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DOE/HS-90-0025 (Deleted Version)

**Twenty-Fifth Report on Inadvertent Releases of Restricted Data  
and Formerly Restricted Data under Executive Order 12958  
Deleted Version(U)**

Report to:

The Committee on Armed Services of the Senate  
The Committee on Armed Services of the House of Representatives  
The Assistant to the President for National Security Affairs

Deleted Version

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1st REVIEW - DATE: <u>5-10-07</u>	DETERMINATION (CIRCLE NUMBER(S))
AUTHORITY: <input type="checkbox"/> ADG <input checked="" type="checkbox"/> ADG <input type="checkbox"/> ADD	1. CLASSIFICATION RETAINED
NAME: <u>Anke Baker</u>	2. CLASSIFICATION CHANGED TO: _____
2ND REVIEW - DATE: <u>5-10-07</u>	3. CONTAINS NO DOE CLASSIFIED INFO.
AUTHORITY: <input type="checkbox"/> ADG <input type="checkbox"/> ADD	4. COORDINATE WITH: _____
NAME: <u>Roy Lee</u>	5. <input checked="" type="radio"/> CLASSIFICATION CANCELED
	6. CLASSIFIED INFO BRACKETED
	7. <input type="radio"/> OTHER (SPECIFY) <u>DOES NOT CONTAIN UCNI</u>



**U.S. Department of Energy  
Office of Classification  
Office of Health, Safety and Security  
Germantown, Maryland 20874**

May 2007

Classified By: Greg Gannon  
Office of Classification  
Derived From: CG-SS-4, 9/12/00  
Declassify on: Declassify when the  
information compromised is declassified

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# UNCLASSIFIED

The National Defense Authorization Act for Fiscal Year 1999 (Public Law (P.L.) 105-261) requires that the Secretary of Energy notify the Committee on Armed Services of the Senate, the Committee on Armed Services of the House of Representatives, and the Assistant to the President for National Security Affairs of inadvertent releases of Restricted Data (RD) and Formerly Restricted Data (FRD) associated with records declassified under what is now section 3.3 of Executive Order 12958, as amended.

As a result of the Department of Energy (DOE) examination of 4,031,160 additional pages of publicly available records accessioned by the National Archives and Records Administration (NARA), the Department discovered an additional 515 documents containing 1193 pages of RD and FRD which were inadvertently released:

Additional Pages Examined Since Last Report	Number of Documents with RD/FRD	Number of Pages in the Documents	Number of Pages RD	Number of Pages FRD
4,031,160	515	9,191	339	854

The identified documents are in collections belonging to the Department of State and the Department of the Army. The 515 documents were inadvertently declassified and made available to the public in **DELETED** by the Department of State and NARA.

No classified documents of the DOE or its predecessor organizations were inadvertently released.

The documents inadvertently released contained the following types of RD and FRD information:

RD	FRD
<ul style="list-style-type: none"><li>- Mass or dimensions of fissile materials</li><li>- Tampers and initiators</li><li>- Boosting systems</li><li>- Detonation systems</li><li>- High explosives</li><li>- Weapon/device output and performance</li><li>- Weapon reliability</li><li>- Nuclear weapon materials</li><li>- Gaseous diffusion technology</li><li>- Naval nuclear propulsion information</li><li>- Fusion weapon research</li></ul>	<ul style="list-style-type: none"><li>- Stockpile quantities</li><li>- Storage locations</li><li>- Storage capacities</li><li>- Costs of weapons and components</li><li>- Nuclear weapon yields</li><li>- Delivery system accuracy</li><li>- Height and depth of burst</li><li>- Yield select capability</li><li>- Nuclear test information</li><li>- Nuclear safing systems</li><li>- Designs of arming and fuzing systems</li></ul>

Improper markings in 307 of the 515 documents for classification level (e.g., Secret), classification category (e.g., RD), and/or automatic classification level downgrading occurred when the documents were originated or later during the documents' lifetime. The improper marking of the documents for classification level, classification category, and/or downgrading may have contributed to the inadvertent release of documents.

