

Content

Title :	Operational Regulations Governing Nuclear Safeguards <b>Ch</b>
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Legislative :	1. 中華民國九十二年九月十日行政院原子能委員會會綜字第 0920023127 號令訂定發布全文 23 條；並自發布日施行
Content :	<p>Operational Regulations Governing Nuclear Safeguards</p> <p>Article 1. This Operational Regulations (hereinafter referred as Regulations) is enacted pursuant to Paragraph 2 of Article 7 of the Nuclear Materials and Radioactive Waste Management Act (hereinafter referred as “the Act”).</p> <p>Article 2. Definitions of terminologies used in this Regulations are as follows:</p> <p>1. Nuclear safeguards materials are classified below:</p> <p>i. Uranium or uranium-containing materials (uranium minerals with a weight percentage of uranium no less than 0.05%).</p> <p>ii. Plutonium or plutonium-containing materials.</p> <p>iii. Thorium or thorium-containing materials (thorium minerals with a weight percentage of thorium no less than 0.05%).</p> <p>iv. Deuterium or deuterium-containing materials.</p> <p>v. Any other materials designated by the competent authorities.</p> <p>2. Effective kilogram, a special unit in weight used in safeguarding nuclear materials of uranium (including enriched uranium, natural uranium, or depleted uranium), plutonium, or thorium, is calculated based on the following computation formulas:</p> <p>i. For uranium with a weight percentage in the uranium-235 isotope of 1% or above, the quantity in effective kilograms is the product of the Uranium weight in kilograms multiplied by the square of the weight percentage in the uranium-235 isotope.</p> <p>ii. For uranium with a weight percentage in the uranium-235 isotope of between 1% and 0.5%, the quantity in effective kilograms is the product of the Uranium weight in kilograms multiplied by 0.0001.</p> <p>iii. For uranium with a weight percentage in the uranium-235 isotope of below 0.5%, the quantity in effective kilograms is the product of the Uranium weight in kilograms multiplied by 0.00005.</p> <p>iv. For uranium containing uranium-233, the computation formulas for effective kilograms are the same as those for uranium-235.</p> <p>v. For plutonium, the quantity in effective kilograms is its weight in kilograms.</p> <p>vi. For thorium, the quantity in effective kilograms is the product of its weight in kilograms multiplied by 0.00005.</p> <p>3. Nuclear safeguards facilities are defined as follows:</p> <p>i. Research, power generation, or other nuclear reactor facilities.</p> <p>ii. Production or storage facilities for nuclear source materials or nuclear fuels; facilities for management, storage, or final disposal of spent fuel.</p> <p>iii. Facilities storing nuclear safeguards materials in excess of one effective kilogram or any other locations designated by the competent authorities.</p> <p>Article 3. International contacts and communications in nuclear safeguards operations shall be conducted by the competent authorities.</p> <p>Article 4. Possession, use, import, export, transit, en route transshipment, transport, storage, disposal, assignment, lease, rental, and pledge-setting of the nuclear safeguards materials described in Item 1 to 3 of Paragraph 1 of Article 2</p>

shall apply with the competent authorities as stipulated by the Regulations for Nuclear Source Fuels Operational Safety Management or Regulations for Nuclear Fuels Operational Safety Management.

Article 5. For possession, use, import, export, transit, en route transshipment, transport, storage, disposal, assignment, lease, rental, pledge-setting of the nuclear safeguards materials not prescribed by the Regulations in the preceding Article, the applicant shall apply for permission with the competent authorities by filling out the application form with attachment of the relevant material and accounting reports. The application form shall consist of the following items:

1. The name and office of the licensee; or the name and residence, in case if the licensee is a natural person.
2. Purposes and methods of the operation
3. Types and quantities of the nuclear safeguards materials.
4. Operation sites of the nuclear safeguards materials.
5. Expected holding periods of the nuclear safeguards materials.
6. Any others designated by the competent authorities.

Article 6. Shall the nuclear safeguards materials being applied according to the preceding Article meet one of the following conditions, the applicant is exempted from submission of the relevant material and accounting reports:

1. Accumulated holding of uranium or materials containing uranium-235 is no more than 0.01 effective kilogram (calculated based on the quantity in effective kilograms for uranium).
2. Accumulated holding of thorium or materials containing uranium-233 is no more than 0.01 effective kilogram (calculated based on the quantity in effective kilograms for thorium).
3. Other conditions specified by the competent authorities.

Article 7. The licensees shall assign units or personnel to be in charge of handling nuclear safeguards materials and material accounting, strictly enforce hand-over procedures, establish accounting and reporting systems, and ensure reconciliation of the material accounting records.

