[redacted]

DOE/SO-22-0003 (Deleted Version)

Third 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 ONLY

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEW-DATE: 5/15/01	DETERMINATION [CIRCLE NUMBER(S)]
AUTHORITY: DC, DO	1. CLASSIFICATION RETAINED
NAME: E. R. Kovacs	2. CLASSIFICATION CHANGED TO:
	3. CONTAINS NO DOE CLASSIFIED INFO
2ND REVIEW-DATE: 5/15/01	4. COORDINATE WITH:
AUTHORITY: DO	5. CLASSIFICATION CANCELED
NAME:	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY): DELETED

VERSION ONLY

DEPARTMENT OF ENERGY UCNI REVIEW	
UCNI REVIEWING OFFICIAL	DETERMINATION [CIRCLE NUMBER(S)]
NAME:	1. CONTAINS UCNI
	2. DOES NOT CONTAIN UCNI
DATE: 5/15/01	3. UCNI BRACKETED
	4. NO LONGER CONTAINS UCNI

U.S. Department of Energy
Office of Nuclear and
National Security Information
Germantown, Maryland 20874

May 2001

~~RESTRICTED DATA~~
~~This document contains Restricted Data as defined in the Atomic Energy Act of 1954, as amended. Unauthorized disclosure is subject to Administrative and Criminal Sanctions.~~

~~Classified By: Finn K. Neilsen~~
~~Acting Director~~
~~Office of Nuclear and~~
~~National Security Information~~
~~Derived From: CG-W-5 10/16/95; CG-SS-4 9/12/00~~

[redacted]

The National Defense Authorization Acts for Fiscal Years 1999 and 2001 (Public Laws (P.L.) 105-261 and 106-398) require 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 section 3.4 of Executive Order (E.O.) 12958.

As a result of the Department of Energy's (DOE's) examination of an additional approximately 100 million pages of publicly available records accessioned by the National Archives and Records Administration (NARA), the Department discovered an additional 288 documents containing 840 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
100 Million	288	10,991	80	760

The identified documents are in collections belonging to the Department of State and the Department of Defense (Office of the Secretary of Defense (OSD), Army, Navy, and Air Force). The documents were inadvertently declassified and made available to the public during the years from 1995 to 2000 by the Department of State, the Department of the Navy, and NARA. Three of the documents were subsequently found on the Internet.

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

The documents contained RD and FRD information, including:

RD	FRD
- mass and dimensions of fissile materials - quantity of high explosives - number of detonators - detonation simultaneity requirements - tamper materials - contribution of boosting to performance - how small a weapon can be designed - fissile material compression information - design for a levitated pit - yield of an individual device stage - yield to weight ratio - methods of yield selection	- yield - storage locations - stockpile quantities and production rates - costs - use control - delivery system accuracy - height and depth of burst - vulnerability and hardening - operational limitations - one-point safety

A significant portion of the documents (225 of the 288) were improperly marked for classification level (e.g., Secret), classification category (e.g., RD), and/or automatic classification level downgrading and/or declassification. The improper markings occurred when the documents were originated, or at a later time during the lifetime of the documents. The improper marking of the documents for classification level, classification category and/or downgrading/ declassification may have contributed to the inadvertent release of the documents and their RD and FRD content.

NARA, the Department of State, and the Department of Defense have been advised that the specific documents contain RD and FRD. The 288 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 first generations of nuclear weapons that this country developed in the 1940's and 1950's. Potential adversaries, emerging proliferant nations and terrorist groups aggressively target U.S. nuclear weapon information. Official documents and records are often regarded as having significantly more value than other sources of information about nuclear weapons related information. Information regarding older nuclear weapons is of significant value since they are 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 strengths of the U.S. nuclear arsenal. Additionally, inadvertently released information on deployments of nuclear weapons outside of the U.S. 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.

DOE will be conducting an assessment of the damage to national security resulting from the inadvertent release of RD and FRD addressed in this report.

In accordance with P.L. 105-261, and the Special Historical Records Review Plan, DOE has trained 1,267 individuals to recognize RD and FRD information. This included 156 individuals from the Department of State, 58 from the Department of the Navy, and 76 from NARA. Additional training has been scheduled this year for NARA and is available to other government departments/agencies.

DOE and NARA are working to better integrate their efforts to more quickly identify and safeguard documents potentially containing RD and FRD. The immediate objective is to identify through surveys those file series currently available to the public that are most at risk to contain RD and FRD, and to safeguard those file series until a detailed analysis can be performed.

Specific details regarding the inadvertent releases are contained in the attached classified appendix.

APPENDIX: SUMMARY OF FINDINGS (DELETED VERSION)

RG/EO[1] (Dept)[2]	Year Declassified (Department)[3]	Number of Documents containing RD/FRD[4]	Origination Dates of the Documents[5]	Number of Documents w/ Inappropriate Markings[6]	No. of Pages RD	No. of Pages FRD	RD/FRD Information Inadvertently Made Publicly Available
Deleted (DOS)	**Deleted** (DOS)	45[7]	1959 - 1964	45 of 45	1	67	RD: Fusion weapon research FRD: Nuclear weapon yield, locations, stockpile quantities, use control, and cost

[1]RG/EO = Record Group/Executive Order Plan Number of the file series found to contain RD and/or FRD

[2]Dept = Executive Branch Department or Agency that submitted the file series to the National Archives and Records Administration (NARA);
DOS: Department of State; Army: Department of the Army; Navy: Department of the Navy;
Air Force: Department of the Air Force; OSD: Department of Defense, Office of the Secretary of Defense.