# UNCLASSIFIED

The Department of State, the Department of the Army and NARA have been afforded an opportunity to review their specific documents containing the RD and FRD information. The 515 documents have been withdrawn from public access and protected in accordance with DOE requirements.

The inadvertently released nuclear weapons design information (RD) detailed in this report concerns the early generations of nuclear weapons that this country developed in the 1950s and 1960s. Potential adversaries, emerging proliferant nations and terrorist groups aggressively target U.S. nuclear weapon information. Information regarding older nuclear weapons is of significant value since it is often technically less sophisticated. These designs would be most readily used by a would-be nuclear proliferant to obtain its first nuclear weapon.

The inadvertently released nuclear weapons utilization information (FRD) detailed in this report could assist potential adversaries in assessing the strength of the U.S. nuclear arsenal. Additionally, inadvertently released information on deployments of nuclear weapons outside the United States may violate international agreements and harm diplomatic ties with foreign host nations.

The inadvertently released naval nuclear propulsion information (also RD) addressed in this report could assist adversaries in the development of nuclear propulsion systems for their submarines and surface ships.

The training of other agency reviewers continues to reduce the rate at which Restricted Data and Formerly Restricted Data are improperly declassified.

DOE and NARA are working to better integrate their efforts to more quickly identify and safeguard documents potentially containing RD and FRD. All records that may contain RD and FRD are removed from public access. Details of the specific inadvertent releases are contained in the attached classified appendix.

**APPENDIX: SUMMARY OF FINDINGS (U) (DELETED VERSION)**

RG/EO <sup>1</sup> (Dept) <sup>2</sup>	Year Declassified (Department) <sup>3</sup>	Number of Documents containing RD/FRD <sup>4</sup>	Origination Dates of the Documents <sup>5</sup>	Number of Documents w/ Inappropriate Markings <sup>6</sup>	No. of Pages RD	No. of Pages FRD	RD/FRD Information Inadvertently Made Publicly Available
RG 59 <b>DELETED</b> (State)	<b>DELETED</b> (State)	120	1950-1966	108 of 120	50	144	RD: - Mass or dimensions of fissile materials - Efficiency of nuclear materials - Boosting systems - Thermonuclear weapon design - Outputs or performance of nuclear weapons - Nuclear weapon materials costs - Gaseous diffusion technology - Naval nuclear propulsion information FRD - Nuclear weapon stockpile quantities - Nuclear weapon storage locations - Costs of non-nuclear weapon components - Nuclear weapon yields - Delivery system accuracy - Nuclear test information - Utilization of nuclear weapons
RG 59 <b>DELETED</b> (State)	<b>DELETED</b> (State)	36	1960-1964	36 of 36	2	63	RD: - Naval nuclear propulsion information FRD - Nuclear weapon storage locations
RG 319 <b>DELETED</b> (Army)	<b>DELETED</b> (NARA)	40	1960	4 of 40	23	91	RD: - Mass or dimensions of fissile materials - Boosting systems - Detonation systems - High explosives for nuclear weapons - Nuclear weapon design details FRD: - Nuclear weapon stockpile quantities - Nuclear weapon storage locations - Nuclear weapon yields

