annapolis, Maryland: Naval Institute Press, 1976, p. 371.

(125) Bruce D. Berkowitz and Allan E. Goodman, Strategic Intelligence for American National Security, Princeton, New Jersey, 1989, pp. 99-100; and Barton Whaley, Covert German Rearmament, 1919-1939: Deception and Misperception, Frederick, Maryland: University Press of America, 1984, pp. 91-93.

(126) According to a recent Soviet report taken from a Polish newspaper, the Polish military has already been "rehearsing operations on exercises" that included an offensive from an "eastern enemy." See LTC V. Petrukhin, "Poland Has New 'Enemy'," Moscow Krasnaya Zvezda in Russian, March 5, 1991, 1st Ed., p. 3 (FBIS-SOV-91-046, March 8, 1991, pp. 29-30).

(127) As far-fetched as this sounds, it is interesting to note that this exact scenario was examined at a forum "Civic Control Over Security" that took place in Rostov-on-Don. The forum was sponsored by the magazine Mezhdunarodnaya Zhizn and the School for Strategy of Socio-Intellectual Enterprise. See: Konstantine Ovchinnikov, "'Independent' War Games Described," Moscow New Times in English, No. 39, October 1, 1990, p. 32 (JPRS-UIA-90-017, November 6, 1990, p. 1).

(128) The next four sections draw heavily upon discussions, presentations, and draft position papers from the "What if Peace?" National Science and Technology Policy Conference sponsored by the California Engineering Foundation and Aviation Week and Space Technology, November 28-29, 1990, Costa Mesa, California. Attendees at this conference explicitly addressed the issues related to industrial capability to respond to the new strategy.

(129) Suggested recently by M. Aleksandrov in "Military Doctrine in Uncertain Perspective," Moscow Literaturnaya Rossiya in Russian, No. 40, October 5, 1990, p. 9 (JPRS-UMA-90-028, December 17, 1990, p. 50).

(130) John F. Peel Brahtz, "Modularized Ocean Basing System - A United States Option in a Strategy of Discriminate Deterrence (Circa 2000), R-928, Port Hueneme, CA: Naval Civil Engineering Laboratory Technical Report, November 1989 and J.D. Hightower, T.P. Rona, and H.R. Talkington, "Floating Stable Platforms: Concepts and U.S. Activities," San Diego, CA: Naval Ocean Systems Center, undated.

(131) Contrary to customary use of the term "mutual assured destruction," MAD should only be used to describe a world where both sides have left themselves **vulnerable** to the other's attacks. Most authors and scholars emphasize the offensive aspects of MAD - true, each side has a powerful force of missiles and bombers, however, one side - the USSR - never abandoned its major defenses against bombers, actually fielded a limited defense against missiles, maintained a passive defense system, and an aggressive R&D program for antisubmarine warfare. Such a world is **not** in keeping with the philosophy of mutual **assured** destruction.

(132) U.S. Congress, Office of Technology Assessment, New Technology for NATO: Implementing Follow-On Force Attack, OTA-ISC-309, Washington, D.C.: U.S. Government Printing Office, June 1987, 230 pp.

(133) U.S. Congress, Office of Technology Assessment, Holding the Edge: Maintaining the Defense Technology Base, OTA-ISC-420, Washington, D.C.: U.S. Government Printing Office, April 1989, 187 pp.; and The Defense Technology Base: Introduction and Overview, A Special Report of OTA's Assessment on Maintaining the Defense Technology Base, OTA-ISC-374, March 1988, 113 pp.

(134) See: Martin C. Libicki, What Makes Industries Strategic, McNair Papers, No. 5, Washington, D.C.: National Defense University, Institute for National Strategic Studies, November 1989, 89 pp.

(135) New Thinking and American Defense Technology, New York: Carnegie Commission on Science, Technology, and Government, August 1990, p. 11.

(136) Comments of Rear Admiral Yu M. Khaliulin, Crimea Oblast Soviet deputy and Deputy Commander of the Black Sea Fleet, contained in excerpts of a TASS Report of a November 13, 1990 meeting between military people's deputies and Mikhail S. Gorbachev, "The Army Will Not Be Separated From the People; USSR President's Meeting With Deputies Who Are Also Servicemen," Moscow Krasnaya Zvezda in Russian, 16 November 1990, p. 4 (FBIS-SOV-90-225, 21 November 1990, p. 70).