Article 8. The licensees shall submit changes in nuclear safeguards materials at their nuclear safeguards facilities in the preceding month to the competent authorities by filling out relevant reports and forms no later than the fifteenth of each month.

Article 9. The licensees shall fill out the nuclear material balance report according to their material and accounting records twice a year and submit to the competent authorities for reference by January 31 and July 31 every year. When necessary, the competent authorities may require the licensees to verify its inventory.

Article 10. The licensees shall, according to the instructions by the competent authorities, take an inventory on their nuclear safeguards materials every twelve to eighteen months and submit the results to the competent authorities by filling out relevant reports and forms within fifteen days of the inventory-taking date or a deadline set by the competent authorities. The licensees shall follow competent authorities' instruction to apply for an inspection to verify the inventory of the nuclear safeguards materials every twelve to eighteen months, as well as submit the application and confirm with the competent authorities thirty and ten days prior to the scheduled inspection date, respectively. If a physical inventory inspection is requested,

the licensee shall apply ten days before the expected inspection date.

Article 11. The licensees shall, within the designated deadline, submit change in nuclear safeguards materials, inventory-taking results, follow-up reports, and supplementary explanations to the competent authorities.

Article 12. In regard to an international transfer of nuclear safeguards materials, the licensee shall apply for permission with the competent authorities according to the regulations six weeks prior to the scheduled transfer date. For any change in the afore-mentioned transfer, the licensee shall notify the competent authorities immediately and then supplement with detailed written reports.

Article 13. In regard to construction or operation of nuclear safeguards facilities according to Item 1 and 2 of Paragraph 3 of Article 2 in this Regulations, the licensee shall submit the initial design information and questionnaire when applying for the facility construction license and final design information and questionnaire eight months before commencement of the facility operation. In regard to nuclear safeguards facilities prescribed in Item 3 of Paragraph 3 of Article 2 in this Regulations, the licensee shall submit the design information and questionnaire eight months before initial receipt of nuclear safeguards materials.

Article 14. In relation to any change in plan of content in the design information at the nuclear safeguards facilities, the licensee shall apply for reference and review with the competent authorities three months prior to the scheduled implementation of the change.

Article 15. The competent authorities or organizations designated by the competent authorities can install containment, detection, and monitoring equipment and devices at various nuclear safeguards facilities as well as seal nuclear safeguards materials and equipment.

Article 16. When enforcing various inspections and monitoring, inspectors assigned in accordance with Item 1 of Article 7 of this Regulations shall carry with them identity-proving documents before entering various nuclear safeguards facilities and any other sites designated by the competent authorities for execution of nuclear safeguards inspections.

Article 17. The licensee shall appoint special personnel to accommodate inspectors who carry out nuclear safeguards inspections and prepare relevant documents, materials and accounting records, and any other information designated by the competent authorities necessary for the inspections.

Article 18. In regard to the stops and places en route within the nuclear safeguards inspection route passed by the inspector, the units being inspected shall proactively inform in advance radiation conditions and safety concerns regarding the sites as well as provide necessary radiation protection equipment and outfits to the inspector.

Article 19. The licensee shall, within two hours of uncovering a loss in nuclear safeguards materials other than the quantity needed for normal operations, notify the competent authorities and supplement with detailed written reports within thirty days of notification.

Article 20. The licensee is prohibited from removing, turning, cleaning, damaging,

and power cutting of nuclear safeguards equipment installed by the competent authorities or any other organizations designated by the competent authorities. In addition, the licensee is forbidden from covering up lens of the optical monitoring system, thus ensuring a pertinent level of illumination, and shall avoid any man-made related interference in radiation source in the vicinity of radiation detectors installed. Any removal on the seal or action by electrical power providers which would affect the detection and monitoring system shall apply for approval from the competent authorities.

Article 21. The licensee shall, within two hours of detecting a shortfall, damage, or abnormal operation of the nuclear safeguards materials and equipment, notify the competent authorities and supplement detailed written reports within thirty days of notification.

Article 22. When the competent authorities or organizations designated by the competent authorities carry out samplings for inspection on nuclear safeguards materials and the surrounding environment, the licensee shall cooperate in such samplings, packaging, transport, or access/registration into the materials and accounting records. The competent authorities are empowered by law to require the licensees to conduct samplings for inspection on their nuclear safeguards materials and report the results to the competent authorities.

Article 23. This Regulations shall become effective as of the date of promulgation.

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Data Source : Nuclear Safety Commission Laws and Regulations Retrieving System