**APPENDIX: SUMMARY OF FINDINGS (U) (DELETED VERSION)**

RG 319 <b>DELETED</b> (Army)  continued from page 1							<ul style="list-style-type: none"><li>- Nuclear weapon height/depth of burst</li><li>- Nuclear safety and safing systems</li><li>- Designs of arming, fuzing or firing</li></ul>
RG 319 <b>DELETED</b> (Army)	<b>DELETED</b> (NARA)	13	1950-1954	11 of 13	3	69	RD: <ul style="list-style-type: none"><li>- Other weapon design information</li></ul> FRD <ul style="list-style-type: none"><li>- Nuclear weapon stockpile quantities</li><li>- Nuclear weapon storage locations</li><li>- Nuclear weapon yields</li><li>- Nuclear weapon performance</li></ul>
RG 319 <b>DELETED</b> (Army)	<b>DELETED</b> (NARA)	68	1961-1962	32 of 68	6	115	RD: <ul style="list-style-type: none"><li>- Mass or dimensions of fissile material</li><li>- Tampers and initiators</li><li>- High explosives for nuclear weapons</li><li>- Weapon/device output and performance</li><li>- Other weapon design information</li></ul> FRD <ul style="list-style-type: none"><li>- Nuclear weapon stockpile quantities</li><li>- Nuclear weapon storage locations</li><li>- Nuclear weapon storage capacities</li><li>- Costs of nuclear weapons or components</li><li>- Nuclear weapon yields</li><li>- Hardening, vulnerability and countermeasures</li></ul>
RG 319 <b>DELETED</b> (Army)	<b>DELETED</b> (NARA)	137	1965	20 of 137	215	311	RD: <ul style="list-style-type: none"><li>- Mass or dimensions of fissile materials</li><li>- Efficiency of nuclear materials</li><li>- Nuclear weapon tampers</li><li>- Boosting systems</li><li>- Detonation systems</li></ul>

**APPENDIX: SUMMARY OF FINDINGS (U) (DELETED VERSION)**

RG319 <b>DELETED</b> (Army)  continued from Page 2							<ul style="list-style-type: none"><li>- High explosives for nuclear weapons</li><li>- Thermonuclear weapon design</li><li>- Outputs or performance of nuclear weapons</li><li>- Nuclear weapon design details</li><li>- Other nuclear weapon design information</li><li>- Nuclear weapon material costs</li><li>- Naval nuclear propulsion information</li></ul> <b>FRD</b> <ul style="list-style-type: none"><li>- Nuclear weapon stockpile quantities</li><li>- Nuclear weapon storage locations</li><li>- Nuclear weapon yields</li><li>- Performance and operational limitations of weapons</li><li>- Nuclear weapon height/depth of burst</li><li>- Yield selection capability in a specified weapon</li><li>- Nuclear test information</li><li>- Nuclear safety and safing systems</li><li>- Designs of arming, fuzing, or firing systems</li></ul>
RG 335 <b>DELETED</b> (Army)	<b>DELETED</b> (NARA)	101	1953-1962	96 of 101	40	61	<b>RD:</b> <ul style="list-style-type: none"><li>- Boosting systems</li><li>- Thermonuclear weapon design</li><li>- Outputs and performance of nuclear weapons</li><li>- Nuclear weapon material costs</li><li>- Fusion weapon research</li></ul> <b>FRD:</b> <ul style="list-style-type: none"><li>- Nuclear weapon stockpile quantities</li><li>- Nuclear weapon storage locations</li><li>- Costs of nuclear weapon components</li><li>- Nuclear weapon yields</li><li>- Nuclear weapon delivery system accuracy</li><li>- Nuclear weapon test information</li><li>- Hardening and countermeasures of nuclear weapons</li></ul>

**APPENDIX: SUMMARY OF FINDINGS (U) (DELETED VERSION)**

	Number of pages in findings	Number of Documents containing RD/FRD	Origination Dates of the Documents	Number of Documents w/ Inappropriate Markings	No. of Pages RD	No. of Pages FRD	
Totals	9,191	515	1950-1966	307 of 515	339	854	

1 (U) RG/EO = Record Group/Executive Order Plan Number of the file series found to contain RD and/or FRD.

2 (U) Dept = Executive Branch Department or Agency that submitted the file series to the National Archives and Records Administration (NARA); State: Department of State; Army: Department of the Army.

3 (U) Year Declassified (Department) = Year the file series was declassified and the department/agency that conducted the declassification.

4 (U) Number of Documents containing RD/FRD = Number of documents found to contain RD and/or FRD per current classification guidance in accordance with the Atomic Energy Act of 1954, as amended.

5 (U) Origination Dates of the Documents = Period of time over which the documents were originated.

6 (U) Number of Documents w/ Inappropriate Markings = Number of documents containing RD/FRD found to have inappropriate classification, declassification, and/or downgrading markings. This includes inadequately marked documents that had routing/transmittal/endorsement cover sheets with inappropriate markings.