

- Requirements of the Defense Strategy,” *Annual Report to the President and Congress 2000*. Online at <http://www.dod.gov/execsec/adr1999/chap2.html>.
- 21 William M. Arkin, “Secret Plan Outlines the Unthinkable,” *The Los Angeles Times*, March 10, 2002 (web edition), quoting passages from the Nuclear Posture Review. “Nuclear Posture Review Excerpts.” Online at <http://www.globalsecurity.org/wmd/library/policy/dod/npr.htm>. For detailed analysis of the NPR, see *The Shape of Things to Come: The Nuclear Posture Review, Missile Defense, and the Dangers of a New Arms Race*, Western States Legal Foundation Special Report, April 2002. Online at <http://www.wslfweb.org/docs/shape.pdf>.
- 22 White House, *National Strategy to Combat Weapons of Mass Destruction*, December 2002. Online at <http://www.whitehouse.gov/news/releases/2002/12/WMDStrategy.pdf>.
- 23 “President Bush Outlines Iraqi Threat,” Remarks by the President on Iraq, Cincinnati Museum Center—Cincinnati Union Terminal, Cincinnati, Ohio, October 7, 2002. Online at <http://www.whitehouse.gov/news/releases/2002/10/20021007-8.html>.
- 24 William M. Arkin, “The Nuclear Option in Iraq: The U.S. has lowered the bar for using the ultimate weapon,” *Los Angeles Times*, January 26, 2003. Reproduced online at <http://www.commondreams.org/views03/0126-01.htm>.
- 25 Seymour Hersh, “The Iran Plans: Would President Bush go to war to stop Tehran from getting the bomb?” *The New Yorker*, April 17, 2006; Peter Baker, Dafna Linzer and Thomas E. Ricks, “U.S. Is Studying Military Strike Options on Iran: Any Mix of Tact, Threats Alarms Critics,” *Washington Post*, April 9, 2006; Seymour Hersh, “Last Stand: The military’s problem with the president’s Iran policy,” *The New Yorker*, July 10, 2006.

### Section 2.3: Nuclear Weapons Research and Development

- 1 *Weapons of Terror*, p. 61.
- 2 *Id.*, Chairman’s Preface, p. 15.
- 3 *Id.*
- 4 *Id.* (emphasis supplied).
- 5 *Id.*, p. 10.
- 6 *Id.*, p. 38.
- 7 *Id.*
- 8 *Id.*
- 9 *Id.*, p. 35 (emphasis supplied).
- 10 Amulya K.N. Reddy, “*Designing Nuclear Weapons: The Moral Question*,” in *Prisoners of the Nuclear Dream*, edited by M.V. Ramana and C. Rammmanohar Reddy, Orient Longman, New Delhi, 2003, pp. 190-194 (emphasis supplied).
- 11 Dwight D. Eisenhower, Farewell Address, January 17, 1961. Online at <http://www.americanrhetoric.com/speeches/dwightdeisenhowerfarewell.html>. The original speech as written used the term “Congressional-Military-Industrial Complex” but it was edited out of the speech as Eisenhower delivered it. See also <http://en.wikipedia.org/wiki/Military-industrial>.
- 12 Based on close observation and analysis of developments at our local nuclear weapons lab, Western States Legal Foundation, began warning of this in the

- early 1990s. See, for example, Michael Veiluva et al, "Laboratory Testing in a Test Ban/Non-proliferation Regime: Above Ground Experiments Threaten Compliance With Article VI of The Non-proliferation Treaty," Western States Legal Foundation and Greenpeace USA/International, April 1995. Online at <http://www.wslfweb.org/docs/agex.htm>.
- 13 U.S. Department of Energy, *Strategic Plan*, October 2, 2006 ("DOE Strategic Plan"), p. 6. Online at [http://www.doe.gov/media/2006\\_DOE\\_Strategic\\_Plan.pdf](http://www.doe.gov/media/2006_DOE_Strategic_Plan.pdf).
  - 14 The National Nuclear Security Administration (NNSA) was established in 2000 as an autonomous division within the Department of Energy in response to a Congressional mandate to "reinvigorate the security posture throughout the nuclear weapons program and reaffirm the Nation's commitment to maintaining the nuclear deterrence capabilities of the United States." *DOE Strategic Plan*, p. 13.
  - 15 National Nuclear Security Administration, "Design Selected for Reliable Replacement Warhead," Official Press Release, March 2, 2007. Online at [http://www.nnsa.doe.gov/docs/newsreleases/2007/PR\\_2007-03-02\\_NA-07-06.htm](http://www.nnsa.doe.gov/docs/newsreleases/2007/PR_2007-03-02_NA-07-06.htm).
