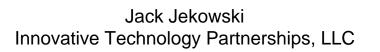


Complex Transformation

and the Future of the U.S. Nuclear Security Enterprise

The Proposed Restructuring of the Nation's Nuclear Weapons Complex...past, present and future?

> INMM SW Chapter Annual Technical Meeting May 21, 2009 Taos, New Mexico



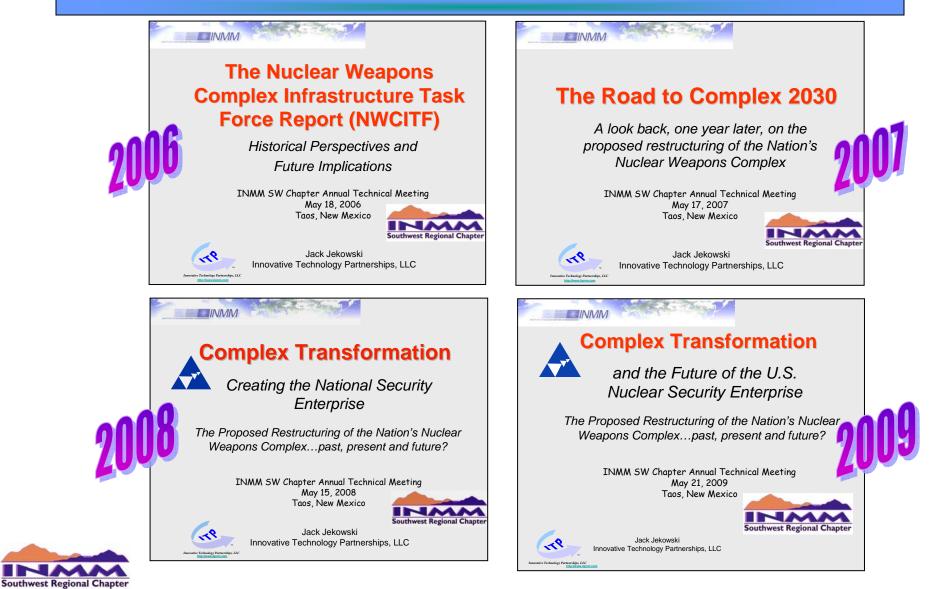
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Innovative Technology Partnerships, LLC http://www.itpnm.com



The Fourth Year of the Saga

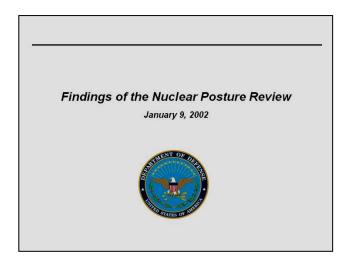
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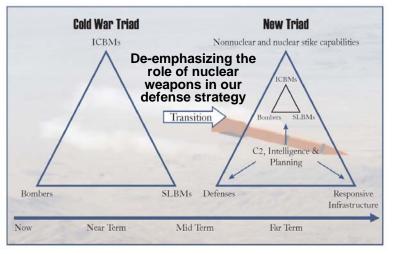


"Defending our nation against its enemies is the first and fundamental commitment of the Federal Government.

The Historical Driver: The New Triad



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NNSA Strategic Plan, November 2004, page 7

"The Nuclear Posture Review (NPR),[1] completed in December 2001, concluded that the 21st century presents a national security environment in which threats may evolve more quickly, be more variable in nature, and be less predictable than in the past. It also recognized that the roles of United States (US) nuclear forces and the infrastructure to support those forces must evolve to meet the requirements of the new threat environment. The NPR calls for a transition from a threat-based nuclear deterrent with large numbers of deployed and reserve weapons to a deterrent based on capabilities with a smaller number of stockpiled nuclear weapons and greater reliance on the capability and responsiveness of US infrastructure to respond to threats. A new triad (Figure 1-1) was defined to illustrate how offensive capabilities, defenses, and a **responsive infrastructure** must be balanced to fulfill future security strategy requirements."

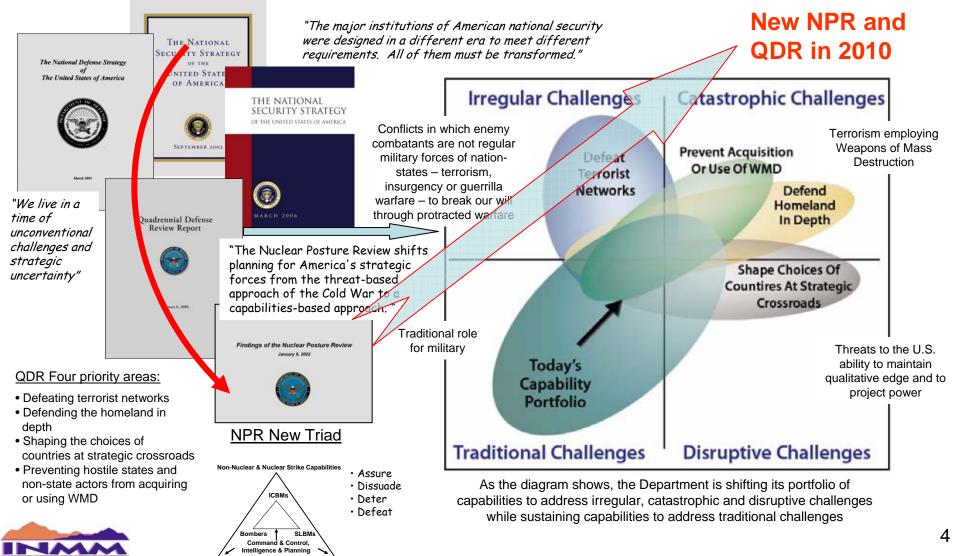
NNSA Transformation Strategy Implementation Plan

[1] <u>Nuclear Posture Review</u>, Report to the Congress in Response to Sections 1041 (as amended) and 1042 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001, PL 106-398, December 2001.





"Defending our nation against its enemies is the first and fundamental commitment of the Federal Government." Strategic Linkages to National Policy



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Defenses

Responsive Infrastructure

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Gates on Stockpile – Pre-Election

 "To be blunt, there is absolutely no way we can maintain a credible deterrent and reduce the number of weapons in our stockpile without either resorting to testing our stockpile or pursuing a modernization program".



Robert Gates, Secretary of Defense Carnegie Endowment for International Peace October 29, 2008





Chilton and Others on Stockpile

- General Kevin Chilton, Commander, U.S. Strategic Command:
 - "We recommend pursuing an alternate weapon modernization strategy. This strategy should focus on improved weapon reliability, safety, security and maintainability...USSTRATCOM supports the continuation of the Reliable Replacement Warhead (RRW) Design Definition and Cost Study..." (February 27, 2008)
 - "The U.S. Stockpile...requires the most urgent attention...the weapons continue to age and decay in ways we may not sufficiently understand...we risk a disruption in confidence from unanticipated technical changes..." (March 17, 2009)
- General Everett Thomas, Commander, Air Force Nuclear Weapons Center, KAFB:
 - "Right now, I don't think we need testing. But, eventually, we will, because no matter what you do, a 1957 Chevy is not going to drive right in 2030. I don't care how many pieces and parts you replace, you will eventually have to replace that 1957 Chevy – unless you just want it as a historic relic where people can come by and see it." (November 9, 2008)







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• A new Administration focused on eliminating nuclear weapons:

- Secure Loose Nuclear Materials from Terrorists:

- secure all loose nuclear materials in the world within four years
- negotiate a verifiable global ban on the production of new nuclear weapons material

- Strengthen the Nuclear Non-Proliferation Treaty:

 crack down on nuclear proliferation by strengthening the Nuclear Non-Proliferation Treaty

Move Toward a Nuclear Free World:

- set a goal of a world without nuclear weapons, and pursue it
- always maintain a strong deterrent as long as nuclear weapons exist
- stop the development of new nuclear weapons
- work with Russia to take U.S. and Russian ballistic missiles off hair trigger alert
- seek dramatic reductions in U.S. and Russian stockpiles of nuclear weapons and material
- set a goal to expand the U.S.-Russian ban on intermediate-range missiles so that the agreement is global



http://www.whitehouse.gov/agenda/foreign_policy/ (prior to May, 2009)

The New Era – White House Foreign Policy

- Keeping Nuclear Weapons Out of the Hands of Terrorists
 - On April 5, 2009 in Prague, President Obama presented an ambitious strategy to address the international nuclear threat. He proposed measures to: reduce and eventually eliminate existing nuclear arsenals, including negotiations on further nuclear reductions with Russia, ratification of the Comprehensive Test Ban Treaty, and completion of a verified Fissile Material Cutoff Treaty; halt proliferation of nuclear weapons to additional states, and prevent terrorists from acquiring nuclear weapons or materials.
 - We have pledged to work with our partners to achieve the denuclearization of North Korea through the Six-Party process. And we will present a clear choice to Iran to take its rightful place in the community of nations, including its right to peaceful nuclear energy, or continue to refuse to meet its international obligations and fail to seize the opportunity of a positive future.





The New Era – The Prague Speech

- April 5, 2009 the morning after the DPRK missile launch
 - "In a strange turn of history, the threat of global nuclear war has gone down, but the risk of a nuclear attack has gone up."
 - Reaffirms the Administration goal of a world without nuclear weapons
 - Reduce the role of nuclear weapons in U.S. national security strategy
 - Negotiate a new, verifiable Strategic Arms Reduction Treaty with Russia by the end of the year [when the existing one ends]
 - Pursuit of U.S. ratification of the Comprehensive Test Ban Treaty (CTBT).
 - Pursuit of a Fissile Material Cutoff Treaty (FMCT). See <u>http://www.fas.org/nuke/control/fmct/</u> for background information
 - Strengthening the Nonproliferation Treaty (NPT next conference scheduled for 2010]
 - Strengthening international inspections [IAEA]
 - New framework for civil nuclear cooperation including an international fuel bank
 - Consequences for countries breaking the rules
 - Secure all vulnerable nuclear material around the world within four years - establish the Proliferation Security Initiative, and the Global Initiative to Combat Nuclear Terrorism as durable international institutions





http://www.whitehouse.gov/the_press_office/Remarks-By-President-Barack-Obama-In-Prague-As-Delivered/

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The New Era – Comments by Sec. Gates

 "I think this is an important goal for everyone to have in the world, but I think that it's a long road to get there...President Obama is the fourth president that I have worked for who has said publicly he would like to see an end to nuclear weapons and (have) a nuclear weapons-free world. I think that's a laudable objective."



Nuclear Disarmament a "Long Road," Gates Says Monday, May 4, 2009

U.S. President Barack Obama's dream of a world without nuclear weapons is a worthy goal but not one likely to be reached in the near term, Defense Secretary Robert Gates said yesterday.

http://gsn.nti.org/gsn/nw_20090504_9514.php







Five Months into Presidency

· Unimaginable budget deficits, with more to come

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- Negotiation with Russia on new START treaty and missile defense conciliations
- Opening of discussions with Iran, DPRK, Taliban and Syria
- Pursuit of elimination of nuclear weapons Prague speech

- Pursuit of CTBT
- Abandonment of Yucca Mountain Geologic Repository
- Somalia Pirate attack
- Release of "Torture Papers"
- Pakistan instability







Recent Testimony – House Energy & Water

- House Energy and Water Development Appropriations Subcommittee, 3/17/09
 - Tom D'Agostino

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- Vision: "a smaller, safer, more secure and less expensive enterprise that leverages the scientific and technical capabilities of our workforce to meet all of our national security requirements."
- Four Pillars (see next slide)
- Greatest challenge is absence of national consensus on the Nuclear Posture
- We must exercise capabilities to retain critical skills
- Most important resource is people
- Neither workforce or size of facilities scale linearly with size of stockpile
- Cannot continue with 50-year-old Cold War infrastructure
- Richard Garwin
 - Number of nuclear weapons strongly influences the required infrastructure
 - The number of nuclear weapons and the size and structure of the Weapons Complex needs to be done at the National Security Council level, it is not a function of the NNSA, DOE or DoD
 - Most important resource is people
 - Peer review should be formally funded
 - A new design should be undertaken every five years to energize the nuclear laboratories
 - Existing weapons can remain closer to their test pedigree than a replacement weapon
 - A replacement warhead would eventually lead to the need to test
 - Eventually, even current stockpile will need to verified through a test
 - We should wait on CMRR and plutonium facility for an understanding from the National Security Council of the future of nuclear warhead needs





D'Agostino on Complex Transformation

- Four pillars*:
 - Transform the nuclear stockpile through the Stockpile Stewardship program in partnership with the Department of Defense
 - Transform to a modernized, cost-effective national security enterprise to support needed capabilities in our infrastructure.
 - Create an integrated, interdependent enterprise that employs best business practices to maximize efficiency and minimize costs.
 - Advance the science and technology base that is the cornerstone of our nuclear deterrence and remains essential for long-term national security.