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

[4]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]Origination Dates of the Documents = Period of time over which the documents were originated.

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

[7]Three of the 45 documents also included information that may be protected by a foreign country. Issue being coordinated through applicable agencies.

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Deleted (DOS)	**Deleted** (DOS)	21	1973 - 1976	21 of 21	0	45	FRD: Nuclear weapon yield, locations, stockpile quantities, and cost Nuclear device test design yield Nuclear weapon delivery system accuracy Specified nuclear weapon as having the capability for field selection of nuclear yield
Deleted (DOS)	**Deleted** (DOS)	35[8]	1963 - 1976	33 of 35	1	91	RD: Mass of fissile material in an implosion assembled nuclear weapon FRD: Nuclear weapon locations and stockpile quantities (3 of the documents found on the Internet)

[8]In addition to the 35 documents, 27 NARA withdrawal notices and 2 document folder titles were found to contain FRD. The documents with RD/FRD were withdrawn from archival boxes by NARA and replaced with withdrawal notices that inadvertently contained FRD (confirmation of nuclear weapon locations). Additionally, two document folders had title tabs with the FRD information. NARA has replaced the withdrawal notices and document folders.

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Deleted (DOS)	**Deleted** (DOS)	8	1957 - 1958	8 of 8	0	11	FRD: Nuclear weapon locations
Deleted (OSD)	**Deleted** (NARA)	3	1952 - 1953	3 of 3	10	0	RD: Specific material used in radiological warfare
Deleted (Army)	**Deleted** (NARA)	13[9]	1966 - 1973	13 of 13	5	27	RD: Naval Nuclear Propulsion Information **DELETED** FRD: Association of nuclear test with a specified weapon Nuclear weapon yield, locations, and stockpile quantities Specified nuclear weapon as having a capability for field selection of nuclear yield
Deleted (Army)	**Deleted** (NARA)	1	1955 - 1955	1 of 1	0	2	FRD: Nuclear weapon yield

[9]Four of the documents were Department of the Navy budget documents found in Army file series.

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Deleted (Army)	Deleted (NARA)	111	1955 - 1958	60 of 111	44	409	RD: Mass and dimensions of fissile material in nuclear weapon Implosion performance data revealing the degree of compression of fissile materials during implosion Internal volume of a pit **DELETED** Number of detonators in a nuclear weapon Quantity of high explosive in a nuclear weapon Implosion detonator simultaneity requirements for a nuclear weapon Identification of tamper materials used in a nuclear weapon Quantitative information on the contribution of boosting to nuclear design and performance ** ** **DELETED** ** ** ** Identification of specific material used in radiological warfare Total production costs of a weapon including nuclear fuel materials Yield of an individual nuclear device stage Weight of a nuclear assembly system Outside diameter of a nuclear assembly system Location of neutron generators in a weapon Association of test event with a nuclear device Association of a nuclear weapon with a nuclear device

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Deleted (Army) (Con't)							FRD: Nuclear weapon and test event yields Nuclear weapon system level vulnerability and hardness Nuclear weapon production rates and stockpile quantities Nuclear weapon operational limitations Nuclear weapon locations Nuclear weapon height and depth of burst Association of nuclear test event with specified nuclear weapon Identification of specific nuclear weapons with field or rapidly selectable yields Nuclear weapon one point safety
Deleted (Army)	**Deleted** (NARA)	1	1959 - 1959	1 of 1	1	0	RD: **DELETED**
Deleted (Army)	**Deleted** (NARA)	12	1957 - 1958	10 of 12	4	47	RD: Specific tamper material for specified nuclear weapon **DELETED** FRD: Nuclear weapons locations and stockpile quantities Nuclear weapon height of burst

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Deleted (Army)	**Deleted** (NARA)	1	1962 - 1962	0 of 1	1	1	RD: ** **DELETED** FRD: Nuclear weapon yield
Deleted (Army)	**Deleted** (NARA)	17	1958 - 1960	14 of 17	2	19	RD: ** **DELETED** FRD: Nuclear weapon yield and stockpile quantities Association of nuclear test event with specified nuclear weapon
Deleted (Army)	**Deleted** (NARA)	2	1960 - 1963	2 of 2	0	2	FRD: Nuclear weapon locations Nuclear weapon yield

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Deleted (Army)	**Deleted** (NARA)	2	1966 - 1967	0 of 2	0	21	FRD: Nuclear weapon locations and stockpile quantities Nuclear weapon firing system capability
Deleted (Army)	**Deleted** (NARA)	4	1964 - 1964	4 of 4	0	9	FRD: Nuclear weapon locations
Deleted[10] (Navy)	**Deleted** (Navy)	6[11]	1962 - 1962	4 of 6	5	4	RD: Naval Nuclear Propulsion Information FRD: Nuclear weapon locations

[10] **DELETED** This report's finding concerns only the declassified and publicly available portion of the file series.

[11] Two of the documents were tabbed for exemption from declassification under EO 12958. The agencies of concern are working to resolve why the tabbed documents were present.

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Deleted (Navy)	**Deleted** (Navy)	3	1958 - 1961	3 of 3	6	0	RD: Naval Nuclear Propulsion Information
Deleted (Air Force)	**Deleted** (NARA)	3	1958 - 1961	3 of 3	0	5	FRD: Nuclear weapon yield
	Total	288		225 of 288	80	760	