

# U.S. DEPARTMENT OF ENERGY



## UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

### GENERAL GUIDELINE GG-5

February 2004

Information Classification and Control Policy  
Security Policy Staff  
Office of Security  
Washington, DC 20585

**U.S. Department of Energy**

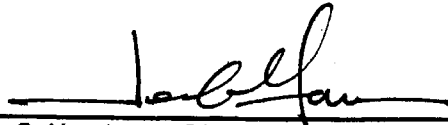
**UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION**

**General Guideline**

**GG-5**

**February 2004**

Approved by: \_\_\_\_\_



Date: \_\_\_\_\_

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Information Classification  
and Control Policy  
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**GG-5**  
**Unclassified Controlled Nuclear**  
**Information General Guideline**

**INTRODUCTION**

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**A. Purpose**

This General Guideline contains topics that identify what information is Unclassified Controlled Nuclear Information (UCNI) based on control determinations made under 10 CFR 1017.7 and reported under 10 CFR 1017.11. Where useful, it contains topics identifying certain information that is not UCNI. This General Guideline is the basis for:

1. Topical Guidelines and Internal Guidelines used by Reviewing Officials to determine whether specific information is UCNI.
2. Determinations made by the Director, Information Classification and Control Policy (ICCP), about whether specific information is UCNI in any subject area where no Topical or Internal Guideline exists.

**B. Cancellation**

This document supersedes GG-4, "Unclassified Controlled Nuclear Information General Guideline," dated September 1994.

**C. Relationship to Classified Information**

Any information under consideration for protection as UCNI must first be reviewed to ensure that it is unclassified and, therefore, eligible for control as UCNI.

**D. Information Not Covered by This Guideline**

If anyone thinks that information should be UCNI that does not fall under the scope of this Guideline, then he or she may propose changes to ICCP. ICCP reviews these proposed changes and, if appropriate, initiates the revision process.

**E. Questions Concerning this Guideline**

Field personnel should contact their Classification Officer and DOE Headquarters and other-agency personnel should contact ICCP regarding questions concerning this Guideline.

## **F. References**

1. Section 148 of the Atomic Energy Act of 1954 (42 U.S.C. 2168), is the statutory basis for the control of UCNI.
2. 10 CFR Part 1017, "Identification and Protection of Unclassified Controlled Nuclear Information," implements section 148 (42 U.S.C. 2168) of the Atomic Energy Act of 1954.
3. DOE O 471.1A, "Identification and Protection of Unclassified Controlled Nuclear Information," and DOE M 471.1-1, "Identification and Protection of Unclassified Controlled Nuclear Information Manual," both dated 6-30-00, establish policy and procedures for identifying and protecting UCNI.

## **G. Topic Cross-Reference List**

Each topic in this General Guideline that states that information is UCNI has been assigned an identification number separate from its topic number. The identification number must be cited following each topic identifying information as UCNI in a Topical or Internal Guideline that is based on a General Guideline topic. The purpose of these identification numbers is to ensure that every UCNI topic in Topical and Internal Guidelines is based on an UCNI control determination.

Missing identification numbers were associated with topics describing information that was not UCNI in the previous version of this Guideline. Since there is no need to cite a basis for information that is not UCNI, such topics no longer have an identification number.

In this revision, all topics have been reworded and some topics have been consolidated. The following tables list each topic number for topics that specify that information is UCNI. Due to the extent of this revision, each UCNI topic within existing UCNI Topical and Internal Guidelines should be reviewed as they are reissued to ensure that the topic still falls within the scope of the GG-5 topic on which it is based.

The following table allows one to find the topic number given the identification number:

Identification Number	Topic Number	Changes from GG-4
6	1111	Rewritten
7	N/A	No longer UCNI
8	5101	Simplified
10	3101	Simplified
11	1112	Rewritten
14	3102	Rewritten
15	1121	Rewritten
16	1113	Rewritten
17	1122	No longer addresses vulnerabilities
18	4101	Simplified
20	4121	Simplified
29	1131	Simplified
40	1132	Replaces 30, 31, and 32
41	2101	Replaces 12 and 13
42	2112	New topic
43	4102	New topic
44	4111	Replaces 19, 38, and 39

The following table allows one to find the identification number given the topic number:

Topic Number	Identification Number	Changes from GG-4
N/A	7	No longer UCNI
1111	6	Rewritten
1112	11	Rewritten
1113	16	Rewritten
1121	15	Rewritten
1122	17	No longer addresses vulnerabilities
1131	29	Simplified
1132	40	Replaces 30, 31, and 32
2101	41	Replaces 12 and 13
2112	42	New topic
3101	10	Simplified
3102	14	Rewritten
4101	18	Simplified
4102	43	New topic
4111	44	Replaces 19, 38, and 39
4121	20	Simplified
5101	8	Simplified

## H. Cross-Reference Requirements

Each topic in a Topical or Internal Guideline that designates information as UCNI must cite the identification number of either the General or Topical Guideline on which it is based. Each Topical Guideline must contain a cross-reference list, similar to that on the previous page, containing both Topical and General Guideline identification numbers.