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Complex Transformation & Strategic Weapons in the 21st Century http://www.lanl.gov/conferences/sw/papers08.shtml http://www.lanl.gov/conferences/sw/docs/dagostino-SW21-FINAL-31Jan08.pdf

<u>*Note:</u> these are very similar to the four overarching strategies for Complex 2030



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Recent Testimony – House Energy & Water

- House Energy and Water Development Appropriations Subcommittee, 3/17/09
 - Phil Coyle

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- NNSA should revise their Complex Transformation plan to account for new policy direction production workload can be cut in half
- NPR will be influenced by negotiations with Russia Congressional Commission and NPR will form the basis for planning Complex Transformation, it is futile to proceed without that guidance
- Pantex stores more than 14,000 pits...no shortage for reuse or recycling if necessary
- "Adaptive Complex" should be sized for 100 weapons (no tactical weapons are needed)
- The arms control implications of the proposed NNSA Complex Transformation need to be thought through
- Ev Beckner
 - The foundation and future of NNSA resides in the competency of the technical staff they must have challenging work
 - It may be necessary to postpone or re-plan desirable facility acquisitions or improvements
 - Ten major problems to address: 1) NNSA should replan Plutonium Disposition and Conversion Facility (PDCF) at SRP; 2) Defer construction of Uranium Processing Facility (UPF) at Y-12; 3) Re-evaluate strategies and tools for security at sites; 4) Replan production requirements for a smaller stockpile; 5) Reduce fee structure for M&O and reduce oversight; 6) Re-emphasize fusion research and find other funding sources; 7) Naval Reactors and NN should pay for its operations Y-12; 8) Coordinate with Congress to modify Record of Decision for smaller complex; 9) Achieve full autonomy for NNSA; and 10) Put new Tritium Recovery Facility at SRP in cold standby for several years.





Complex Drivers for The Future

- FY10 and FY11 Authorization and Appropriations
 - Administration policy to eliminate nuclear weapons will play a significant role
 - CTBT and START will be key drivers
 - NGO reports will be used as guides
 - New leadership in NNSA and DOE
- Complex Transformation

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- SPEIS in place...some changes being implemented
- Will most likely be stalled until FY10 at the earliest
- Contract Strategy for NNSA Weapons Complex
 - Report due in late April, 2009
 - Future Vision for Labs
- Congressional Commission on Nuclear Posture
 - Report released May 6, 2009
- OMB report on moving NNSA to DoD
 - Due September 30, 2009
 - NGO/Defense Science Board reports will be used as guides
- Nuclear Policy and Nuclear Posture (NPR)
 - Nuclear Policy due September 1, 2009
 - Nuclear Posture due March 1, 2010
- Minot-Barksdale and Taiwan nuclear incidents
 - Report impact
 - Standup of Global Strike Command
 - Quadrennial Defense Review (QDR) Spring 2010
- Nuclear Weapons States Modernization Programs
 - Nuclear Weapons Proliferation (Iran and DPRK)

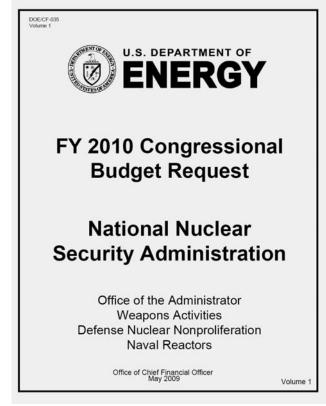






FY10 Budget

- Much of existing budget sustained for now, with some slow down for the CMRR Nuclear Facility (LANL) and UPF (Y-12) - \$6.38B request
 - RRW not funded, but "Advanced Certification" program funded at \$19.4M
 - MOX Fabrication Facility funding moved back into NNSA - \$654M increase
 - No request for LANSCE refurbishment funding
- Second Line of Defense and Megaports get boost in funding (20-30%)
- FY11 Budget (early February, 2010) will be the turning point for NNSA and labs – will be influenced by the Nuclear Policy/Posture reviews and the QDR

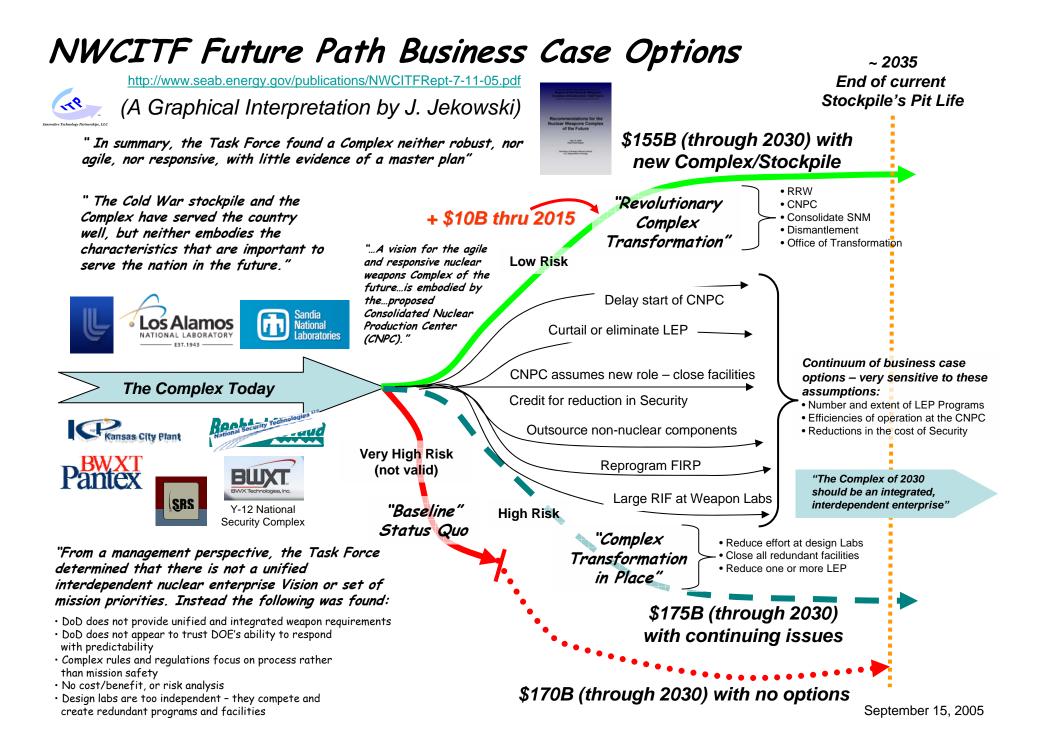


http://www.nnsa.energy.gov/about/nnsa_budget.htm

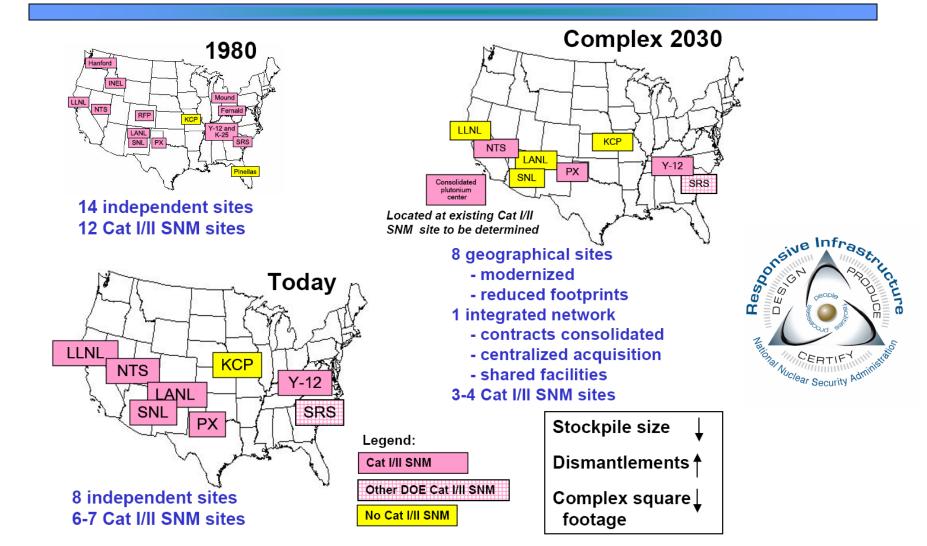
<u>Note:</u> not in NNSA, but an indicator of what the new Administration is capable of doing:

 Yucca Mountain Project effectively killed with significant budget reductions (both FY09 and FY10)





NNSA's Response to NWCITF: Complex 2030*



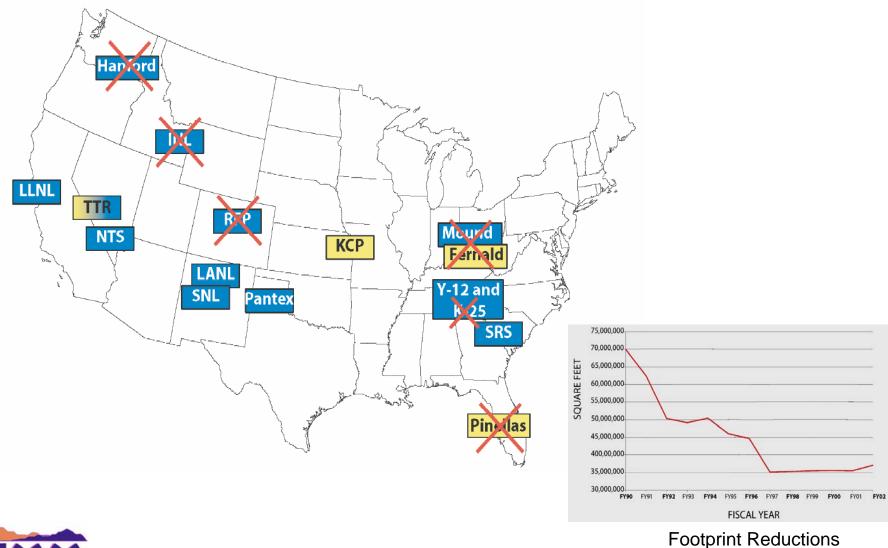


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* Excerpted from "NA-10 All Hands Briefing" by Tom D'Agostino, May 10, 2006



Weapons Complex Site Reductions





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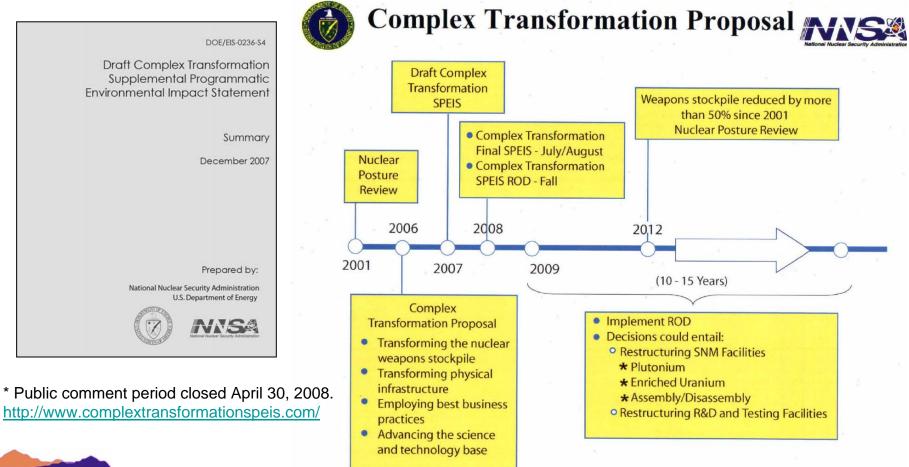


Supplemental PEIS (SPEIS)

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Structured process to seek public input*



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Final SPEIS Issued in October 2008

 Comprehensive documentation of the complete SPEIS process with detailed discussions of each alternative

Final SPEIS

Final Complex Transformation SPEIS

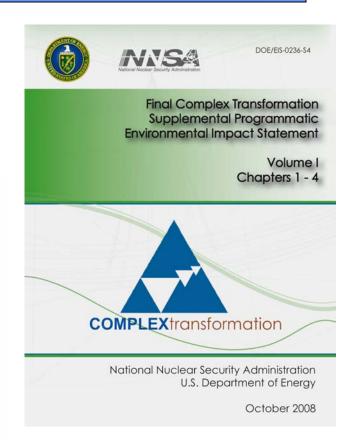
ZNote: All links below go to PDF documents - Click here to download Adobe Acrobat Reader