(137) "Defense Deputy Secretary Donald Atwood Address to the American Institute of Aeronautics and Astronautics," May 1, 1991, at the Hyatt Regency Crystal City, Arlington, Virginia, Reuter Transcript Report, p. 7;

"...I believe the free economic system is the system which should determine who wins, who loses, who merges. I believe in the free marketplace. I don't think we, the Department of Defense surely, have the capability to try to plan any kind of industrial policy. Quite the contrary. The free marketplace has to determine. Our role is to sponsor research and development and our role is to make sure people know what we're going to buy. And let the marketplace determine those in between."

(138) Initial costs of \$30B for a Five-Year Plan represent only a fraction of the hundreds of billions of dollars that could ultimately be required. See: Office of Technology Assessment, Complex Cleanup: The Environmental Legacy of Nuclear Weapons Production, OTA-O 484, February 1991, 212 pp.

(139) The DoD has already started moving in this direction with

the expansion of International Military Education and Training (IMET) resource allocation courses at the Defense Education Resources Management Center (DRMEC) in Monterey, CA. This school saw its first contingent of Eastern Europeans in July 1991.

(140) Congress is just beginning to explore its role in this process. The Office of Technology Assessment has just completed a background paper, "Adjusting to a New Security Environment: The Defense Technology and Industrial Base Challenge," OTA-BP-ISC-79, February 1991, 16 pp. This paper accepts the emerging changes in the national security environment and attempts to provide a first look at "what form the future defense technology and industrial base might take; what form it ought to take; what government policies can do to draw these two together; and how the sweeping changes expected in the base can be managed to minimize adverse economic effects and ensure sufficient technology and industrial capability to meet the Nation's needs." This preliminary report from OTA at least makes mention of the "Base Force" and President Bush's proposed "Reconstituted Force," it is obvious that the authors either did not have a complete understanding of the implications of the new national security strategy or that they chose to not consider the probability that this proposed strategy would survive Congressional oversight. A final report is to be delivered in the Spring of 1992.

(141) G.A.H. Gordon, British Seapower and Procurement Between the Wars: A Reappraisal of Rearmament, Annapolis, Maryland: Naval Institute Press, 1988, 321 pp.; and Thomas C. Hone, "Fighting on Our Own Ground: The War of Production, 1920-1942," unpublished paper, circa 1991, 17 pp.

(142) Fred C. Ikle, "Industrial Mobilization Planning: Critical to National Defense," based upon remarks to the Society of Manufacturing Engineers Conference, Detroit, November 9, 1987, printed in Defense 88, January/February 1988, pp. 15-18.

(143) A "Graduated Mobilization Response" system was investigated by the DoD in the 1980s but largely as a component of our deterrent strategy vis-a-vis the USSR. On the general subject of industrial mobilization capabilities, see: Martin C. Libicki, Industrial Strength Defense: A Disquisition on Manufacturing, Surge and War, Washington, D.C.: National Defense University Mobilization Concepts Development Center, undated but printed in 1986, 164 pp.; and John N. Ellison, Jeffrey W. Frumkin, and Timothy W. Stanley, Mobilizing U.S. Industry: A Vanishing Option for National Security? Boulder, CO: Westview Press, 1988, 126 pp.

(144) James R. Gallagher, "Graduated Mobilization Response Concept Overdue," National Defense, Vol. LXXV, No. 464, January 1991, p. 23.

(145) Such a stockpile would be very difficult to manage due to the transitory nature of "critical" components.

(146) Congressional Budget Office, Strategic and Critical Non-fuel Minerals: Problems and Policy Alternatives, Washington,

D.C.: U.S. Government Printing Office, August 1983, pp. 75-77.

(147) LTG Bernard E. Trainor, USMC (Ret.), "A Force 'Employment' Capability, Extract Marine Corps Gazette, May 1990, p. 31.

(148) These are called Logistics Support Vessels (LSV) and Landing Craft Utility (LCU). The former are ocean-going vessels, 273 feet in length, a crew of 29 soldiers, and a cargo capacity of 15 M1A1 tanks or 27 M2 Bradleys. See: The Honorable Michael P.W. Stone and General Carl E. Vuono, Trained and Ready: The United States Army Posture Statement FY 92/93, February 15, 1991, p. 74. We should also remember that most of the U.S. European theater amphibious operations during World War II were conducted by the Army and not the Marine Corps.