  - 16 George Lobsenz, "NNSA Pursuing Second RRW Design 'Concept,'" *Defense Daily*, February 12, 2007.
  - 17 Andrew Lichterman, "Pentagon Envisions New Warheads for New Delivery Systems," *DisarmamentActivist.org*, July 27, 2006. Online at <http://disarmamentactivist.org/2006/07/27/pentagon-envisions-new-warheads-for-new-delivery-systems/>.
  - 18 Thomas P. D'Agostino, Deputy Administrator for Defense Programs, National Nuclear Security Administration Statement before the House Armed Services Committee Subcommittee on Strategic Forces, April 5, 2006, p. 9 (emphasis supplied). Online at [http://www.nnsa.doe.gov/docs/congressional/2006/2006-04-05\\_HASC\\_Transformation\\_Hearing\\_Statement\\_\(D'Agostino\).pdf](http://www.nnsa.doe.gov/docs/congressional/2006/2006-04-05_HASC_Transformation_Hearing_Statement_(D'Agostino).pdf).
  - 19 National Nuclear Security Administration, "Future of the Nuclear Weapons Complex," (undated). Online at [http://www.nnsa.doe.gov/docs/Future\\_of\\_the\\_Nuclear\\_Weapons\\_Complex.pdf](http://www.nnsa.doe.gov/docs/Future_of_the_Nuclear_Weapons_Complex.pdf).
  - 20 *Id.*
  - 21 National Nuclear Security Administration, "NNSA's Reliable Replacement Warhead (RRW) Program: Modernizing the Nuclear Weapons Complex Today To Make It More Responsive to the Challenges of Tomorrow," Fact Sheet, May 2006. Online at [http://www.nnsa.doe.gov/docs/factsheets/2006/NA-06\\_FS03.pdf](http://www.nnsa.doe.gov/docs/factsheets/2006/NA-06_FS03.pdf).
  - 22 Ambassador Linton F. Brooks, Administrator, National Nuclear Security Administration, Speech to the East Tennessee Economic Council, March 3, 2006, p. 4 (emphasis supplied). Online at [http://www.nnsa.doe.gov/docs/speeches/2006/speech\\_Brooks\\_East-Tenn-Economic-Council-03Mar06.pdf](http://www.nnsa.doe.gov/docs/speeches/2006/speech_Brooks_East-Tenn-Economic-Council-03Mar06.pdf).
  - 23 National Nuclear Security Administration, "NNSA Establishes New Office to Lead Future of Nuclear Weapons Complex," Press Release, June 28, 2006 (emphasis supplied). Online at [http://www.nnsa.doe.gov/docs/newsreleases/2006/PR\\_2006-06-28\\_NA-06-20.htm](http://www.nnsa.doe.gov/docs/newsreleases/2006/PR_2006-06-28_NA-06-20.htm).
  - 24 The Stockpile Life Extension Program extends the lifetime of existing nuclear weapons by identifying and correcting potential technical issues and refurbishing and replacing certain components within each weapon. The Life Extension program can also give existing weapons new or enhanced military capabilities. For example, under this program the W76 warhead is being

- given a capacity to destroy “hard targets” with a “ground burst” by modifying a sub-system in its reentry vehicle. The W76 is also the first warhead being redesigned under the Reliable Replacement Warhead Program, with the intention of manufacturing entirely new warheads.
- 25 Brian Ellison, “Overview of Fiscal Year 2008 Department of Energy Budget Request,” Center for Defense Information, February 8, 2007 (“*Ellison*”). Online at <http://www.cdi.org/program/document.cfm?documentid=3831&programID=32>.
  - 26 William D. Hartung and Frida Berrigan, “Complex 2030: The Costs and Consequences of the Plan to Build a New Generation of Nuclear Weapons,” World Policy Institute, Arms Trade Resources Center, New School University, New York, April 2007, p. 8. Online at <http://www.worldpolicy.org/projects/arms/reports/nuclearcosts.4.2.07.pdf>.
  - 27 Dr. Robert Civiak, “Still At It: An Analysis of the Department of Energy’s Fiscal Year 2007 Budget Request for Nuclear Weapons Activities,” Tri-Valley CAREs, (undated), p. 1. Online at <http://www.trivalleycares.org/DOEFY07WeaponsBudg.pdf>.