Dear Interested Party Letter

Summary

Volume I	Volume II		Volume III
Volume I Front Matter and Table of Contents	Volume II Front Matter and Table of Contents		Volume III Front Matter and Table of Contents
Chapter 1	Chapter 5	Appendix A	CRD, Chapter 1
Chapter 2	Chapter 6	Appendix B	CRD, Chapter 2
Chapter 3	Chapter 7	Appendix C	CRD, Chapter 3
Chapter 4	Chapter 8	Appendix D	
	Chapter 9	Appendix E	
	Chapter 10	Appendix F	
	Chapter 11	Appendix G	
	Chapter 12		
	Chapter 13		

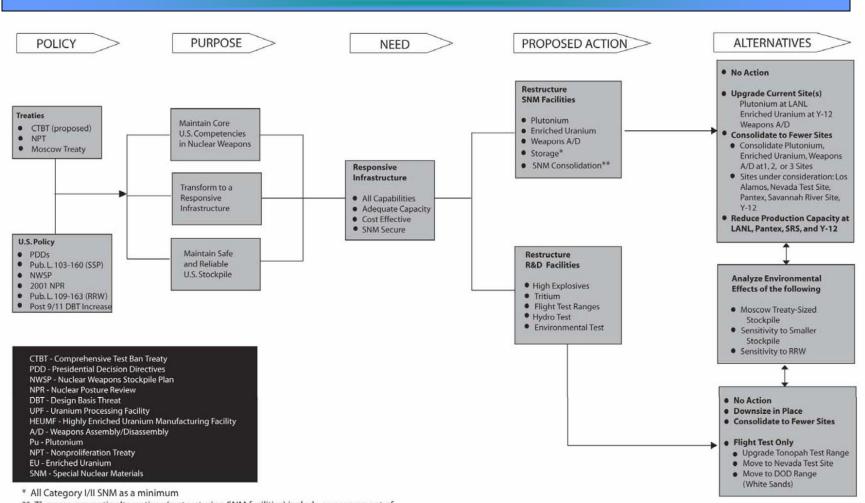
Chapter 14 Chapter 15







Policy Perspective of SSP and Transformation



** The programmatic alternatives (restructuring SNM facilities) include an assessment of consolidating category I/II SNM currently stocked at LLNL and Pantex.



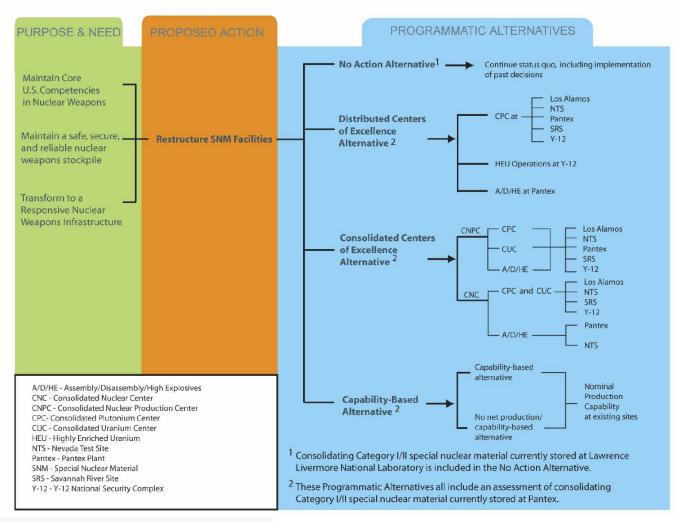
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Volume I, Chapter 2, p. 2-4 http://www.complextransformationspeis.com/project.html



SPEIS Programmatic Alternatives

• Several programmatic alternatives were examined:



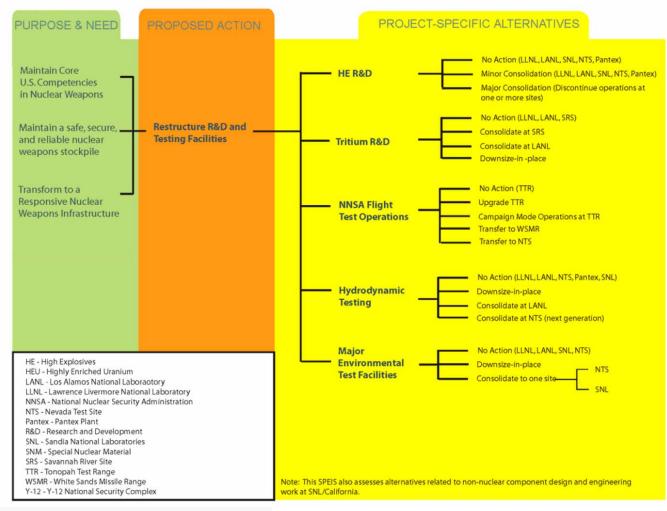


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http://www.complextransformationspeis.com/

SPEIS Project-Specific Alternatives

• Several project-specific alternatives were examined:





http://www.complextransformationspeis.com/

Innovative Technology Partne



- Preferred Alternatives for Restructuring SNM Facilities:
 - Plutonium manufacturing and R&D: Los Alamos would provide a consolidated plutonium research, development, and manufacturing capability within TA-55 enabled by construction and operation of the Chemistry and Metallurgy Research Replacement—Nuclear Facility (CMRR-NF). The CMRR-NF is needed to replace the existing Chemistry and Metallurgy Research (CMR) Facility (a 50-year old facility that has significant safety issues that cannot be addressed in the existing structure)...Until completion of anew Nuclear Posture Review in 2009 or later, the net production at Los Alamos would be limited to a maximum of 20 pits per year...
 - Uranium manufacturing and R&D: Y-12 would continue as the uranium center producing components and canned subassemblies, and conducting surveillance and dismantlement. NNSA has completed construction of the HEUMF and will consolidate HEU storage in that facility. NNSA would build a Uranium Processing Facility (UPF) at Y-12 in order to provide a smaller and modern highly-enriched uranium production capability to replace existing 50year old facilities...
 - Assembly/disassembly/high explosives production and manufacturing: Pantex would remain the Assembly/Disassembly/High Explosives production and manufacturing center. NNSA would consolidate non-destructive surveillance operations at Pantex.
 - Consolidation of Category I/II SNM: NNSA would continue to transfer Category I/II SNM from LLNL under the No Action Alternative and phase out Category I/II operations at LLNL Superblock by the end of 2012. NNSA would consolidate Category I/II SNM at Pantex within Zone 12, and close Zone 4.



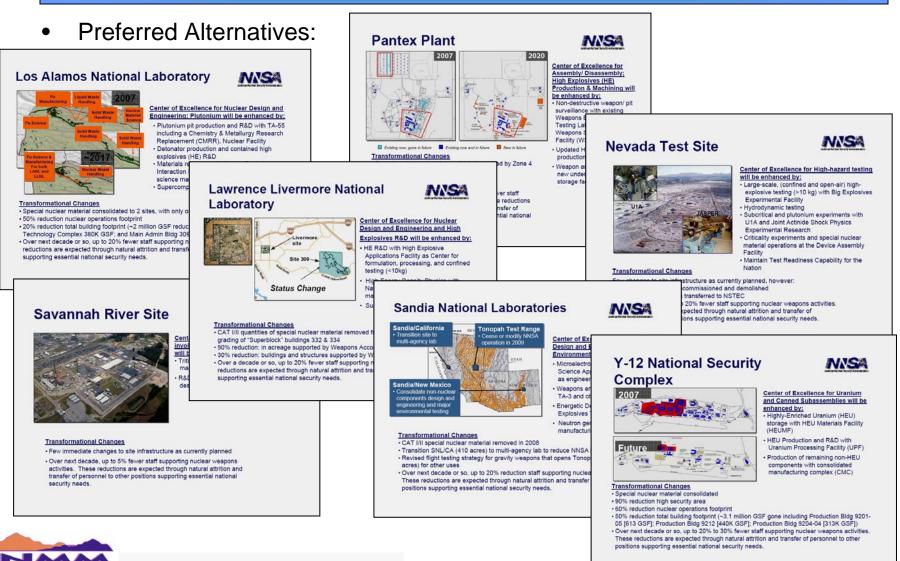
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Volume I, Chapter 3, p2. 3-152-154 http://www.complextransformationspeis.com/project.html



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http://www.complextransformationspeis.com/

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- Preferred Alternatives for Restructuring R&D and Testing Facilities:
 - HE R&D. NNSA would reduce the footprint of its HE production and R&D related to nuclear weapons; and reduce the number of firing sites. ..NNSA would consolidate weapons HE R&D and testing within the following locations..
 - Pantex would remain the HE production (formulation, processing, and testing) and machining center...HE experiments up to 22 kg HE would remain at Pantex;
 - NTS would remain the testing center for large quantities of HE (greater than 10 kg);
 - LLNL would be the HE R&D center for formulation, processing, and testing (processing capability to handle up to 15 kg and testing less than 10 kg) HE at the High Explosives Applications Facility (HEAF); formulation and processing of HE would be conducted either at a new HEAF Annex built adjacent to HEAF, or at existing Site 300 facilities...
 - SNL/NM would remain the HE R&D center for non-nuclear explosive package components (less than 1 kg of HE) at the Explosive Components Facility (ECF); and
 - LANL would produce war reserve main charge detonators, conduct HE R&D experimentation and support activities, and move towards contained HE R&D experimentation.
 - Each site would maintain one weapons program open-burn and one open-detonation area for safety and treatment purposes.
 - Tritium R&D. NNSA would consolidate tritium R&D at SRS. SRS would remain the site for tritium supply management and provide R&D support... Neutron generator target loading at SNL/NM and production of National Ignition Facility targets at LLNL, which involve small quantities of tritium, would continue... NNSA would move bulk quantities of tritium from LANL to SRS by 2009; and remove tritium materials above the 30 gram level from the Weapons Engineering Tritium Facility (WETF) at LANL by 2014.



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- Preferred Alternatives for Restructuring R&D and Testing Facilities:
 - NNSA flight test operations. Campaign Mode Operation of Tonopah Test Range (TTR)...NNSA would reduce the footprint of TTR, upgrade equipment with mobile capability, and operate in campaign mode. NNSA expects it would not use Category I/II SNM in future flight tests.
 - Major Hydrodynamic Testing. By the end of fiscal year 2008, NNSA would contain the hydrodynamic testing (consisting of Integrated Weapons Experiments and Focused Experiments) at LLNL at the Contained Firing Facility (CFF) and at LANL at the Dual-Axis Radiographic Hydrodynamic Test (DARHT) facility... In addition:
 - Hydrotesting at LLNL Site 300 would be consolidated to a smaller footprint by 2015.
 - The goal is to minimize open-air testing at LANL. Open-air hydrotests at LANL's
 - DARHT, excluding SNM, would only occur if needed to meet national security requirements.
 - NNSA would allow open-air firing at LANL TA-36 until adequate radiographic capabilities and associated supporting infrastructure are available for open-air firing at NTS.
 - Major Environmental Test Facilities. NNSA would consolidate major environmental testing at SNL/NM and, infrequently conduct operations requiring Category I/II SNM in security campaign mode there. NNSA would close LANL's and LLNL's major environmental testing facilities by 2010... NNSA would move environmental testing of nuclear explosive packages and other functions currently performed in LLNL Buildings 334 and 834 to Pantex by 2012.
 - Sandia National Laboratories, California Weapons Support Functions. NNSA would continue operations under the No Action Alternative....