(149) On the other hand, it has been reported that GEN Powell is indeed considering changes to the Unified Command Plan (UCP). See: Casey Anderson, "New Conventional, Nuclear Commands See," Air Force Times, February 11, 1991, p. 3, reporting on GEN McPeak's remarks at an AFA Conference in Lake Buena Vista, Florida, on January 31, 1991; and "The Air Force of the '90s," and interview with the Air Force Chief of Staff by COL Charles D. Cooper, USAF-Ret., Editor, The Retired Officer, Vol. XLVII, No. 6, June 1991, p. 29.

(150) In addition to the comments by the Chief of Staff of the Air Force, GEN McPeak, see also: VADM Bernard M. Kauderer, USN (Ret.), "From the President" & VADM Daniel L. Cooper, USN (Ret.), "Submarines and the Face of Change," Submarine Review, April 1991, pp. 2, 7; RADM J.C. Wylie, USN (Ret.), "Heads Up, Navy," U.S. Naval Institute Proceedings, Vol. 117, No. 5, May 1991, pp. 17-18; Barbara Opall, "Pentagon Irons Out Plan to Merge Nuclear Forces," Defense News, May 13, 1991, p. 48; Peter Grier, "US Military Chiefs May Combine Commands," Christian Science Monitor, May 15, 1991, p. 9; and RADM W.J. Holland, Jr., USN (Ret.), "Strategic Command - Who Needs It and Why?" U.S. Naval Institute Proceedings, Vol. 117, No. 8, August 1991, p. 13.

(151) See: Eliot A. Cohen, "After the Battle," The New Republic, April 1, 1991, pp. 19-26.

(152) Eliot A. Cohen, "The Future of Force and American Strategy," The National Interest, No. 21, Fall 1990, p. 13.

(153) Perry M. Smith, "Long-Range Planning: A National Necessity," in Creating Strategic Vision: Long-Range Planning for National Security, by Perry M. Smith, et. al., Washington, D.C.: National Defense University Press, 1987, p. 5 discusses the types of innovative individuals who will be required for this effort.

(154) Opponents of the new national security strategy may embrace arms control as a mechanism to derail the transition.

(155) Portions of this section were developed for a precis of this report published in the professional journal of the Military Operations Research Society. See: "A New National Security

Strategy," Phalanx, Vol. 24, No. 1, March 1991, pp. 11-13.

(156) The encouragement for operations research practitioners to delve into the world of strategy, and the perception that they often do not, was addressed in Craig W. Kirkwood's, "Does Operations Research Address Strategy?" Operations Research, Vol. 38, No. 5, September-October 1990, pp. 747-751.

(157) The Military Operations Research Society (MORS) addressed all of these subjects at their 59th MORS Symposium at West Point in June 1991.

(158) Gerald F. Seib, "War Games for the New World Order," Wall Street Journal, Thursday, August 1, 1991, p. A12.

(159) Konstantine Ovchinnikov, "'Independent' War Games Described, Moscow New Times in English, No. 39, October 1990, p. 32 (JPRS-UIA-90-017, November 6, 1990, p. 1).

(160) John Train, "When can Sanctions Succeed?" Wall Street Journal, June 14, 1989, p. 14.

(161) General Accounting Office, "Industrial Base: Significance of DOD's Foreign Dependence," Report to the Chairman, Subcommittee on Technology and National Security, Joint Economic Committee, U.S. Congress, GAO/NSIAD-91-93, January 1991, 26 pp.

(162) The Air Force has accepted the coming debate over roles and missions. See, for example: LTC Gregory S. Parnell, USAF, et. al., "Methodology for Analyzing Global Reach -- Global Power," Washington, D.C.: Air Force Center for Studies & Analysis, White Paper, October 11, 1990, pp. 2, 21-22.

(163) The Honorable H. Lawrence Garrett III, Secretary of the Navy, Admiral Frank B. Kelso II, Chief of Naval Operations, & General A.M. Gray, Commandant of the Marine Corps, "The Way Ahead," U.S. Naval Institute Proceedings, Vol. 117, No. 4, April 1991, pp. 36-47.

(164) "The Secretary of the Navy's Posture Statement - A Report by The Honorable H. Lawrence Garrett, III, Secretary of the Navy, on the Posture and the Fiscal Year 1992-1993 Budget of the United States Navy and Marine Corps," undated but delivered February 21, 1991, pp. 6, 19.