  - 28 Department of Energy, *FY 2008 Congressional Budget Request: National Nuclear Security Administration, Volume 1*, DOE/CF-014, February 2007 (“*DOE FY2008*”), p. 8. Online at [http://www.mbe.doe.gov/budget/08budget/Content/Volumes/Vol\\_1\\_NNSA.pdf](http://www.mbe.doe.gov/budget/08budget/Content/Volumes/Vol_1_NNSA.pdf)
  - 29 Department of Energy, *FY 2008 Congressional Budget Request, Budget Highlights*, DOE/CF-021, February 2007 (“*DOE FY2008 Highlights*”), p. 12. Online at <http://www.mbe.doe.gov/budget/08budget/Content/Highlights/Highlights.pdf>.
  - 30 *Id.*
  - 31 *Ellison*.
  - 32 National Nuclear Security Administration, “NNSA Marks Major Milestone For Tritium Production; Tritium Extraction Facility Up and Running at Savannah River Site,” Press Release, December 4, 2006. Online at [http://www.nnsa.doe.gov/docs/newsreleases/2006/PR\\_2006-12-04\\_NA-06-48.htm](http://www.nnsa.doe.gov/docs/newsreleases/2006/PR_2006-12-04_NA-06-48.htm)
  - 33 “Los Alamos restores U.S. ability to make nuclear weapons,” official news release from Los Alamos National Laboratory, April 22, 2003, <http://www.lanl.gov/news/releases/archive/03-054.shtml>
  - 34 *DOE FY2008*, p. 56.
  - 35 Greg Mello, “Restarting plutonium pit production: no need, high costs,” Los Alamos Study Group, February 24, 2007 (draft). Online at [http://www.lasg.org/PU\\_talking\\_points1.htm](http://www.lasg.org/PU_talking_points1.htm).
  - 36 Robert S. Norris and Hans M. Kristensen, “Global nuclear stockpiles, 1945-2006,” *Bulletin of the Atomic Scientists*, July/August 2006, pp. 64-66.
  - 37 Department of Energy, “Notice of Intent To Prepare a Supplement to the Stockpile Stewardship and Management Programmatic Environmental Impact Statement—Complex 2030,” *Federal Register*, Vol. 71, No. 202, October 19, 2006, p. 61,731. Online at <http://www.complex2030peis.com/NOI%20Oct%2019%2006.pdf>.
  - 38 *DOE FY2008 Highlights*.
  - 39 *Id.*
  - 40 National Nuclear Security Administration, “Joint Flight Test Program,” November 2006 (emphasis supplied). Online at <http://www.complex2030peis.com/Flight%20Test%20Program.pdf>.

- 41 See, for example, H. Josef Hebert, "Study: Warhead plutonium long-lasting," Associated Press, November 29, 2006. Online at [http://p107.news.scd.yahoo.com/s/ap/20061130/ap\\_on\\_sc/plutonium\\_weapons](http://p107.news.scd.yahoo.com/s/ap/20061130/ap_on_sc/plutonium_weapons).
- 42 Ian Hoffman, "Report: Nukes not so rusty, New information on plutonium's lifespan undermines Bush's plan," *Oakland Tribune*, November 29, 2006. Online at [http://www.insidebayarea.com/search/ci\\_4738283](http://www.insidebayarea.com/search/ci_4738283).
- 43 National Nuclear Security Administration, "Nuclear Weapons Officials Agree to Pursue RRW Strategy," NNSA News, December 1, 2006. Online at [http://www.nnsa.doe.gov/docs/newsreleases/2006/PR\\_2006-12-01\\_NA-06-47.pdf](http://www.nnsa.doe.gov/docs/newsreleases/2006/PR_2006-12-01_NA-06-47.pdf)
- 44 Gene Aloise, Director Natural Resources and Environment, Government Accountability Office, "Nuclear Weapons: Views on Proposals to Transform the Nuclear Weapons Complex," Statement Before the House of Representatives Appropriations Subcommittee on Energy and Water Development, April 26, 2006, p. 1. Online at <http://www.gao.gov/new.items/d06606t.pdf>.
- 45 *Id.*, pp. 13-14.
- 46 James Sterngold, "Los Alamos scientist criticizes federal approach to arsenal," *San Francisco Chronicle*, February 13, 2007. Online at <http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2007/02/13/MNGI1O3N0G1.DTL>
- 47 National Nuclear Security Administration, "Complex 2030: An Infrastructure Planning Scenario for a Nuclear Weapons Complex Able to Meet the Threats of the 21st Century, 'Getting the Job Done,'" Office of Defense Programs, October 23, 2006, p. 1 (emphasis supplied). Online at [http://www.nnsa.doe.gov/docs/Complex\\_2030\\_Infrastructure\\_Planning\\_Scenario.pdf](http://www.nnsa.doe.gov/docs/Complex_2030_Infrastructure_Planning_Scenario.pdf).