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SPEIS Consolidation Plans

• Consolidating to Interdependent Centers:

PRESENT POTPRINT: > 35 MILLION SQUARE FEET FOR WEAPONS WORK FUTURE CONSOLIDATED AND FOUTPRINT: > 26 MILLION SQUARE FEET FOR WEAPONS WORK Image: Construction of the construction of	SOLIDATIN		PENDENT CENTERS		
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Federal Register/Vol. 73, No. 245/Friday, December 19, 2006

Records of Decision

- Signed December 16, 2008, and published in the Federal Register on December 19, 2008:
 - Provides final decisions on all planned changes to Weapons Complex

Complex Transformation SPEIS		
Home News Project Information Links Contact L	CRARTINET OF DERIVIT Record of Sections for the Complex Programming Experimental Programming Environment Institu- Protocols, Institution, and the Assessment Phatoscha, Institution, and the Assessment of the Complex Institution of the Institu- tion of the Institution of the Institution Assessments and the Institution of the Institu- Ion of the Institution Online Institution of the Institution Online Institution of the Institution Online Institution of the Institution Online Institution of Institution Online	and other factors. Including cost, the dark and severy traces. To result, and the severy traces. To result, and the severy traces. The severy severy severy severy severy dark more than the severy severy severy severy more than the severy severy severy severy severy severy the severy severy severy severy severy severy severy severy the severy severy severy severy severy severy severy severy severy to during severy severy severy severy severy severy the severy severy severy severy severy severy severy severy severy severy severy severy severy severy severy severy the severy seve
December 19, 2008 "Record of Decision for the Complex Transformation Supplemental Programmatic Environmental Impact Statement—Operations Involving Plutonium, Uranium, and the Assembly and Disassembly of Nuclear Weapons"	Seesardy Administration (NCS), a separative graving and games within the investigation of the second second second in the second second second second second the second second second second second the second second second second second the second secon	 matrix (BQ)) comparison (in the DB)
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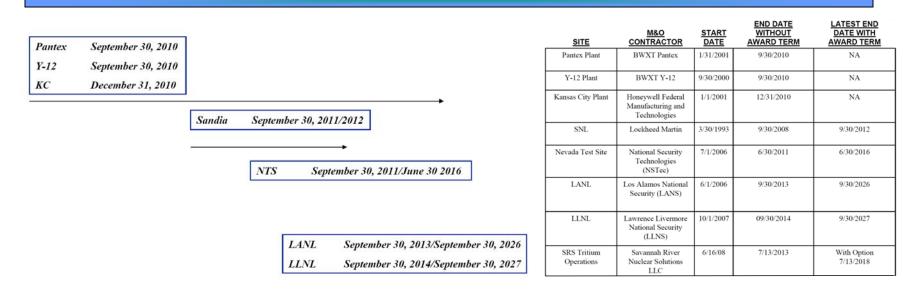


Records of Decision

- No major changes from recommendation in SPEIS
 - Provides final decisions on all planned changes to facilities supporting NNSA activities, including:
 - Consolidate high-security special nuclear material to five NNSA sites and at fewer locations within these sites will continue;
 - Plutonium operations will be consolidated at NNSA's Los Alamos National Laboratory in New Mexico;
 - Uranium operations will be consolidated at NNSA's Y-12 National Security Complex in Tennessee;
 - Assembly and disassembly of nuclear weapons and high explosives production and manufacturing will remain at NNSA's Pantex Plant in Texas;
 - Tritium operations will be consolidated at the Savannah River Site in South Carolina;
 - Flight testing operations will continue at Tonopah Test Range in Nevada in a more limited scope that relies on a reduced footprint for NNSA operations.
 - Major environmental test facilities, where weapon components are exposed to different temperatures and mechanical stresses typical of the different types of environments they would be exposed to, will be consolidated at Sandia National Laboratories in New Mexico.







Objectives:

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- 1. More uniform program execution with improved integration of resources and priorities
- Increased standardization of technical processes and application of best practices to improve process results and capabilities including safety and security
- 3. Improved inter-site coordination, cooperation, information sharing and technical integration
- 4. Improved workforce planning, maintenance of critical skills, and human capital management
- 5. Reduced cost and improved performance through streamlining of the organization with reduction of management layers, elimination of unnecessary redundancies, outsourcing appropriate activities, and integration and leveraging of technical and business expertise at multiple sites
- 6. Increased contractor authority and accountability in accomplishing the NNSA mission
- 7. Sustained Competition
- 8. Determine requirements for having transparency and consistency of data reporting for financial information
- 9. Feasibility of Implementation for NNSA
- 10. Optimization of return on investment at the NNSA enterprise level



http://www.doeal.gov/MOContracts/



Options Analyzed

- 1. Status Quo Options for Y-12, Pantex, Kansas City, SNL and LANL Production
- 2. Y-12 and Pantex Option (nuclear production) (RFI A-1)
- 3. Y-I2 and Pantex to include SR Tritium (RFI B-1)
- 4. Y-12 and Pantex to include SR Tritium and LANL Nuclear Production (as time allows) (RFI B-2*)
- 5. Y-12 and Pantex to include LANL Production
- 6. Kansas City and SR Tritium
- 7. Kansas City and SNL Production (RFI B-4*)
- 8. Kansas City and SNL Production and SR Tritium (non-nuclear production) (RFI B-3)
- 9. Functional Areas-Down Select (RFI D*) Functional areas are Construction Management, Information Technology, Security

Notes: SR Tritium added to KC production and SNL production, Full SNL scope not analyzed. * Options 4, 7, and 9 above were RFI recommendations

September 30, 2010 Pantex **Options NOT Analyzed** Y-12 September 30, 2010 December 31, 2010 1.Kansas City and Full SNL scope Option (RFI A-2) Sandia September 30, 2011/2012 2. Any inclusion of NTS or LLNL Work 3. Any LANL activities not included in production September 30, 2011/June 30 2016 NTS 4. The COCO Option (RFI C-1 and C-2) LANL September 30, 2013/September 30, 2026 LLNL September 30, 2014/September 30, 2027



http://www.doeal.gov/MOContracts/readingroom.aspx

- Request for Information released September 10, 2007*
 - Solicit input from the public

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 "We are open to consideration of a facilities-based approach (perhaps combining two or more sites under a single contract) and/or a function-based approach (providing to some or all locations such capabilities as purchasing, financial management, information technology services and management, etc.)."

M & O Contract Recompet	te Site Home Page	≞ ♥!%*≊< ∎□[
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Announcements FedBit2Opps Synopsis Request for Information Press Releases Questions & Answers Coming Soon References Reseding Room Contracts	Contract Strategy for the NNSA Nuclear Weapons Complex Welcome to the National Nuclear Security Administration (NNSA) Service Center's web site for the Contract Strategy for the NNSA Nuclear Weapons Complex. The NNSA is planning to develop and implement a contracting strategy for its Management and Operating (M&O) Contracts that will promote more effective and efficient technical and business operations in support of a more responsive and affordable Nuclear Weapons Complex (NWC). NNSA plans to release a Request for Information (RFI) to initiate discussions on potential contracting opticities and contract provisions that would achieve NNSA objectives while promoting vigorous competition for new contracts through elimination of barriers to competition. The objective is to create a much more responsive and affordable NWC. Strategies could include consolidation of two or more M&O contracts, transfer of discrete work scope from one M&O contract to another, and breakout of functions for special focus from existing M&O contracts into new NNSA non-M&O prime contract(s). NNSA will use this website as a means to exchange information with industry and other interested parties including other Federal agencies with similar contracting objectives through written comments and one-on-one meetings for this acquisition strategy.	Get Site Updates by E-mail You can be notified as soon as pages change on this site. If you'd like to always know when new information is posted, you can <u>subscribe norw</u> to receive NVC Production Strategy Website Change Notices. You can <u>unsubscribe</u> at anytime.
	Please direct questions concerning the content of this web site to <u>NWC Contract Strategy Help</u> .	
hther Links General Links Subscribe Unsubscribe	New Releases • March 10, 2009 Recent briefing has been posted to this website and can be viewed under the "Reading Room" link. • January 30, 2009 Recent briefings and other new information have been posted to this website and can be viewed under the "Reading Room" link. • October 23, 2008 An Acquisition Strategy Team (AST) was formed in September 2008 to develop an acquisition strategy that drives a fully integrated and interdependent enterprise enhances the strategy. The AST lead and the NNSA Deputy Administrator for Defense Programs provided briefings at the Weapons Complex Contract Strategy report and the related inc RFH and RFH2, and is building upon that information to develop the strategy. The AST lead and the NNSA Deputy Administrator for Defense Programs provided briefings at the Weapons Complex Monitor Decision Makers Forum on October 16, 2 briefings are now posted on this website in the Reading Room. January 23, 2008 A Press Releases. January 23, 2008 A Press Releases on January 23, 2008 and may be viewed on this website under Announcements/Request for Information and on FedBizOpps. January 14, 2008 The Draft Complex Transformation Supplemental Programmatic Environmental Impact Statement (SPEIS) was issued in the Federal Register on January 11, 2008, and shown within this website under General Links. November 30, 2007 RF+2 will not be released before January 2008. We plan to release it soon after the approval of the Draft Complex Transformation Supplemental Programmatic Environmental Programmatic Environmental P	lustry responses that resulted from 008 at Amelia Island, Florida. These riewed on this website under may be viewed at the website
	Clicking on the NNSA logo at the top of each page will return you to this Home Page.	
	Context Information/NNSA Service Center, P.O. Box 5400, Albuquerque, NM 87185-5400 • Please call (505) 845-6202 for assistance.	



http://www.doeal.gov/MOContracts/Default.aspx



- Original Request for Information September 10, 2007
 - "The NNSA is planning to develop and implement a contracting strategy for its Management and Operating (M&O) Contracts that will promote more effective and efficient technical and business operations in support of a more responsive and affordable Nuclear Weapons Complex (NWC)... The objective is to create a much more responsive and affordable NWC. Strategies could include consolidation of two or more M&O contracts, transfer of discrete work scope from one M&O contract to another, and breakout of functions for special focus from existing M&O contracts into new NNSA non-M&O prime contract(s).
- Second Request for Information was issued January 23, 2008
- Subsequently an Acquisition Strategy Team (AST) was formed in September 2008 to develop an acquisition strategy that drives a fully integrated and interdependent enterprise enhances mission performance, reduces costs, strengthens partnerships, and improves stakeholder confidence. The AST is utilizing the Nuclear Weapons Complex Contract Strategy report and the related industry responses that resulted from RFI-1 and RFI-2, and is building upon that information to develop the strategy.
- The AST lead is Ms. Patty Wagner (Sandia Site Office Manager, on special assignment to this effort)
- Release is imminent, but not expected to contain a specific approach instead will offer options

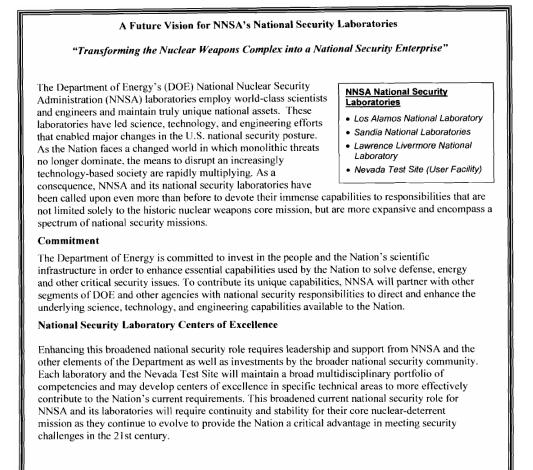


http://www.doeal.gov/MOContracts/



DOE/NNSA on The Future Vision for Labs

- Congressional Testimony by Lab Directors and "Media Roundtable" in June, 2008
 - Reaffirms Work for Others (WFO) mission for Labs and NTS
 - Establishes "Future Vision" for National Security Laboratories



Samuel & Dodwan

19 June 08





D'Agostino on The Future Vision

- "To respond to the evolving 21st century global security threats, NNSA will bring our science, technology and engineering enterprise to bear on solving large, urgent national security challenges."
 - Supporting war fighter needs in Iraq with IED modeling and analysis;
 - Assisting in the safe recovery and securing of a potential radiological device or a lost or stolen U.S. nuclear weapon;
 - Helping identify, among other things, the source of a nuclear device, its effects, and the persons or groups responsible using technical nuclear forensics;
 - Developing and deploying integrated systems for countering aerosolized bioterrorist releases and bio-decontamination technologies; and
 - Developing and deploying portal detector technology to prevent smuggling of illicit nuclear materials.



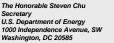


Some Hope?

 Recent letter to Secretary Chu from Senator Udall asking for a recommitment to the future vision:

"On the heels of this statement, several Strategic Partnership Agreements (SPA's) between NNSA and other agencies have either been signed or are currently under negotiation. The SPA's represent in real terms the early realization of the vision elucidated in the statement signed last year. However, this simply marks the beginning. In order to allow other federal agencies to benefit from the expertise and capabilities developed at the NNSA labs, I believe additional resources and commitment should be devoted to expanding the mission in general, and as part of that effort, specifically to the vision statement and agreements between NNSA and other agencies.

