

Outline of “Fundamental Approach to Ensuring Nuclear Security”, the Report of Advisory Committee on Nuclear Security to Japan Atomic Energy Commission (JAEC)

「核セキュリティの確保に対する基本的考え方」
(原子力委員会／原子力防護専門部会作成)の概要

Toshiro Mochiji

**Director, Department of Nuclear Material
Management for Science and Technology, JAEA**

Purpose

目的

- The present report that shows Japan's fundamental approach to ensuring nuclear security was created, referring to "Fundamentals of a State's Nuclear Security Regime (draft)" that is the highest ranked paper in the IAEA Nuclear Security Series, written to respond to these large changes in conditions concerning nuclear security.

本報告書は、これらの核セキュリティを巡る状況の大きな変化に対応するため、IAEA核セキュリティ・シリーズ文書の最上位文書である核セキュリティ基本文書(案)を参考にして、我が国の核セキュリティの確保に対する基本的考え方を示したものです。

- The Government is expected to consider the improvement of nuclear security measures in Japan and to solidly implement it in accordance with the fundamental approach shown in this report. As nuclear security measures are a part of comprehensive security measures for Japan as a whole, it is also hoped that this report will contribute to deeper awareness regarding Japan's security measures at each level of society.

今後、国において、本報告書に示した基本的考え方に沿って、我が国の核セキュリティ対策が検討され着実に実施されることを期待します。また、核セキュリティ対策は、我が国全体の包括的な安全保障対策の一部となるものです。本報告書が、我が国の安全保障対策に係る国及び国民各層の認識が深化することに寄与することを期待します。

Outline

目次

1. Introduction

はじめに

2. Competent authorities and business involved in nuclear security, and their responsibilities

核セキュリティに関係する行政機関及び事業者とその責任

3. Maintenance of nuclear security system

核セキュリティ体制の維持

4. Security of nuclear materials etc., associated facilities and related activities

核物質等、関連施設及び関連活動の防護

5. Security measures for nuclear materials and other radioactive materials which are out of regulatory control

規制上必要な管理の外にある核物質及びその他の放射性物質への対応

6. Conclusion

おわりに

I . Introduction

はじめに

1. **Necessity and Goals of Maintaining Nuclear Security**
核セキュリティを維持する必要性及び目的
2. **Government's Responsibility for Ensuring Nuclear Security**
核セキュリティの確保に対する国の責任
3. **Matters Covered in Ensuring Nuclear Security**
核セキュリティの確保の対象

II . Competent authorities and business Involved in nuclear security, and their responsibilities

核セキュリティに係る行政機関及び事業者とその責任

1. Roles of Regulatory Bodies

The regulatory bodies should request licensees to determine rules for nuclear security which they comply by themselves, and inspect the content of such rules.

2. Independence of Regulatory Bodies

The regulatory bodies should have appropriate independence from the entities they regulate and from any other administrative bodies.

3. Integration and Coordination of Administrative Bodies

4. Responsibilities of Licensees

Licensees have a prime responsibility for implementation of the nuclear security.

5. Cooperation of Related Administrative Bodies with Licensees

6. Control of Sensitive Information

The regulatory bodies should develop mechanisms to designate the information that should not be disclosed.

II . Competent authorities and business Involved in nuclear security, and their responsibilities (Cont.)

7. Criminalization for the Acts Against Nuclear Security

The Government should define as offenses or violations all criminal or intentional unauthorized acts such as thefts or sabotage. The Government should establish appropriate penalties. The Government should take required measures to establish its jurisdiction over these offenses or violations.

8. Procedures on Responsibility for Nuclear Security in Cases in the Absence of Licensees

The Government should develop procedures to quickly entrust or charge the Government or a designated person with the main responsibility for nuclear security.

9. International Transport

The Government should ensure that nuclear security is solidly implemented in international transport of nuclear material and other radioactive material.

10. International Cooperation and Assistance

The Government should strive to assist countries which want to establish the systems for security. The Government should timely respond to requests for assistance on nuclear security matters.

Ⅲ. Maintenance of Nuclear Security Systems

核セキュリティ体制の維持

1. Systems to Maintain Nuclear Security Systems
核セキュリティ体制の維持のためのシステム
2. Arrangement of Human Resources, Budget and Technical Abilities
人材、予算及び技術的能力の確保
3. Nuclear Security Culture
核セキュリティ文化
4. Demonstration of Leadership
リーダーシップの発揮
5. Countermeasures to Internal Threat
内部脅威対策
6. Handling of Other Issues
その他の課題への対処

IV. Security of Nuclear Materials etc., Associated Facilities and Related Activities

核物質等、関連施設及び関連活動の防護

1. Identification of Threats

Regulatory bodies should identify and assess domestic and foreign threats to nuclear security.

2. Identification of Nuclear Security Objects

Regulatory bodies should assess potential dangers created by identified threats and identify the nuclear materials, related facilities, and related activities.

3. Utilization of Risk Information to Assess the Importance of Nuclear Security Objects

Regulatory bodies should utilize risk information to assess the importance of nuclear security objects.

4. Design of Nuclear Security Measures

a. Regulatory Methods of Nuclear Security Measures

i. Prescriptive-based method

ii. Performance-based method

b. Graded Approach

c. Defense-in-depth Approach

IV. Security of Nuclear Materials etc., Associated Facilities and Related Activities (Cont.)

- d. Review of Nuclear Security Measures**
- e. Design of Nuclear Security Measures for Other Radioactive Materials Using Graded Approach**
- 5. Detection of Nuclear Security Incidents**
 - a. Detection and Communication**
 - b. Measurement and Control**
 - c. Provision of Information to the International Community**
- 6. Licensees' Response Plan to Nuclear Security Incidents**
 - a. Creation of Plans and Development of Systems**
 - b. Implementation of Exercises and Drills and Review of Plans**
- 7. Response Plans of Regulatory Bodies and Related Administrative Bodies to Nuclear Security Incidents**
 - a. Creation of Plans and Development of Systems**
 - b. Shift to Crisis Management Plans**
 - c. Mobilization of Facilities and Staff**
 - d. Coordination and Information Sharing Among Administrative Bodies**
 - e. Conduct of Exercises and Drills and Review of Plans**

V. Security Measures for Nuclear Materials and Other Radioactive Materials Which are Out of Regulatory Control **規制上必要な管理の外にある核物質及びその他の放射性物質への対応**

1. Roles of the Related Administrative Bodies

関係行政機関の役割

2. Detection at Major Public Events or Strategic Locations

大規模イベント及び重要な地点における検知

3. Detection of Nuclear Materials and Other Radioactive Materials for Investigations

核物質及びその他の放射性物質の捜索等における検知

4. Detection in the government's Jurisdiction and its International Borders

国の管轄区域内及び国境における検知

5. Provision of Information to the International Community

国際社会への情報提供

6. Response Plans to Nuclear Security Incidents

核セキュリティ事案への対応計画

VI. Conclusion

おわりに

1. Lessons Learned from the Accident at the Fukushima Dai-ichi Nuclear Power Plant

福島第一原子力発電所事故の教訓

2. Study Concerning Response to the IAEA Recommendation Papers

勧告文書への対応に係る検討