Atomic Audit: Table of Contents

The <u>U.S. Nuclear Weapons Cost Study Project</u> was completed in August 1998 and resulted in the book <u>Atomic Audit: The Costs and Consequences of U.S. Nuclear Weapons Since 1940</u> edited by Stephen I. Schwartz. These project pages should be considered historical.

New research on arms control and nuclear weapons is being conducted by the <u>Brookings Arms</u> Control Initiative.

Foreword x

Abbreviations and Acronyms

A Methodological Note x

Epigraph x

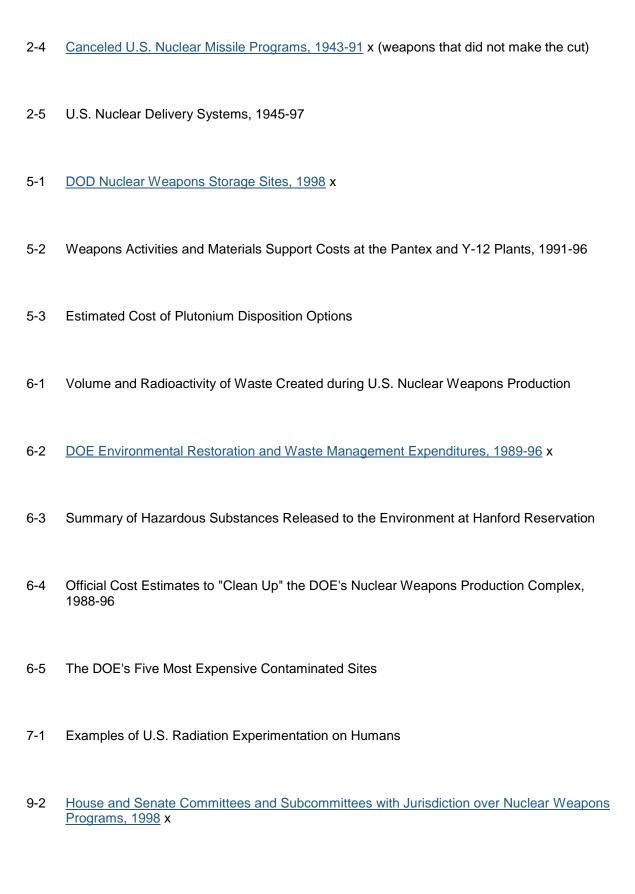
Introduction x

- 1. Building the Bomb
- 2. Deploying the Bomb
- 3. Targeting and Controlling the Bomb
- 4. Defending Against the Bomb
- 5. Dismantling the Bomb
- 6. Nuclear Waste Management and Environmental Remediation
- 7. Victims of the Bomb
- 8. The Costs and Consequences of Nuclear Secrecy
- 9. Congressional Oversight of the Bomb
- 10. The Economic Implications of Nuclear Weapons
- 11. Strengthening Atomic Accountability x

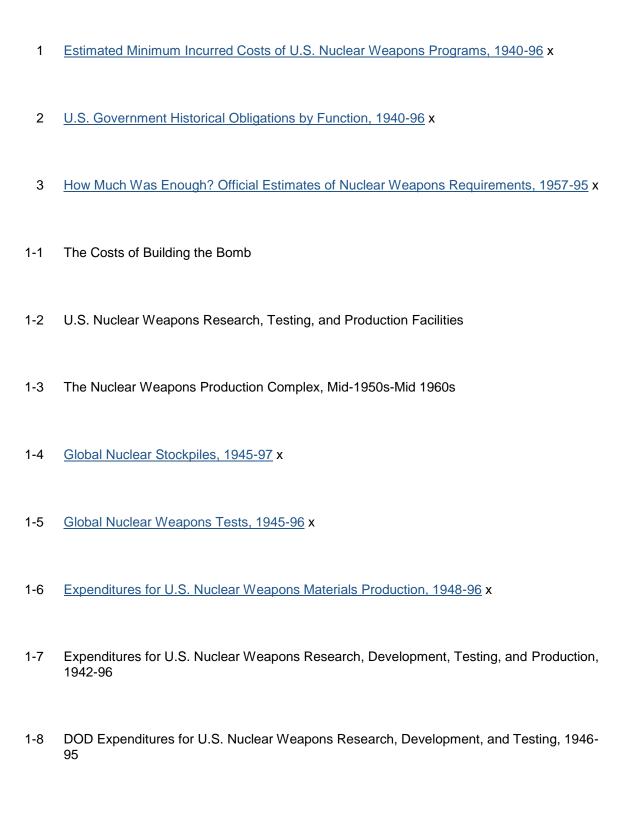
Appendices

- A. U.S. Nuclear Weapons Production Costs, 1948-96
- B. Selected DOD Nuclear Weapons Program Costs, 1962-95 sadface interactive
- C. Nuclear Weapons Production and Naval Nuclear Propulsion Facilities x