With that in mind, I respectfully urge you to compile a similar statement and lend your support to the establishment of additional SPA's. By doing so, you will be signaling that these national labs must continue to serve our nation, and must do so in a multitude of disciplines. It is quite clear that each of these labs has recognized the need to diversify their missions, and I firmly believe that we should encourage that diversification, otherwise we risk losing many of the scientists and much of the research that is so crucial and to critical for our national interests."



Dear Secretary Chu:

Congratulations again on your appointment and confirmation as Secretary of the U.S. Department of Energy (DOE). Our nation is in the midst of an energy crisis that requires substantial attention, and I am certain that you bring the necessary expertise, leadership and ambition that will serve President Obama and the nation well.

As you know, the National Nuclear Security Administration (NNSA) within the DOE provides not only surety for our nuclear arsenal, but acts as one of the strongest scientific research and development engines in the nation. Yet, while our laboratories have continued to support a broad national security objective beyond the core mission of the Stockpile Stewardship Program (SSP), almost all activities of the NNSA are supported fundamentally by a shrinking budget of that core mission. This has led to wide concern that the budget and mission constraints the NNSA could lead to its being unable to provide the very necessary capabilities that are so critical to our nation.

In response to this growing concern, last year Energy Secretary Samuel Bodman, DOE Undersecretary for Nuclear Security Thomas D'Agostino, DOE Undersecretary for Science Roy Orbach, and the heads of four NNSA facilities (please see the attached letter) signed a four page "Future Vision" statement outlining a path forward for the NNSA labs to move towards a more encompassing national security mission. The purpose was not only to describe an evolving role of the labs, but also to foster a new environment of cooperation between the labs and other agencies.

"The scientific capabilities and infrastructure developed for the nuclear weapons mission have been utilized by many national security agencies," the letter states, "and are recognized as essential to fulfilling their responsibilities. Maintenance of a strong infrastructure – both the workforce and the facilities – will require joint support from these national security agencies, as well as careful planning and budgeting by NNSA and its national laboratories, to enable this broader national security mission."

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Several studies are currently being conducted related to the NNSA labs, from the recently released Stimson Report (which encouraged mission diversity and broad investment in the labs by other agencies), to the soon to be released report from the Congressional Commission on Strategic Posture of the United States, to the upcoming Nuclear Posture Review. The confluence of these studies marks what you already know; our national labs are at a crossroads. As such, I believe this represents an historic opportunity to ensure our labs continue to play a critical role in securing our nation from threats not imagined at their birth.

The signatories to last year's statement underscored how important it was for these labs to transform into national security labs, stating "[we] will advocate for and enable a broader national-security role for NNSA and its laboratories...The nation's ability to respond to as yet unknown challenging national security problems in the future demands nothing less." I wholeheartedly echo this sentiment and respectfully ask that you consider lending your crucial voice in support of this effort.

I welcome the opportunity to work with you on this and the many other challenges facing our nation. Please do not hesitate to contact me to discuss further.

Sincerely, Tom Udall United States Senator





Toward a Nuclear Free World

- Op-Ed in Wall St. Journal January 15, 2008
 - Authored by George Schultz, William Perry, Henry Kissinger, and Sam Nunn
 - Followed Op-Ed in January 2007 entitled "A World Free of Nuclear Weapons" that was supported by a subsequent Op-Ed from Mikhail Gorbachev entitled "The Nuclear Threat"
 - Discusses the "nuclear tipping point"
 - Makes several recommendations toward a nuclear-weapons free world



January 15, 2008

OPINION

Toward a Nuclear-Free World

By GEORGE P. SHULTZ, WILLIAM J. PERRY, HENRY A. KISSINGER and SAM NUNN January 15, 2008

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The accelerating spread of nuclear weapons, nuclear know-how and nuclear material has brought us to a nuclear tipping point. We face a very real possibility that the deadliest weapons ever invented could fall into dangerous hands.

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The steps we are taking now to address these threats are not

adequate to the danger. With nuclear weapons more widely available, deterrence is decreasingly effective and increasingly hazardous.

One year ago, in an essay in this paper, we called for a global effort to reduce reliance on nuclear weapons, to prevent their spread into potentially dangerous hands, and ultimately to end them as a threat to the world. The interest, momentum and growing political space that has been created to address these issues over the past year has been extraordinary, with strong positive responses from people all over the world.

Mikhail Gorbachev wrote in January 2007 that, as someone who signed the first treaties on real reductions in nuclear weapons, he thought it his duty to support our call for urgent action: "It is becoming clearer that nuclear weapons are no longer a means of achieving security; in fact, with every passing year they make our security more precarious."

In June, the United Kingdom's foreign secretary, Margaret Beckett, signaled her government's support, stating: "What we need is both a vision -- a scenario for a world free of nuclear weapons - and action -- progressive steps to reduce warhead numbers and to limit the role of nuclear weapons in security policy. These two strands are separate but they are mutually reinforcing. Both are necessary, but at the moment too weak."

We have also been encouraged by additional indications of general support for this project from other former U.S. officials with extensive experience as secretaries of state and defense and national security advisors. These include: Madeleine Albright, Richard V. Allen, James A. Baker III, Samuel R. Berger, Zbigniew Brzezinski, Frank Carlucci, Warren Christopher, William Cohen, Lawrence Eagleburger, Melvin Laird, Anthony Lake, Robert McFarlane, Robert McNamara and Colin Powell.

Inspired by this reaction, in October 2007, we convened veterans of the past six administrations, along with a number of other experts on nuclear issues, for a conference at Stanford University's Hoover Institution. There was general agreement about the importance of the vision of a world free of nuclear weapons as a guide to our thinking about nuclear policies, and about the





U.S. Strategic Posture Commission

- Established by House Armed Services (H.R. 1585, Sec. 1062)
 - Tasked to submit a report by December 1, 2008 that includes a detailed review of nuclear weapons policy and strategy and an examination of non-nuclear alternatives to nuclear weapons



March 25, 2008 - CISAC, FSI Stanford News CISAC's Perry to head congressional commission examining nation's strategic weapons posture

Former U.S. Defense Secretary **William Perry**, co-director of CISAC's Preventive Defense Project, has been named chair of a Congressional bipartisan commission nominated March 19 to examine America's strategic military posture, including the "appropriate role" of nuclear weapons. The 12-member commission also will assess the role of nonproliferation programs and missile defenses in U.S. strategic policies. The group is expected to present a set of recommendations on future U.S. strategic policies to Congress and President George W. Bush by Dec. 1, 2008.

"A sound strategic posture and a healthy nuclear complex are vital to America's national policy," said Duncan Hunter, (R-CA), ranking member of the Strategic Forces Subcommittee. "We look forward to receiving [the commission's] recommendations on how we can improve our strategic posture and ensure the

longterm sustainability of our nuclear complex."



Subcommittee Chairman Ellen Tauscher, (D-CA), said the commission is needed, "to get the nation's nuclear policy back on track. For too long we have missed the forest for the trees, and I am hopeful this commission will encourage a vital national discussion that is both open and transparent about the appropriate role of nuclear weapons in our national security."

Strategic Posture Commission Members

The members nominated to the commission by the House Armed Services Committee are:

- William Perry, commission chairman, former Secretary of Defense;
- John Foster, director emeritus of Lawrence Livermore National Laboratory;
- Lee Hamilton, former Congressman and vice chair of the 9/11 Commission;
- Keith Payne, CEO and president, National Institute for Public Policy;
- Ellen Williams, University of Maryland distinguished professor;
- Harry Cartland, former physicist, Lawrence Livermore National Laboratory.

The members nominated by the Senate Armed Services Committee include:

- James Schlesinger, commission vice chairman, former Secretary of Energy and Secretary of Defense;
- John Glenn, former senator and NASA astronaut;
- Fred Ikle, former director, Arms Control and Disarmament Agency;
- Morton Halperin, former deputy assistant secretary of defense for International Security Affairs;
- James Woolsey, former director, Central Intelligence Agency;
- Bruce Tarter, former director, Lawrence Livermore National Laboratory.







- Interim Report issued December 11, 2008
 - Funding and other issues delayed process
 - "The smaller the size of the stockpile, the more important it will be to have confidence in its reliability."
 - 19 Interim Findings
 - Reflects a carefully considered set of external drivers within the context of different agendas
 - It is possible to move toward a goal of eliminating nuclear weapons while maintaining and ever increasing our security
 - Final Report was expected late April, 2009 issued on May 6, 2009 during Congressional Testimony



http://armed-services.senate.gov/Webcasts/2009/May/05-07-09Webcast.htm http://armedservices.edgeboss.net/wmedia/armedservices/fc2050609.wvx http://www.usip.org/strategic_posture/final.html



Strategic Posture Commission Report

- The Commission generally supports the Obama Administration's policies, but was split on some key issues such as ratification of the CTBT
- The Commission:
 - Recommends the separation of the NNSA from DOE with respect to funding and regulations
 - The arrangement would be that of an independent agency, much like FERC. The Secretary could comment on, but not disapprove of the NNSA budget request.
 - Provided unanimous support for strengthening the Labs, making them "National Security" rather than "Nuclear Weapons" Labs, and giving them greater freedom to do work – NRC would replace DNFSB
 - Favored creating an "ownership" of the labs by DOE, DoD, DHS and the DNI by making the health of the Labs a joint responsibility of those agencies and encouraged:
 - Providing direct access to the Intelligence Community
 - Continuing to apply common sense, cost-effective solutions to security posture, including the implementation of the new graded security protection strategy
 - Strengthening the intellectual infrastructure (human resource) at the Labs
 - Favored the completion of the CMRR first over the Y-12 UPF if funding was an issue

America's Strategic Posture

The Final Report of the Congressional Commission on the Strategic Posture of the United States

Advance Copy

William J. Perry, Chairman James R. Schlesinger, Vice-Chairman

Harry Cartland	Fred Ikle	
John Foster	Keith Payne	
John Glenn	Bruce Tarter	
Morton Halperin	Ellen Williams	
Lee Hamilton	James Woolsey	

"As we take each new weapon into its life extension program, we should be open to a variety of approaches on how it can be done. If it can be done through the life extension techniques of the past, it should be done that way. If it involves mining other weapons for components, we should do it that way. If it involves a new design, we should be open to that also. The decision should be made on technical necessity." – *William Perry*





Strategic Posture Commission Report

• Additional findings/recommendations:

INMM

- The U.S. should reduce nuclear dangers that balances deterrence, arms control, and nonproliferation. Nuclear terrorism against the U.S. and other nations is a very serious threat. This requires a U.S. led international response.
- The surest way to prevent nuclear terrorism is to deny terrorist acquisition of nuclear weapons or fissile materials. An accelerated campaign to close or secure the world's most vulnerable nuclear sites should be a top national priority.
- Substantial stockpile reductions would need to be done bilaterally with the Russians, and with other nuclear powers. It is essential that we pursue cooperative, binding measures with others.
- Pursue a step-by-step approach with Russia on arms control, ensuring a successor to the START I before the end of 2009.
- The United States could maintain its security while reducing its reliance on nuclear weapons.
- Guarantees to its allies and the NPT regime is integral to the achieving U.S. nonproliferation objectives.
- The U.S. should maintain talks on denuclearization of the entire Korean peninsula, and do
 nothing that seems to accept North Korea's status as a nuclear power.
- Negotiation and entry into force of FMCT would be a valuable addition to the global nonproliferation regime.
- The United States requires a stockpile of nuclear weapons that is safe, secure, reliable, and credible.
- The United States should develop and, where appropriate, deploy missile defenses against regional missile threats...defenses against these limited threats should avoid giving Russia or China reason to increase their strategic threats to the United States or its allies.
- The United States must maintain the six-decade tradition of non-use of nuclear weapons.





OMB: Examine NNSA Move to DoD

- OMB request to DOE and DoD to examine the possibility of moving the U.S. Nuclear Complex into the Defense Department (Feb. 2009)
 - Would reverse over 60 years of "civilian" control of nuclear design and manufacturing
 - Would 'fit" within philosophy of allowing DOE to concentrate on Energy research and development (aligned with new Secretary of Energy's interests)
 - Some suggest could send the wrong message to the global community – the militarization of our stockpile from design to deployment
 - Strongly opposed by New Mexico Congressional Delegation

Military Control Of Labs Studied

Move Would End

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N.M. Delegation

Criticizes Possible

Move to Pentagor

Change of NNSA Control Opposed

By JOHN FLECK Journal Staff Writer

Members of New Mexico's congressional delegation and a group of prominent U.S. senators sent letters Wednesday criticizing a proposed study of moving the U.S. nuclear weapons laboratories to the jurisdiction of the Defense Department.