- 48 President William J. Clinton, "Comprehensive Test Ban Treaty," Statement released by the Office of the Press Secretary, the White House, Washington, DC, August 11, 1995. Online at [http://findarticles.com/p/articles/mi\\_m1584/is\\_n34\\_v6/ai\\_17438469](http://findarticles.com/p/articles/mi_m1584/is_n34_v6/ai_17438469).
- 49 *Id.*
- 50 *Id.*
- 51 *Id.* See also The White House, "Comprehensive Test Ban Treaty Safeguards," Fact Sheet, Office of the Press Secretary, August 11, 1995. Online at <http://disarm.igc.org/ctbt.php>.
- 52 Jonathan E. Medalia, *Nuclear Weapons Stockpile Stewardship, The Role of Livermore and Los Alamos National Laboratories*, Congressional Research Service, May 12, 1994, pp. 5-6. See also, Deborah Shapely, *Promise and Power*, Little Brown & Co., 1993, p. 246.
- 53 Albright, Madeleine K., "Remarks at Chicago Council on Foreign Relations," as released by the Office of the Spokesman, U.S. Department of State, November 10, 1999. Online at <http://www.clw.org/archive/coalition/albright111099.htm>.
- 54 President William J. Clinton, Letter of transmittal to the Senate of the United States, for the advice and consent of the Senate to ratification of the Comprehensive Test ban Treaty, September 22, 1996. Online at <http://www.encyclopedia.com/doc/1G1-20379268.html>.
- 55 C. Bruce Tartar, Director, Lawrence Livermore National Laboratory, testimony submitted to the Senate Governmental Affairs Subcommittee on International Security, Proliferation and Federal Services, October 27, 1997 (emphasis supplied).
- 56 Secretary of Energy Federico Peña, Testimony before the Senate Appropriations Energy and Water Subcommittee, October 29, 1997.

- 57 Alva Myrdal, *The Game of Disarmament: How the United States and Russia Run the Arms Race*, Pantheon Books, New York, 1976, p. xxv.
- 58 *Id.*, p. 208.
- 59 *Id.*
- 60 Ian Hoffman, "Dems may support new nuke arsenal," *Oakland Tribune*, February 3, 2007. Online at [http://www.insidebayarea.com/search/ci\\_5150973](http://www.insidebayarea.com/search/ci_5150973).
- 61 *DOE Strategic Plan*, p. 5 (emphasis supplied).
- 62 See <http://lansllc.com/>.
- 63 Sandia also operates the Kauai Test Facility, a DOE rocket launch range in Hawaii, which supports a variety of rocket missions including weapons research and development. See <http://www.sandia.gov/about/index.html>.
- 64 Written testimony of Sigfried S. Hecker, Director, Los Alamos National Laboratory, Hearing of the Subcommittee on Strategic Force, Committee on Armed Services, U.S. Senate, March 19, 1997.
- 65 "Livermore lab holds key to any test ban," *Oakland Tribune*, August 30, 1987, p. A-4.
- 66 *30 Years of Technical Excellence*, Lawrence Livermore National Laboratory, 1982 (emphasis supplied).
- 67 "Knowing Pentagon Needs: A Key to Research Dollars," *Newsline*, Lawrence Livermore National Laboratory, September 29, 1992.
- 68 John H. Nuckolls, Director, Lawrence Livermore National Laboratory, Testimony before the House of Representatives Committee on Armed Services, March 22, 1994.
- 69 Hans A. Bethe, Henry W. Kendall, and Herbert F. York, Letter to Representative John T. Meyers, May 8, 1996 (emphasis supplied). Nearing 90 years of age at the time, Bethe, a Manhattan Project principal and former Director of the Theoretical Division at Los Alamos, was the most senior member of the group. York, a former Livermore Lab Director, is a member of the JASONs and a Professor at the University of California, which manages the weapons labs for the Department of Energy. Kendall, now deceased, taught at the Massachusetts Institute of Technology, and was the President of the Union of Concerned Scientists.
- 70 James Kitfield, "Pros and cons of new nuclear weapons debated," Daily Briefing, GovExec.com, August 18, 2003 (emphasis supplied). Online at <http://www.govexec.com/dailyfed/0803/081803nj1.htm>. Contrary to Robinson, the IAEA had no responsibility to detect Israel's weapons program because it is not a member of the NPT. To put it another way, Israel did not have an NPT Safeguards Agreement in force as it has never been a party to the NPT.