D. <u>As</u>	ssessing the Costs of Other Nuclear Weapon States x		
E. <u>St</u>	eering Committee of the U.S. Nuclear Weapons Cost Study Project x		
Seled	cted Bibliography		
Index			
Tables			
1	Breakdown of Total Actual and Estimated Expenditures for U.S. Nuclear Weapons, 1940-96 x (intro)		
2	Estimated Air Force and Overall DOD Expenditures for Nuclear Weapons, 1944-54 x (intro)		
1-1	Auditing the Manhattan Project: Where Did the Money Go?		
1-2	Manhattan Project and AEC Expenses, July 1, 1940, to June 30, 1947		
1-3	U.S. Nuclear Warheads, 1945-97		
1-4	Estimated DOD Expenditures on Nuclear Testing, Research, and Development		
2-1	U.S. Strategic Bombers, 1945-97		
2-2	Missile Silos and Launch Facilities Constructed in the United States, 1960-67		
2-3	U.S. Missiles, 1945-96		



Figures



2-1	The Costs of Deploying the Bomb
2-2	Average Unit Acquisition Costs for Strategic Nuclear Delivery Vehicles x
2-3	U.S. and U.S.S.R./Russian Strategic Offensive Nuclear Forces, 1945-97
3-1	The Costs of Targeting and Controlling the Bomb
3-2	The Evolving SIOP: Growth in Designated Targets for U.S. Strategic Nuclear Warheads, 1959-95
3-3	Organization of the U.S. Intelligence Community
4-1	The Costs of Defending Against the Bomb
4-2	The Cost of U.S. Ballistic Missile Defense Programs, 1962-96
5-1	The Costs of Dismantling the Bomb
5-2	DOE Facilities Currently Involved in Nuclear Weapons Dismantlement
6-1	The Costs of Nuclear Waste Management and Environmental Remediation
6-2	Employment Levels in the U.S. Nuclear Weapons Production Complex, 1949-71

6-3	DOE Spending on Environmental Remediation and Waste Management Programs, 1978-96
7-1	The Costs of Victims of the Bomb
7-2	Percentage of Fernald Workers with Lung Doses of Uranium Exceeding Prevailing Limits, 1952-80
7-3	Average Per Capita Thyroid Doses of Iodine-131 from U.S. Nuclear Testing Fallout, by County, 1951-62
7-4	Northern Marshall Islands
8-1	"It is desired that no document be released"
9-1	The Costs of Congressional Oversight of the Bomb
9-2	U.S. Expenditures for National Defense, 1940-96
Boxe	s
1	Visualizing the Cost of Nuclear Weapons
1-1	Growth and Evolution of the U.S. Nuclear Stockpile
1-2	Selecting a Continental Test Site

2-1	Europe and American Nuclear Strategy
2-2	Weapons That Did Not Make the Cut
2-3	Keeping Track of the Bomb
3-1	Securing Control of the Skies
3-2	SIOP Milestones
3-3	Emergency Command Posts and the Continuity of Government
3-4	The Football
4-1	"Looking for a Needle in a Haystack of Needles"
4-2	Neither Snow, Nor Sleet, Nor Heat, Nor Fallout
4-3	Protecting America's Cultural Heritage
6-1	Other Key Agencies
7-1	Monitoring the Aftermath of Hiroshima and Nagasaki

7-2	The U.S. Transuranium and Uranium Registries
7-3	Broken Arrows: The Palomares and Thule Accidents
7-4	Dose Reconstructions and Health Assessments
7-5	A Kodak Moment
8-1	Types of Classified Information and Nuclear Security Clearances
8-2	Moses Gets Clearance
8-3	The Green Run
8-4	Typical Costs of Security Investigations
8-5	Secrecy Run Amok
9-1	Representation of Selected Nuclear Weapons Production Facilities in the U.S. Senate, 1945-97
9-2	The JCAE and the Development of the Permissive Action Link
9-3	Other Agencies and Organizations with Oversight Functions