In a memo obtained by the **Journal** last month, the Obama administration's Office of Management and Budget called for a study of the possibility of moving the U.S. nuclear weapons design and manufacturing program, including Los Alamos and Sandia labs, out of the Department of Energy and into the Defense Department.

Department. One of the letters, from Sen. Jeff Bingaman, D-N.M., and four other senators, expressed "our firm opposition to the transfer of the NNSA to the Department of Defense."

It was signed by Bingan heart of Perise: It was signed by Bingaman, chairman of the Senate Energy and Natural Resources Committee, as well as Bingaman's Republican counterpart on the Energy and Natural Resources Committee and the leaders of two other key Senate committees with jurisdiction over the nuclear weapons program.

"Shifting to military control could be a dangerous precedent," said a second letter from the New Mexico congressional delegation.



National atories Los Alamos National Laborat ES:11:07 EMPLOYES:11:23 F5:23 billion TOTAL BUDGET: S2.1 MILL Million NUCLEAR WEAPONS BUDGET: NUCLEAR WEAPONS BUDGET:





Paul Robinson on the Future of the Complex*

- "Establish at a national level the purpose and sizing of the US arsenal of nuclear weaponsappropriate to the threats we and our allies most likely face going forward
- Reorganize the management structure of the complex to have a nuclear weapons enterprise that is coherently managed and budgeted for
- The fact has been well established that the Federal government is incapable of "managing the advancement of science."

"My deeply held conviction is that the GOCO model has deteriorated so far, that it must now either be eliminated or drastically rejuvenated (with a new agency and a "clean sheet of paper")"





Paul Robinson on the Future of the Complex*

"Personally, and after many years of believing that it was important to keep the nuclear weapons design, development, and production separate from the Defense Department, I have now reached the point that I believe it is worth considering removing the weapons responsibilities from **DOE and placing it as a new agency within the DoD.** The presence of a uniformed military could provide a continuity that has been lacking as different administrations came and went. The nation's nuclear deterrent has only suffered from these short-term upheavals in what must be a long-term commitment."





AAAS Report Highlights

- A very complex report April 2007
 - "The independent designs for RRW could lead to a final design that is certifiable without a nuclear test"
 - "The full engagement of the DoD is necessary to set the conditions under which an RRW can be introduced into the arsenal"
 - "RRW and Complex 2030 will have a number of international impacts"
 - "There are no Presidential or Cabinet-level statements...that argue the case for the RRW"
 - "Only Presidential leadership can create the bipartisan program necessary to transform the nuclear weapons complex on a path that may take well over two decades."

The United States Nuclear Weapons Program The Role of the Reliable Replacement Warhead

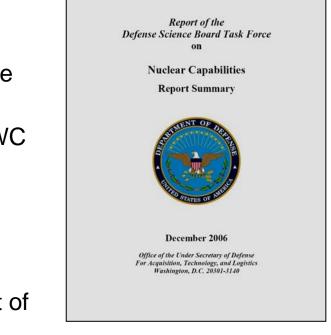






Defense Science Board Report - 2006

- Three Key Issues identified:
 - Need for a national consensus on the nature and the need for and role of nuclear weapons
 - The Nuclear Weapons Complex and the approach to sustaining a reliable, safe, secure and credible set of nuclear weapons
 - The organization and management of the NWC enterprise – DOE and DoD
- Recommendations suggested for:
 - Assessing progress in developing integrated strike capabilities in the New Triad
 - The structure, organization and management of the Nuclear Weapons Enterprise
 - Sustaining the Nuclear Weapons Stockpile



http://www.acq.osd.mil/dsb/reports/2006-12-Nuclear_Capabilities.pdf





http://www.acg.osd.mil/dsb/reports/2006-12-Nuclear Capabilities.pdf

Report of the

Defense Science Board Task Force

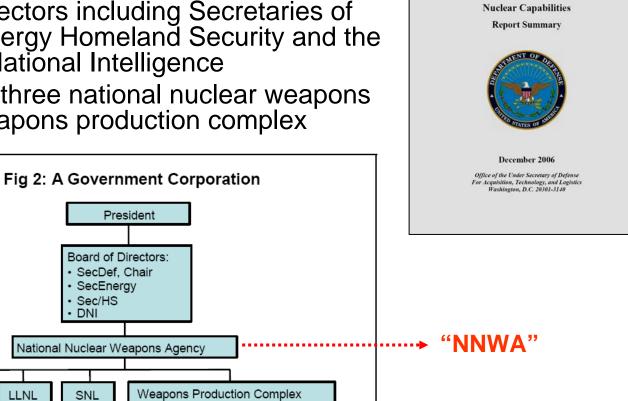
Defense Science Board Report - 2006

Proposed "government corporate" structure

ANL

I I NI

- Create <u>National Nuclear Weapons Agency</u> with administrator reporting to President
- Board of Directors including Secretaries of Defense, Energy Homeland Security and the Director of National Intelligence
- Core will be three national nuclear weapons labs and weapons production complex









AAAS 2008 Report

- Issued after the election to inform the new Administration
- Collaboration among the American Physical Society (APS), The American Association for the Advancement of Science (AAAS) and the Center for Strategic and International Studies (CSIS)
- Addresses three nuclear pressing issues:
 - Preventing the spread of nuclear weapons
 - Securing and reducing global inventories
 - Reversing Russia's apparent increasing reliance on nuclear weapons
- Proposed basis for a new policy:
 - The U.S. must re-establish its global leadership in nuclear nonproliferation, arms control and disarmament matters
 - The U.S. must ensure a credible nuclear deterrent for as long as is needed through steps that include continuing to refurbish and update its nuclear stockpile and infrastructure as necessary without creating any new nuclear weapons capabilities







Stimson Report

- Updated perspective similar to DSB report – but from an NGO (nongovernmental organization)
- Stimson Center, NTI, Pugwash and other similar groups have the "ear" of the Administration

오 stimson LEVERAGING SCIENCE FOR SECURITY: A STRATEGY FOR THE NUCLEAR WEAPONS LABORATORIES IN THE 21ST CENTURY Task Force on Leveraging the Scientific and Technological Capabilities of the NNSA National Laboratories for 21st Century National Security Frances Fragos Townsend, Co-Chair Lt. Gen. (Ret.) Donald Kerrick, Co-Chair Elizabeth Turpen, Ph.D., Project Director March 2009

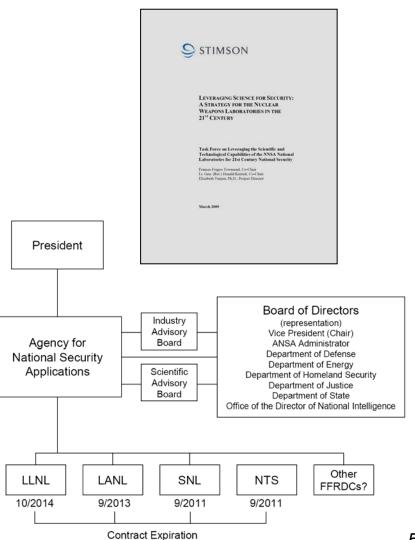




Stimson Report

MMM

- Recommends creating a fully independent agency for national security science and technology – the Agency for National Security Applications (ANSA)
 - Reports to the President
 - Is jointly funded by several agencies including the DOE, DoD, DHS and Intel community to facilitate "WFO"
 - Enjoys special relationship with industry to facilitate technology transfer

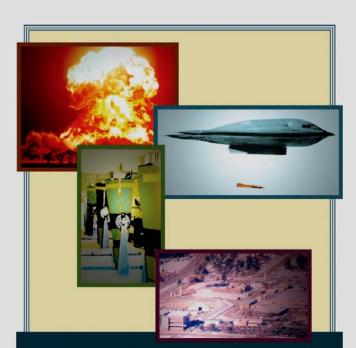






NWC Consolidation Policy Network Report

- Prepared by coalition of anti-nuclear organizations
 - Natural Resources Defense Council
 - Nuclear Watch New Mexico
 - Tri-Valley CAREs
 - Just Peace of Texas
 - Physicians for Social Responsibility
 - POGO
- Proposes shrinking Weapons Complex to three sites and establishing a "curatorship" role for the stockpile
- Many initiatives align with current Administration policy areas
- Does not provide data or analysis behind proposals, other than "feel good" agenda
- Builds on premise that the NNSA Complex Transformation analysis and decisions are based on "an obsolete 'Nuclear Posture Review' that the Bush Administration conducted in 2001."



Transforming the U.S. Strategic Posture and Weapons Complex for Transition to a Nuclear Weapons-Free World

Nuclear Weapons Complex Consolidation Policy Network

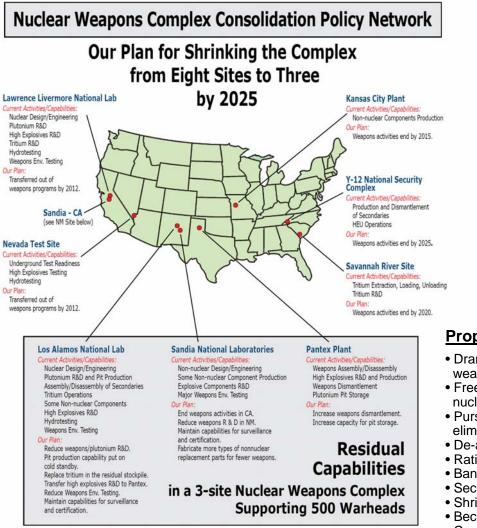
April 2009

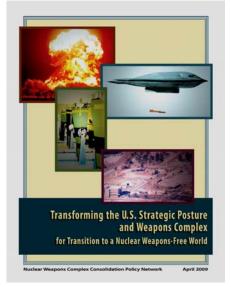
http://www.nrdc.org/nuclear/ http://docs.nrdc.org/nuclear/files/nuc_09040701a.pdf





NWC Consolidation Policy Network Report





http://www.nrdc.org/media/2009/090407a.asp

Proposal:

- Dramatically reduce stockpile and devalue nuclear weapons as instruments of national security
- Freeze all current designs and drastically reduce nuclear weapons research and development activities
- Pursue a strategy to a verified and enduring elimination of nuclear weapons throughout the world
- De-alert all U.S. nuclear forces
- Ratify the CTBT
- Ban fissile material production
- Secure global stockpile and fissile material
- Shrink the Weapons Complex to three sites
- Become curator for existing stockpile
- Cease all sub-critical tests



INMM

[Note: In "Environmental Testing" the Labs subject nuclear weapons to extremes of temperature, vibration, shock and radiation to mimic the conditions of delivery to the target and ensure their performance during a nuclear war.]