(165) "A Report by Admiral F.B. Kelso, II, Chief of Naval Operations, on the Posture and Fiscal Year 1992-1993 Budget of the U.S. Navy," 14 February 1991, Appendix pp. 3-4; and "The Secretary of the Navy's Posture Statement - A Report by The Honorable H. Lawrence Garrett, III, Secretary of the Navy, on the Posture and the Fiscal Year 1992-1993 Budget of the United States Navy and Marine Corps," undated but delivered February 21, 1991, p. 10.

(166) RADM J.C. Wylie, USN (Ret.), "Heads Up, Navy," U.S. Naval Institute Proceedings, Vol. 117, No. 5, May 1991, pp. 17-18.

(167) Another Navy study concluded that the recent review of strategy leading to President Bush's speech at Aspen was only possible due to: the fiscal crisis, the waning threat, and the new powers of the Chairman of the JCS authorized by the Goldwater Nichols Act - all of which did not come together until General Powell became the Chairman of the JCS. See: CDR William F. Hickman, USN, "Is the Maritime Strategy Dead?" Newport, R.I.: Naval War College, unpublished winner in the 1991 Chairman, Joint Chiefs of Staff Strategic Essay Competition, pp. 7-9.

(168) John F. Morton, "The U.S. Navy in 1990," U.S. Naval Institute Proceedings, Vol. 117, No. 5, May 1991, pp. 124-133.

(169) RADM W.J. Holland, Jr., USN (Ret.), "Strategic Command - Who Needs It and Why?" U.S. Naval Institute Proceedings, Vol. 117, No. 8, August 1991, p. 13.

(170) VADM Stanley R. Arthur, USN, and Marvin Pokrant, "Desert Storm at Sea," U.S. Naval Institute Proceedings/Naval Review, Vol. 117, No. 5, May 1991, pp. 82-87; RADM Riley D. Mixson, USN, "Where We Must Do Better," U.S. Naval Institute Proceedings, Vol. 117, No. 8, August 1991, pp. 38-39.

(171) LCDR Sam J. Tangredi, "Comment and Discussion - A Strategy in the Navy's Best Interest," U.S. Naval Institute Proceedings, Vol. 117, No. 7, July 1991, pp. 14-16.

(172) CDR Donald P. Loren, "Comment and Discussion - Heads Up, Navy," U.S. Naval Institute Proceedings, Vol. 117, No. 8, August 1991, pp. 16-19.

(173) James L. George, "A Strategy in the Navy's Best Interest," U.S. Naval Institute Proceedings, Vol. 117, No. 5, pp. 114-123. Although this article is the Prize Essay in the 1991 Arleigh Burke Essay Contest, its placement in the Naval Review 1991 issue of the U.S. Naval Institute Proceedings indicates that the publishers wished to focus more attention to other subjects than it did the recommendations contained in the essay.

(174) Portions of this section were first developed in my precis of this report: "America's New National Security Strategy," The Submarine Review, April 1991, pp. 15-24.

(175) Programming planning appears to have gone along, during much of 1990, without any recognition that the world has changed. See: James L. George, "The USNs Revolution at Sea," Navy International, Vol. 95, No. 10, October 1990, pp. 378-383. There are signs that at least some parts of the Navy recognized the changes and worried about the implications for programming. See: Scott C. Truver, "Whither US Anti-Submarine Warfare, Now That the Threat Has Gone Away?" Naval Forces, Vol. XI, No. V/1990, pp. 8-21.

(176) VADM Daniel L. Cooper, USN (Ret.), "Submarines and the Face of Change," Edward J. Campbell, President and Chief Executive Officer, Newport News Shipbuilding, "Industrial Base," and

James E. Turner, Jr., Executive Vice President, Marine, Land Systems and Services, General Dynamics Corporation, "Maintaining the U.S. Submarine Industrial Base," The Submarine Review, April 1991, pp. 4-8, 27-31, 32-36.

(177) The study for this new submarine has been identified as the "CENTURION," but it is not clear if this will also be the name of the new class.