### EXAMPLES:

- |          |   |      |
|----------|---|------|
| 6103     | This is a simulated General Guideline topic that is the direct (or indirect) basis for the examples below. It illustrates placement of the General Guideline topic identification number that is to be cited in any topic based directly on it. <b>(GG #99)</b>   | UCNI |
| 110      | This is a simulated Topical Guideline topic (in this example, from TG-XYZ-1) that illustrates placement of the citation to (1) the General Guideline topic on which it is based and (2) the Topical Guideline identification number to be cited in topics in other Topical or Internal Guidelines that are based on it. <b>(Basis: GG #99; ID No.: XYZ #12)</b> | UCNI |
| 424.6(b) | This is a simulated Internal Guideline topic that illustrates placement of the citation to the Topical Guideline topic on which it is based, specifically the one in the above example. <b>(Basis: XYZ #12)</b>   | UCNI |
| 1.2.4.6  | This is a simulated Internal Guideline topic that is <u>not</u> based on a Topical Guideline topic but is based directly on a General Guideline topic. It illustrates placement of the citation to the General Guideline topic on which it is based. <b>(Basis: GG #99)</b>   | UCNI |

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# CHAPTER 1

## SECURITY

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*NOTE:* Certain topics in this chapter use the terms “sensitive function” or “sensitive facility.” These generic topics apply to a specific function if that function falls within the scope of the term “sensitive function” as defined in the Definitions section. The local Classification Officer determines which facilities at a site are sensitive facilities based on whether (1) a facility performs or performed a sensitive function and (2) other information protection measures (e.g., classification) are adequate to protect security-related information at the facility. Internal guidelines may include site-specific applications of the following generic topics and should be consulted whenever they exist.

### **1100 Sensitive Functions and Sensitive Facilities**

- |      |   |                 |
|------|---|-----------------|
| 1101 | The fact that any specific function is a sensitive function                             | <b>Not UCNI</b> |
| 1102 | The fact that a specified facility is a sensitive facility                              | <b>Not UCNI</b> |
| 1103 | A list of sensitive facilities at a site  | <b>Not UCNI</b> |
| 1104 | Any association of a specified sensitive function with a facility where it is performed | <b>Not UCNI</b> |

### **1110 Overall Design and Operation of a Sensitive Facility**

- |      |  |             |
|------|--|-------------|
| 1111 | Exploitable security-related or essential technology-related design information concerning a specified sensitive facility that cannot be casually observed from an uncontrolled area (GG #6)             | <b>UCNI</b> |
| 1112 | Exploitable security-related information concerning equipment or components of sensitive facilities that if sabotaged could prevent safe shutdown or cause an unacceptable loss of operations (GG #11)   | <b>UCNI</b> |
| 1113 | Exploitable information concerning security equipment for the protection of production or utilization facilities, nuclear material contained in such facilities, or nuclear material in transit (GG #16) | <b>UCNI</b> |

### **1120 Security Operations and Deficiencies**

- |      |  |             |
|------|--|-------------|
| 1121 | Exploitable information concerning security plans and procedures for production or utilization facilities, nuclear material contained in such facilities, or nuclear material in transit provided this information cannot be obtained from an uncontrolled area (GG #15) | <b>UCNI</b> |
| 1122 | Exploitable information revealing capabilities or deficiencies of a specified security plan, procedure, or system (GG #17)   | <b>UCNI</b> |



**1130 Nuclear Emergency Support Team**

DOE established the Nuclear Emergency Support Team (NEST) using highly skilled experts from the national laboratories, other DOE contractors, and various Government agencies to provide a capability to:

- search for and aid in the recovery of a lost or stolen nuclear weapon and
- aid the Federal Bureau of Investigation in the event of a crime involving the theft or alleged theft of a nuclear weapon or SNM; a threat to detonate a stolen nuclear weapon, improvised nuclear device, or a radiation dispersal device; or attempt to commit any other crimes involving nuclear or radiological weapons, devices, or materials.

Much information concerning NEST is classified, and appropriate classification guidance must first be checked to ensure information concerning NEST is unclassified before determining whether the information is controllable as UCNI.

- |      |   |             |
|------|---|-------------|
| 1131 | Exploitable security-related or essential technology-related information concerning NEST operations, either training or actual, unless determined releasable by the Office of Emergency Response (GG #29) | <b>UCNI</b> |
| 1132 | Exploitable security-related or essential technology-related information on NEST procedures, assets, equipment, threats, capabilities, or limitations (GG #40)  | <b>UCNI</b> |

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## CHAPTER 2

### NUCLEAR MATERIAL PRODUCTION

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**2100 Design and Operation**

2101 Essential technology-related information regarding nuclear material production that is not obvious to an outsider skilled in the art (GG #41) **UCNI**

2102 Information concerning the design or operation of reactors used for the production of nuclear material for commercial use **Not UCNI**

**2110 Hanford Decommissioned Reactors and Associated Fuels and Production Separations**

2111 Design and operating data on Hanford's decommissioned reactors, fuel targets and cladding, separations, and reduction to metal process technology **Not UCNI**

2112 Beyond reduction-to-metal processing technology (i.e., weapon parts manufacturing), essential technology-related design and process information that is in sufficient detail to implement the technology but that has not been widely disseminated (GG #42) **UCNI**

*NOTE:* For other information not associated with the decommissioned reactors, their fuels and separations, refer to appropriate topics in this guideline or appropriate topical guidelines.