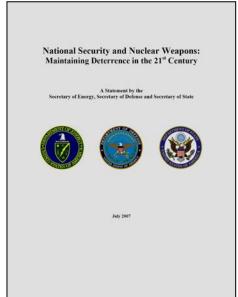


Joint Statement on Nuclear Policy

- Policy Statement by Secretaries of Energy, Defense and State (July 2007)
 - "The extension of a credible U.S. nuclear deterrent has been critical to allied security and removed the need for many key allies to develop their own nuclear forces.
 - "It is the policy of this Administration to achieve an effective strategic deterrent at the lowest level of nuclear weapons consistent with our national security and our commitments and obligations to allies."
 - "The 'new triad'...reduces U.S. reliance on nuclear weapons while mitigating the risks associated with drawing down U.S. nuclear forces."
 - "We are at a critical juncture that requires the U.S. to invest now in the capabilities needed to maintain a credible deterrent at the lowest level of nuclear weapons."
 - "The skills and technologies needed to refurbish and maintain these older weapons designs are increasingly difficult to sustain or acquire."
 - "Delays on RRW also raise the prospect of having to return to underground nuclear testing to certify existing weapons."



http://www.nnsa.doe.gov/docs/factsheets/2007/NA-07-FS-04.pdf

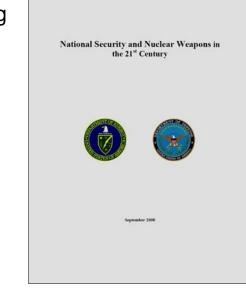


Final Joint (almost) Statement (Detailed Report)

- Consensus with Department of State could not be reached following July 2007 Joint Statement
 - Final joint DoD/DOE report issued in September 2008
 - Based upon 2001 NPR and prior work, including "lead and hedge" strategy of the Clinton Administration
 - U.S. would take lead in nuclear reductions
 - U.S. would hedge by maintaining an inventory of non-deployed warheads and delivery force structure
 - Recommends continuation of the RRW program
 - Points out that all Nuclear Weapons States are revitalizing their nuclear complexes and forces
 - Discusses concept of "nuclear umbrella" for allies
 - Assurance, Dissuasion, Deterrence and Defeat
 - Assure allies
 - Dissuade adversaries, potential adversaries and near-peers
 - Deter adversaries
 - Defeat adversaries
 - Requires a responsive infrastructure and sufficient force structure to address future threats

U.S. Strategic nuclear Force for 2012: • 450 Minuteman III ICBMs • 14 Ohio class SSBNs

- 20 B-2 and 56 B-52 bombers
- 1,700 to 2,200 warheads









Nuclear Policy and Posture Review Act

- S.1914
 - Requires President to conduct a nuclear policy and Posture review
 - Submit report on Nuclear Policy Review by September 1, 2009
 - Coordinated by National Security Advisor with Secretaries of State, Energy, and Defense; Directors of National Intelligence, Office of Management and Budget, and Office of Science and Technology Policy
 - Submit report on *Nuclear Posture Review* by March 1, 2010
 - Conducted by Secretary of Defense in collaboration with the Secretaries of Energy and State, the Director of National Intelligence, and the National Security Advisor
 - No funds may be appropriated for RRW for FY08, FY09, or FY10 until reports have been submitted to Congress







S.1914

Nuclear Policy and Posture Review Scope

- Nuclear Policy Review
 - Address role and value of nuclear weapons
 - Set short and long term objectives
 - Recommendations for strengthening NPT
 - Examine nonproliferation and arms control objectives
 particularly w/r to Article VI of the NPT
 - Examine START and Moscow Treaties and recommend successor treaty with verification provisions
 - Provide guidance for follow on Posture Review







S.1914

Nuclear Policy and Posture Review Scope

- Nuclear Posture Review
 - The role of nuclear forces including extent to which conventional forces can assume roles previously assumed
 - Requirements and objectives to maintain a safe, reliable and credible nuclear deterrence posture
 - Targeting strategy
 - Levels and composition of delivery systems
 - Examine nuclear complex including any plans to consolidate, modernize or modify
 - Active and inactive stockpile and plans for replacing or modifying warheads
 - Posture options examined and reasons for selection





Why USAF's Top Two Were Forced Out

Beheaded USAF Braces for Change

USAF Struggles To Explain Nuke Mistake

Firings Leave Acquisition,

Funding Questions Hanging

and Dying it abrowt 1,100 on Minot Ajr Porce Base, lurksdale Air Porce Base, Vog. 30 — han U.S. Air

Restructuring of DoD Nuclear Command

1 Section, 8 Pages

www.lamonitor.com

- Robert Selden, former directo Center for National Security Studi

Minot-Barksdale nuclear asset incident

ry 19, 2008

Taiwan nuclear fuse incident

MILITARY **U.S. Air Force punishes 17 officers** "It was indeed a wake-up call and I suspect this will mean that the procedures and the care that all the people put into it will be carefully done for quite a while now." for shipment of fuses to Taiwan

INMM

LOLITA C. BALDOR Aussaud /muitides WASHINGTON — The US. Air Force and US. Arroy have disciplined 17 the states of the military's 26 in taking into consider-of the military's 26 in taking into consider-Army spokesman Paul the Air Force, two major the Air Force, two major the further state general in the group have benefat to the state main the missiaken shipme the Air Force, two major the further state general in the group have benefat to the state main the direct state general in the group have provide the state of problems in the come known until this pe

Decline in focus led to

B-52 Mistakenly Transports Nukes



nuclear incident

61



What's Wrong With This Picture?

- The U.S. is re-examining its nuclear weapons Policy and Posture
 - Funding for RRW and other elements of the transformed Complex has not been forthcoming
 - Congressional actions usurping leadership role of NNSA and Laboratories
 - Critical technical resources are retiring while the "pipeline" is not being filled due to budget and policy decisions
- All of the other Nuclear Weapons States are enhancing their stockpiles and delivery systems
- Proliferation of nuclear weapons technology • continues in several countries
- Over 40 developing countries from the Persian Gulf ۲ to Latin America have announced intentions to pursue nuclear power options to satisfy energy McCain Wants To Slash Arsenal

demand

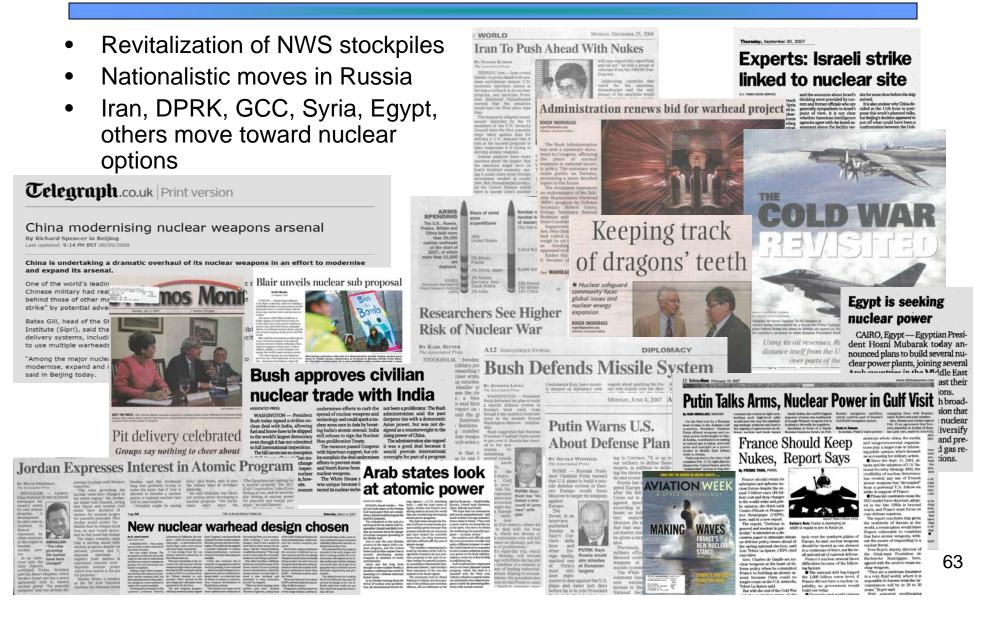








Meanwhile...The Dominoes Continue to Fall





U.K.

INMM

http://www.mod.uk/NR/rdonlvres/AC00DD79-76D6-4FE3-91A1-6A56B03C092F/0/DefenceWhitePaper2006 Cm6994.pdf

Aging Subst The HMS Victorious is one of four

ers at the July 6 Royal U

Sub Plot

- \$1.75B upgrade to AWE
- Development of High Surety Warhead - U.K. version of RRW
- \$30B \$40B upgrade to ٠ Trident fleet proposed
- Life Extension Program for ٠ Trident II D-5 SI BM

Submarine deterrent remains favorite to meet future need as Britain's nuclear narrative unfolds DOUGLAS BARRIE/LONDON The U.S. Navy now plans to re ce until 2040, rather than 2025. The D5 Life Ex se is that Brit um will see obsolencent ele w White Paner, doe out this year, will s thinking the U.S. shift to the D5 LE The British warhead can be appended ding to the De service in 1094, is 25 years. Similarly, the four Vanguard-class year design life. The first entered se mainder followed in 1995, 1998 and 20 istry has studied possibly extending the o maintain a capability until ar draw them from the en-The D5 LE option gives the gov MISSIL The Var ind 2025, wf Scientists are secretly working on the design of a revamped British nucle U.K. To Improve Nuclear **Facilities, Boost Staffing** By ANDREW CHUTER, LONDON

Still, the Mol

employees and 1,000 long-term contractors. To investment of Dicks and a set of the set

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aging of the four in-service Vanguard-class subs, the first of which will retire is 10(2), and E-mail: actuar@de

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The money will go to build new facilit

arch and manufacturing bu The agency, which currently has about 4,000

es and 1,000 long-term

ton and Burghfield

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Presented to Parliament by The Secretary of State for Defence and The Secretary of State for Foreign and Ith Affairs



ISAFMC Chief to Retire

of Her Majesty

Blair unveils nuclear sub proposal



64

The Herald

Britain in top-secret work on new atomic warhead

http://www.theherald.co.uk/news/news/display.var.1661681.0.britain in topsecret work

Exclusive by IAN BRUCE, Defence Correspondent

The new device, designated the High Surety Warhead is understood to k at the Atomic Weapons Establishment at Aldermaston in Berkshire.

The top-secret project is being run in conjunction with US efforts to build "failsafe" nuclear firepower for its own submarine-launched Trident missi

The Campaign for Nuclear Disarmament (CND) claims the research is a breach of international disarmament and non-proliferation treaties.

News of the research has leaked out less than a year after a succession plans to upgrade or refurbish the Royal Navy's existing stockpile of warh number about 160 weapons.

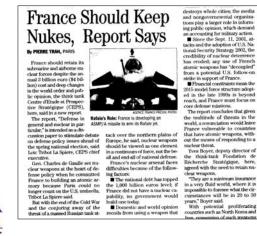


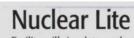


France

INMM

- \$10B M51 upgraded MIRV'd Ballistic missile development
- New warheads TNO and TNA will replace older TN75's and TN81's - to be designed using Megajoule Laser
- \$1.5B Megajoule Laser for simulation tests
- Advanced ASMP-A cruise missile entering service this year
- New Triomphant-Class Submarine Le Terrible – is under construction to enter service in 2010 with new SLBM (M-51)





Facility will simulate nuclear warhead blasts, making testing redundant MICHAEL A. TAVERNA/LE BARP, FRANCE

orkers are preparing to top out 1995 to gather addiconstruction of a gigantic inertial con-finement fusion facility here intend-ed to enable France to simulate the tional data to allow a new generation of TN75-based weapons-the advanced ASMP-A reliability and safety of its nuclear ar-Paria binty and safety of its nuclear ar-senal without resorting to testing. Paris imposed a unilateral moratori-um on nuclear testing in 1992, ending a long campaign initiated in 1960 in its cruise missile and the new MS1 submarine launched weapon-to be reliably tried out on South Pacific territories. The tests were a political liability at that site-the gova simulator The ASMP-A is set ernment last month issued a new report assuring local authorities that long-term effects of the trials will be limited—and that few geographically or politically suitable alternatives are available.

Tests on MIRVs, begun in 1985, served to develop a miniaturized warhead, the TN75, that forms the basis for this gen-



tion. The \$1.5-billion facility is expected to be ready by

to enter service in 2007 with the Mirage 2000N fighter, and a year later with the Rafale F3 (AW&ST July 3, p. 20). The M51 will join the arsenal in 2010 on board the Terrible, the fourth and last of a new class of ballistic missile launch sub-

TN75; that forms the basis for this gen-eration of French nuclear weapons. Those operations were resumed in the decision was accompanied



inated silo-based and artillery launched weapons no longer considered necessary with the end of the Cold War Although Paris has shown some interest in rethinking certain aspects of its nuclear doctrine, such as preemptive strike, it says it has no intention of de-

veloping a family of super-miniaturize weapons for battlefield use that might



INDIA TAPS THE BRAKES ON AIRLINE GROWTH PAGE 52

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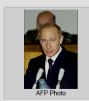
Southwest Regional Chapter



Russia

- New road-mobile and silo-based Topol-M (SS-27) ICBM
- New MIRV'd SS-27 (RS-24)
- New Bulava (SS-30) SLBM
- New Borey-class SSBN
- New long-range cruise missile (KH-102)
- Modernized Blackjack (Tu-160) heavy bomber **Energy Is Russia's New Power**

Russia to deploy new-generation nuclear weapons system: Putin



President Vladimir Putin served notice that Russia intended to remain a major nuclear power by deploying a new weapon in the coming years that other states lack and are unlikely to develop in the near future.

"We have not only conducted tests of the latest nuclear rocket systems," Putin told a meeting of the Armed Forces' leadership. "I am sure that in the coming years we will deploy them.

"Moreover, these will be things which do not exist and are unlikely to exist in other nuclear powers," he added.

Putin failed to specify what type of complex he was referring to, but Russia has been seeking to upgrade its nuclear arsenal after the United States announced plans in 2001 to deploy a missile defense shield in abrogation of its 1972 ABM Treaty with Moscow.