- 71 Linton F. Brooks, "FY 2004 National Defense Authorization Act," Department of Energy Memorandum For: Pete Nanos, Director Los Alamos National Laboratory; Michael Anastasio, Director Lawrence Livermore National Laboratory; C. Paul Robinson, President Sandia National Laboratory, December 5, 2003, obtained by the Los Alamos Study Group. Online at available at <http://www.lasg.org/technical/newweapons/LintonBrooksMemoDec5-2003.pdf>.
- 72 Written Statement of C. Paul Robinson, Director, Sandia National Laboratories, United States House of Representatives Committee on National Security, Joint Hearing the Subcommittee on Military Procurement and Subcommittee on Research and Development, March 12, 1996 (emphasis supplied).
- 73 "DOE, National Labs Select Five Universities to Bolster Large-Scale Computer



- Simulation Effort,” Lawrence Livermore National Laboratory press release, July 31, 1997 (emphasis supplied). Online at <http://www.llnl.gov/asci-alliances/asci-selections.html>.
- 74 “Washington State University Selected to Establish Shock Physics Institute to Understand Aging Nuclear Stockpile,” Washington State University press release, June 23, 1997.
- 75 Office of Defense Programs, Inertial Fusion Science in Support of Stockpile Stewardship Financial Assistance Program, Department of Energy, January 21, 1997.
- 76 “NNSA Announces A New Phase of its Academic Computational Science Partnership Program,” Lawrence Livermore National Laboratory news release, April 25, 2006. Online at [http://www.llnl.gov/pao/news/news\\_releases/2006/NR-06-04-09.html](http://www.llnl.gov/pao/news/news_releases/2006/NR-06-04-09.html).
- 77 Program Statement for the Advanced Simulation and Computing (ASC) Predictive Science Academic Alliance Program (PSAAP), Executive Summary. Online at [http://www.sandia.gov/NNSA/ASC/univ/psaap/program\\_statement.pdf](http://www.sandia.gov/NNSA/ASC/univ/psaap/program_statement.pdf).
- 78 *Predictive Science Academic Alliance Program (PSAAP) Guidelines for Applications of Interest*. Online at [http://www.sandia.gov/NNSA/ASC/univ/psaap/psaap\\_apps.pdf](http://www.sandia.gov/NNSA/ASC/univ/psaap/psaap_apps.pdf).
- 79 Theodore B. Taylor, “Circles of Destruction,” *Bulletin of the Atomic Scientists*, January/February 1996 (emphasis supplied).
- 80 *Id.* Taylor was an outspoken advocate for the abolition of both nuclear weapons and energy until his death in 2004. See Joe Holley, “Theodore Taylor Dies; Tried to Redirect Nuclear Power,” *Washington Post*, November 2, 2004, p. B6. Online at <http://www.pugwash.org/reports/nw/taylor.htm>.
- 81 Sir Joseph Rotblat, a nuclear physicist, was the only scientist to quit the Manhattan Project on moral grounds. He worked for nuclear disarmament for the rest of his life, chairing the launch of the Einstein-Russell Manifesto in 1955 and founding the Pugwash Conferences on Science and World Affairs in 1957. Rotblat and Pugwash were jointly awarded the Nobel Peace Prize in 1995. He died in 2005. See “Sir Joseph Rotblat,” *Guardian Unlimited*, September 2, 2005. <http://www.guardian.co.uk/life/science/story/0,12996,1561156,00.html>.
- 82 Theodore B. Taylor, *Thoughts About the Signing of the Comprehensive Nuclear Test Ban Treaty*, September 24, 1996 (emphasis supplied). Online at <http://prop1.org/2000/tedtctbt.htm>.
- 83 This recommendation was included in the report on the conclusions of the Centennial of the Russian Initiative: From the First Peace Conference, 1899—to the Third, 1999, held in Saint Petersburg, Russian Federation, from 22 to 25 June 1999, #47: “A view was expressed that the closure and monitoring of the nuclear weapons infrastructure should begin at the earliest possible time in the process of nuclear disarmament.” “A/54/381: Letter dated 10 September 1999 from the Permanent Representatives of the Netherlands and the Russian Federation addressed to the Secretary-General,” United Nations General Assembly 54th Session, September 21, 1999. Online at <http://www.un.org/law/cod/sixth/54/english/hague.htm>.
- 84 See <http://www.wslfweb.org/abolition/pledge.htm>.