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## CHAPTER 3

### NUCLEAR POWER PRODUCTION

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#### 3100 Design and Operation

- |      |   |                 |
|------|---|-----------------|
| 3101 | Essential technology-related information regarding non-commercial nuclear power production that is not obvious to an outsider skilled in the art (GG #10) | <b>UCNI</b>     |
| 3102 | Essential technology-related information concerning the design of naval nuclear propulsion reactor plants or their components (GG #14)                    | <b>UCNI</b>     |
| 3103 | Information concerning the design or operation of commercial power producing reactors and the capabilities of such facilities                             | <b>Not UCNI</b> |

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## CHAPTER 4

### NUCLEAR WEAPONS AND RELATED TECHNOLOGY

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#### 4100 Design

- |      |  |      |
|------|--|------|
| 4101 | Essential technology-related design information for an actual or hypothetical nuclear weapon, except for specific examples of such designs approved for public release by the Director, Information Classification and Control Policy (GG #18) | UCNI |
| 4102 | Research and development results that reveal essential technology-related design information (GG #43)  | UCNI |

#### 4110 Manufacture

- |      |  |      |
|------|--|------|
| 4111 | Essential technology-related information regarding the manufacture of nuclear weapons (GG #44) | UCNI |
|------|--|------|

#### 4120 Utilization

- |      |  |          |
|------|--|----------|
| 4121 | Essential technology-related or exploitable security-related design information related to the utilization of nuclear weapons (GG #20)   | UCNI     |
| 4122 | Information concerning the handling of nuclear weapons that can be casually observed from an uncontrolled area (e.g., airports, railroads, highways)   | Not UCNI |
| 4123 | Information indicating the (a) total quantity produced of, (b) production rate of, or (c) cost of an unclassified non-nuclear component in support of a specified or unspecified weapon system | Not UCNI |

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## CHAPTER 5

### OTHER AREAS

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#### 5100 "No Comment" Policy

*NOTE:* The following topic is the basis for the "no comment" policy concerning widely disseminated UCNI documents or material:

5101 Confirmation that a publicly available document or material does or does not contain UCNI (GG #8) **UCNI**

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## ACRONYMS

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CFR - Code of Federal Regulations

DOE - Department of Energy

GG - General Guideline

NEST - Nuclear Emergency Support Team

ICCP - Information Classification and Control Policy, Security Policy Staff, DOE Headquarters

SNM - Special Nuclear Material

UCNI - Unclassified Controlled Nuclear Information

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## DEFINITIONS

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The source of the following definitions is indicated in parentheses after the defined term. If no source is cited, the term is defined here.

**Document or Material:** (10 CFR 1017.3(g)) The physical medium on or in which information is recorded or a product or substance which contains or reveals information, regardless of its physical form or characteristics.

**Essential Information:** Unclassified information whose unauthorized dissemination could significantly increase the likelihood of the illegal production of a nuclear weapon.

**Exploitable Information:** Unclassified information whose unauthorized dissemination could significantly increase the likelihood of the theft, diversion, or sabotage of nuclear material, equipment, or facilities.

**Facility:** (S&S Glossary) An educational institution, manufacturing plant, laboratory, office building, or complex of buildings located on the same site that is operated and protected as one unit by DOE or its contractor(s).

**Government Information:** (10 CFR 1017.3(j)) Any fact or concept, regardless of its physical form or characteristics, that is owned by, produced by or for, or otherwise controlled by the U.S. Government.

**Internal Guideline:** (DOE M 471.1-1) Identifies whether information of interest to the issuing organization is UCNI.

**Nuclear Material:** (S&S Glossary) Special nuclear material, byproduct material, or source material as defined by sections 11aa., 11e. and 11z. respectively, of the Atomic Energy Act or any other material used in the production, testing, utilization, or assembly of nuclear weapons or components of nuclear weapons that the Secretary of Energy determines to be nuclear material under 10 CFR 1017.10(a).

**Sensitive Facility:** A facility which performs or performed a sensitive function.

**Sensitive Function:** (10 CFR 1017.3(b)(1) and (2)) Sensitive functions include the following: (1) Development, production, testing, sampling, maintenance, repair, modification, assembly, utilization, transportation, or retirement of nuclear weapons or components of nuclear weapons; and (2) production, utilization, or transportation of nuclear material for military applications.

**Site:** (S&S Glossary) A geographical area where one or more facilities are located.

**Topical Guideline:** (DOE M 471.1-1) Identifies whether information in a specified technical or program area is UCNI.

**Unclassified Controlled Nuclear Information:** (DOE O 471.1A) Certain unclassified but sensitive Government information concerning nuclear facilities, material, weapons, and components whose dissemination is controlled under section 148 of the Atomic Energy Act.