INTERNATIONAL Herald Eribune

Russia's defense minister lays out ambitious plans for new weapons purchases

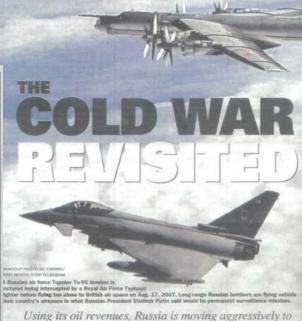
The Associated Press Wednesday, February 7, 2007 MOSCOW

Russia's defense minister on Wednesday laid out an ambitious plan for building new intercontinental ballistic missiles, nuclear submarines and possibly aircraft carriers, and set the goal of exceeding the Soviet army in combat readiness

Sergei Ivanov's statements appeared aimed at raising his profile at home ahead of the 2008 election in which he is widely seen as a potential a growing chill in Russian-U.S. r

Ivanov told parliament that the n the average of four deployed an program for 2007-2015 worth ab

The plan envisages the deploym 50 such missiles mounted on me



distance itself from the United States and regain control over parts of the former Soviet empire

66



China

- CSS-5 Mod 1 (DF-21) and CSS-5 Mod 2 (DF-21A) medium range ballistic missiles
- CSS-5 based JL-1 SLBM •
- **Developmental JL-2 SLBM**
- New class of SSBN (Type 094) ٠
- CSS-2 (DF-3A) IRBM, and multiple ICBM models
- Ballistic anti-carrier missile technology

18 DefenseNews March 30, 2009

DoD Report: China Arming for Unclear Purposes

time high, China is rapidly acquiring adtime high, China is rapidly acquiring ad-wanced weapons and is striving to solidify its dominance over Asia, the U.S. military says in a new report. China's military budget may be more than 136b billion a que report. Stastaining economic growth and China's growth Uberation Army to build beter ballistic mile strategies and sev seathliste, develous new sub-siles and own settlitiste, develous new sub-siles and sev seathliste, develous new sub-sub-seathliste develous new sub-seathliste develous new sub-sub-seathliste develous new sub-seathliste develous new sub-sub-seathliste develous new sub-sub-seathliste develous new sub-sub-seathliste develous new sub-seathliste develous new sub-sub-seathliste develous new sub-sub-seathliste develous new sub-seathliste develous new sub-sub-seathliste develous new sub-seathliste new report sub-

siles and spy satellites, develop new submarines, expand its surface navy and con-struct fourth-generation fighters. From nuclear weapons to cyber warfare

capabilities, a "comprehensive transforma-tion" of the Chinese military is under way, according to the Pentagon's latest annual reaccording to use remeasurements port on Chinese military power. But if's unclear what China intends to do with its new military power. U.S. analysts have associated what China intends to do desire to retake Taiwan may also help Chi-with its new military power. The People's Laberation Army — which in-the People's Caberation Army — which in-

cludes ground, air and naval forces — is be-ing transformed from a force designed to "Anti-access will show up i cruces ground, ar and nival forces — is be-ing transformed from a force designed to fight long wars of attrition on its own terri-tory to a force capable of winning short,

bigh-intensity conflicts against high-tech ad-versaries on China's periphery. But China has used some of those same conditions and users the international pence-keeping, humanitarian and disaster relief of forts. And in January, Chinese destroyers joined an international fleet off Somalia to

In the pairs, U.S. assessments of Chainese Toulowing the election of a new pressure in power and intentions have focused on Thai-in Taiwan last year. Chain remains ob-wan and China's determination to reclaim sessed with the possibility of U.S. military the island, and that's in the new report. But intervention on behalf of Taiwan, the re-

To keep U.S. aircraft carriers and other naval forces at bay, China is investing in anti-ship ballistic and cruise missiles, surveillance satellites, mines, submarines and maritime strike aircraft. China's improved ability to conduct cyber tain economic growth.

China's "dependence on secure access to markets and natural resources, particularly metals and fossil fuels, has become an inoperations might be a more immediate con-cern for the United States, Patel said. There has been an increase in the number of cycreasingly significant factor shaping China's berattacks on the U.S. Defense Department strategic behavior," the Pentagon says. The "anti-access/area denial" strategy that U.S. analysts have associated with China's and intelligence agencies, he said, many of them apparently from China. "The Chinese keep poking us," he said.

In the past, they seemed to be searching for weaknesses in computer networks and systems. Now they appear to be actively exploiting the weaknesses, he said. The Pentagon report says the intrusions "focused on exfiltrating information," but

"Anti-access will show up in commerce and energy," he said. China's navy - now 260 ships - may the skills needed to break into systems and steal data are the same as those needed to conduct computer network attacks. "It remains unclear if these intrusions

prove valuable at keeping see lanes open for oil shipments to China from Saudi Arabia, Africa and East Asia. A blue-water navy were conducted by, or with the endorsement of" the Chinese military or govern-ment. But "developing capabilities for cyberwarfare is consi tent with authorita Taiwan to China. Despite reduced tensions [Chinese] military writings," the report says

lites into orbit, including four ing satellites, the Pentagon s Space-based capabilities gence, surveillance, recom gation and communications. reasing these, China is dev ensional program" to li the use of space by potential a In addition to the January

www.defensenews.com

stration that China can des with a ground-based miss sesses satellite jammers and i lasers, high-po red micr cle beam weapons for anti-sa the report says.

The pace and scale of Chine modernization is "broad and sw Pentagon says. But the new tacti ology "remain untested in mod This lack of operational en nent of th China's military transformatio Despite modernization, U.S. cies say the Chinese mi feat a moderate and it will not be able to sur military units : before 2015. its far beyond Ch

Telegraph.co.uk Print version

China modernising nuclear weapons arsenal

By Richard Spencer in Beijing Last updated: 9:14 PM BST 08/05/2008

China is undertaking a dramatic overhaul of its nuclear weapons in an effort to modernise and expand its arsenal.

One of the world's leading experts in arms control said today that the



China has secretly built a major underground nuclear submarine base that could threaten Asian countries and challenge American power in the region, it can be disclosed.



Chinese nuclear weaponry has fallen behind those of other major owers

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Uncertainties Posed Last Year

- Waning Congressional and public support for Nuclear Stockpile
 - Can Administration, DoD and DOE/NNSA articulate a convincing national policy for nuclear weapons in the post 9/11 environment?
- Budget deficits and the Long War on Terrorism
 - RRW and transformation will take additional funding or require potentially detrimental modification to current LEP and other programs
- Continuing security and management problems at DOE/NNSA and the Laboratories
- Next generation of weapons designers, researchers
- The asymmetric global terrorism threat
- The rise of China as a peer superpower
- Energy crisis
 - Global expansion of nuclear power and related technology
 - _ Global Warming





New Uncertainties to Ponder

- Global non-proliferation efforts
- Iran, DPRK nuclear weapons status
- Expansion of nuclear technology in Third World
- Stability of Pakistani Government
- Israeli-Palestinian issues
- Loss of Domenici and New Mexico Congressional Delegation seniority – as well as other Congressional leaders
- Iraq War/Afghanistan build-up
- Viability of Complex Transformation concept
- DOE/NNSA contracting concepts results from RFI
- New Administration push toward Global Zero
- Nuclear Posture Review and QDR 2010





Events Impacting the Weapons Labs

- Retirement of Senator Domenici
- Loss of Reps. Wilson and Pierce
- New Administration with focus on eliminating nuclear weapons
- Iranian and North Korean nuclear ambitions
- India nuclear technology agreement
- Barksdale and Taiwan nuclear incidents
- Stimson Report

SINMM

- Congressionally established U.S. Strategic Posture Commission
- Interest by UAE and others in nuclear technology
- Continuing negative press coverage and Congressional criticism
- Lack of national consensus on the future of the nuclear deterrent

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The Associated Press, for 40 years might not be although the two parties, which obtained a draft of served as well as bey descent permain fully competitive in the United States Senate." In the United States Senate." In the United States Senate. To Server of New Mexico Ol New Mexico Ol New Mexico Conflictent he will be able to which and Steve Perachang New Mexico Server the rest of his current been mentioned as possible in omninees from Domenical in a new Senate form. Unit of New Mexico Server the rest of his current been mentioned as possible in omninees from Domenical in the New Mexico Server the rest of his current been mentioned as possible in omninees from Domenical in the New Mexico Server the rest of his current been mentioned as possible in omninees from Domenical Server the rest of his current been mentioned as possible in omninees from Domenical Server the rest of his current been mentioned as possible in omninees from Domenical Server the rest of his current been mentioned as possible in omninees from Domenical Server the rest of his current been mentioned as possible in omninees from Domenical Server the rest of his current been mentioned as possible in omninees from Domenical Server the rest of his current been mentioned as possible in the senate of the Server the rest of his current been mentioned as possible in the senate of the Server the rest of his current been mentioned as possible in the senate of the Server the rest of his current been mentioned as possible in the senate of the Server the rest of his current been mentioned as the server the rest of his current been mentioned as possible in the senate of the Server the rest of his current been server the rest of his current been mentioned as possible in the senate of the Server the rest of his current been	*St. Pro- CARL A CLARK Market State Carlot A CLARK Market State Carlot A CLARK Market State Carlot A CLARK Market State Market State Ma	<text><text><text><text><text></text></text></text></text></text>	I dit quite to se who have in the bosh sais secant or the bosh sais secant to the bosh sais secant to the bosh to	S able will be a constrained of the second s





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What is the Future Path?

A proposed scenario construct: Labs/Weapons Program move to new entity New national security missions funded for Labs Revitalization of stockpile funding Direct "WFO" link to DoD NPR consensus NWCITF Future Reduction of global threat and consolidation into new entity creates broad support (no baggage) Damn the Torpedoes, Full Speed Ahead to maintain minimum deterrent leading to · Global discontinuity drives significant ramp up construction of consolidated nuclear facility at **DOE/NNSA** NTS and a new streamlined, modern stockpile. in RRW, transformation of complex, and return to testing. New entity is implemented to support a 21st Century nuclear arms race and National NPT Reaime is strenathened Laboratories are infused with new war-related funding. • Iran nuke program shut down DPRK abandons Nuke program U.N role grows – source material CTBT enters into force DPRK tests again Article VI of NPT pursued Iran tests The Global Nuclear Posture Pakistan nukes secured NWS test new designs Arab states move toward nuclear Pakistan loses control of Nukes **National Security Enterprise Global Zero** Global proliferation and other Reduced global threat delays transformation. distractions in Congress provide impetus Reduced funding for Labs nuke programs as for RRW while reduced budgets create national dialogue continues on future Nuclear the environment for Complex Transformation Posture, with emphasis on elimination. Confidence efforts to proceed in new Administration. in the stockpile gradually erodes, forcing concessions on global ban.



MMM

- NNSA and DOE remain intact
- Status quo for LEPs and Complex
- NPR stays ambiguous
- Budgets continue to decline

Can the Laboratories develop robust strategies to prepare for dramatically different worlds?



What Lies Ahead: Complex Transformation

- Report on Contract Strategy for Weapons Complex by Acquisition Strategy Team, led by Patty Wagner – May/June?
- Development of national consensus on stockpile
 - Congressional action
 - Follow on to Strategic Posture Commission Report released May 6, 2009 and related FY10 budget hearings – Summer 2009
 - Nuclear Posture Act required reports September 1, 2009 (Nuclear Policy) and March 1, 2010 (Nuclear Posture)
 - Quadrennial Defense Review 2010
- OMB report on NNSA move to DoD September 2009
- Further development of integrated National Security Enterprise concept based upon guidance from Administration
- START Treaty replacement December 2009
- FY11 budget February 2010
- NPT Conference May 2010

http://nnsa.energy.gov/defense_programs/complex_transformation.htm http://www.complextransformationspeis.com/







The Transformation of the U.S. Nuclear Weapons Complex



Past, Present and...

Future?

IT IS 5 MINUTES TO MIDNIGHT

The threat of a second nuclear age and the expected consequences of climate change push the Doomsday Clock closer to midnight.

These are historic times...we need to use all of our collective knowledge, wisdom, and *imagination*, to ensure that there is no question mark at the end of the road...our national security hangs in the balance

For electronic copies of this presentation email Jack Jekowski: jpjekowski@aol.com or visit ITP's website (<u>http://www.itpnm.com</u>) and click under "What's New". Previous presentations on this subject, including the 2006, 2007 and 2008 INMM presentations can be found at: <u>http://www.itpnm.com/whats-new-archives/whatsnew-archive-popup-may-15-2008.htm</u>