(178) For an interesting series of articles addressing other roles and missions for the submarine force, see recent issues of The Submarine Review (the journal of the Naval Submarine League) -- especially: "Address to Naval Submarine League Annual Symposium - 14 June 1990" by VADM Daniel L. Cooper, USN, ACNO Undersea Warfare, "SSN's and Low Intensity Conflict" by James C. Hay, both contained in the July 1990 issue, pp. 5-14, 36-42; "Force Commander's Forum - Commander Submarine Force, U.S. Atlantic Fleet" by VADM Roger F. Bacon, USN, October 1990, pp. 83-87; "The Case for a Submarine-Based Anti-Satellite System" by D. Nahrstedt, "The Use of Submarines in Small-Scale Conflicts" by MIDN Sean Osterhaus, and "The U.S. SSN in Third World Conflict (TWC)" by Jim Patton, all in the January 1991 issue, pp. 50-59, 73-78. Admiral Bacon's remarks are covered with additional depth in "Commander Says Sub Force Looks Back for Future" by Jack Dorsey, Norfolk The Virginian-Pilot, December 3, 1990, pp. D1 & D5. Also see Brent A. Ditzler, "Naval Diplomacy Beneath the Waves: A Study of the Coercive Use of Submarines Short of War," Master's Thesis, Monterey, California: Naval Postgraduate School, December 1989, 117 pp. for an excellent example of a submarine officer arguing that submarines have a role in naval diplomacy.

(179) Rear Admiral J.R. Hill, Maritime Strategy for Medium Powers, Annapolis, MD, Naval Institute Press, 1986, p. 97.

(180) Ronald O'Rourke, "Congressional Watch," U.S. Naval Institute Proceedings, Vol. 117, No. 5, p. 171.

(181) "The Top Line of Tomorrow's Navy" Interview with Vice Admiral William D. Smith, Sea Power, Vol. 34, No. 2, February 1991, p. 17; "A Report by Admiral F.B. Kelso, II, Chief of Naval Operations, on the Posture and Fiscal Year 1992-1993 Budget of the U.S. Navy," 14 February 1991, Appendix, p. 4; and "The Secretary of the Navy's Posture Statement - A Report by The Honorable H. Lawrence Garrett, III, Secretary of the Navy, on the Posture and the Fiscal Year 1992-1993 Budget of the United States Navy and Marine Corps," undated but delivered February 21, 1991, p. 12.

(182) It will be interesting to see if this changes given the recent issue of the U.S. Naval Institute Proceedings.

(183) "The Secretary of the Navy's Posture Statement - A Report by The Honorable H. Lawrence Garrett, III, Secretary of the Navy, on the Posture and the Fiscal Year 1992-1993 Budget of the United States Navy and Marine Corps," undated but delivered February 21, 1991, p. 5.

(184) "A Report by Admiral F.B. Kelso, II, Chief of Naval Operations, on the Posture and Fiscal Year 1992-1993 Budget of the U.S. Navy," 14 February 1991, pp. 12-13.

(185) "Statement of Admiral David E. Jeremiah, Vice Chairman of the Joint Chiefs of Staff, Before the Committee on Armed Services, United States House of Representatives, 12 March 1991, 15 pp.

(186) Carl H. Builder, The Army in the Strategic Planning Process: Who Shall Bell the Cat?, R-3513-A, Santa Monica, CA: The RAND Corporation, Arroyo Center - Prepared for the U.S. Army, April 1987, 102 pp. An expanded version of this study was published as The Masks of War: American Military Styles in Strategy and Analysis, Baltimore and London: The Johns Hopkins University Press, 1989, 240 pp.

(187) Department of the Air Force, "The Air Force and U.S. National Security: Global Reach - Global Power," A White Paper, June 1990, 15 pp.

(188) On the other hand, one might conclude that the maritime school has become clearly preeminent.

(189) Recall criticism of the Maritime Strategy of the 1980s for failing to more emphasize the primary role of land forces in attaining political goals that required military forces.

(190) Part of this section draws upon concepts first developed in "Strategic Management for the Defense Department," by James J. Tritten and Nancy Roberts, NPS-56-88-030-PR, Monterey, California: Naval Postgraduate School Technical Report, September 1988, pp. 3-9.

(191) "Sources of Change in the Future Security Environment," A paper by the Future Security Environment Working Group, submitted to the Commission on Integrated Long-Term Strategy," Andrew W. Marshall and Charles Wolf, Working Group Chairmen, April 1988, p. 18. It can also be argued that this state also defines our future leadership in technology.