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## Regulation

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# Regulation for Security of Radioactive Sources (FANR-REG-23) Version 1 2020

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## Preamble

This regulation is issued by the Federal Authority for Nuclear Regulation pursuant to the powers conferred to its Board of Management by Article 11(4) and Article 38(1) of the Federal Law by Decree No. 6 of 2009 Concerning the Peaceful Uses of Nuclear Energy (the Law).

## Definitions

### Article (1)

For the purpose of this regulation, the following terms shall have the meanings set forth below. Other capitalised terms used but not defined herein shall have the meaning ascribed to them in Article 1 of the Law:

<b>Category 1 Source</b>	Radioactive Sources and aggregations of Radioactive Sources that are listed in Schedule A of this regulation as a Category 1 Source.
<b>Category 2 Source</b>	Radioactive Sources and aggregations of Radioactive Sources that are listed in Schedule A of this regulation as a Category 2 Source.
<b>Category 3 Source</b>	Radioactive Sources and aggregations of Radioactive Sources that are listed in Schedule A of this regulation as a Category 3 Source.
<b>Human Force</b>	Any force that can be exerted by a natural person, which could involve the use of non-power assisted instruments and tools.
<b>Sabotage</b>	Any deliberate act directed against a Radioactive Source or any Facility in which a Radioactive Source is located, used, handled or stored, or during transport, that could directly or indirectly endanger the health and safety of Licensee's staff, the public or the environment by exposure to Ionising Radiation or the release of radioactive substances.
<b>Security Breach</b>	Unauthorized acts involving or directed at Category 1 Sources, Category 2 Sources or Category 3 Sources, the associated Facilities, or associated activities, including unauthorised access thereto, theft, loss, unauthorised use, removal or transfer thereof or Sabotage.
<b>Security Plan</b>	An integrated set of measures designed to deter, detect, delay and respond to any Security Breach together with

management measures addressing access control, trustworthiness, information protection, training and qualification, accounting and record-keeping of the Licensee. Each Security Plan shall be developed and submitted to the Authority as part of a Licence application for approval in accordance with the requirements set forth in this regulation.

<b>Transport Security Plan</b>	A plan specifying security requirements relating to any transport within the State of a Category 1 Source, Category 2 Source, or Category 3 Source, which is prepared and submitted to the Authority for approval in accordance with the requirements set forth in this regulation.
<b>Unsealed Radioactive Source</b>	Radioactive Material that is not a permanently sealed in a capsule or closely bonded and in a solid form.

## Scope

### Article (2)

1. This regulation applies to the use, handling, storage and transport of Category 1 Sources, Category 2 Sources and Category 3 Sources, as categorised pursuant to Schedule A of this regulation.
2. This regulation also applies to the import into and export out of the State of Category 1 Sources and Category 2 Sources.
3. Other Radioactive Sources not categorised as Category 1 Sources, Category 2 Sources and Category 3 Sources, shall be protected by the Licensee in accordance with prudent management practice.
4. This regulation does not apply to Unsealed Radioactive Sources.

## Objectives

### Article (3)

1. This regulation establishes the security requirements (including detection, delay and response measures) to be implemented by a Licensee and an applicant for a Licence with the objective to protect the Category 1 Sources, Category 2 Sources and Category 3 Sources from a Security Breach.
2. The security requirements are commensurate with the risks posed by the Radioactive Sources in each category and follow a graded approach. Category 1 Source is considered

to pose the highest risks and it is therefore subject to the most stringent security requirements. The security requirements for Category 2 and Category 3 Radioactive Sources are commensurate with the risks posed by these Radioactive Sources.

## **Security Plan and Transport Security Plan**

### **Article (4)**

1. An applicant for a Licence to use, handle or store a Category 1 Source, Category 2 Source, or Category 3 Source shall develop a Security Plan in accordance with Schedule B and the requirements set forth in this regulation. The applicant for a Licence shall submit such Security Plan to the Authority for approval when submitting the application for a Licence.
2. The applicant for a Licence or the Licensee planning to transport a Category 1 Source, Category 2 Source or Category 3 Source shall develop a Transport Security Plan in accordance with Schedule B and the requirements set forth in this regulation. The Licensee shall submit the Transport Security Plan to the Authority for approval in accordance with Article 8(2) of this regulation.
3. The Licensee shall implement the Security Plan and/ or Transport Security Plan, approved by the Authority and shall identify therein a responsible person, who will interact with the Authority on all matters in relation to this regulation. The responsible person is to be a natural person who either:
  - (a) has the direct management responsibility for the security of the Radioactive Source(s); or
  - (b) has the overall control over who have access the Radioactive Source(s) in accordance with this regulation.
4. The Security Plan and the Transport Security Plan shall be integrated within the Licensee's overall Management System.
5. The Licence applicant and Licensee shall protect the Security Plan and Transport Security Plan from unauthorised access. The applicant for a Licence or the Licensee, as the case may be, shall deliver by hand the Security Plan and Transport Security Plan in a sealed envelope or package to staff from the Radioactive Source Security Section of the Nuclear Security Department of the Authority, or as agreed between the applicant for a Licence or the Licensee, as the case may be, and the Authority.

## **Security System for Radioactive Sources in Use, Handling or Storage**

### **Article (5)**

1. The Licensee shall implement a security system that shall include detection, delay and response measures, to meet the objectives described in Article 3 of this regulation.

2. Detection measures shall be implemented for the discovery and assessment of any attempted or actual Security Breach. Detection measures shall include visual observation, video surveillance, electronic sensors, accountancy records, seals and other tamper indicating devices, and process monitoring systems.
3. Delay measures shall be implemented to impede any attempted or actual Security Breach. Delay is generally achieved through multiple barriers and other physical means such as locked doors, cages, tie-downs and similar barriers.
4. Response measures shall be implemented following detection and assessment of any Security Breach. The Licensee shall make arrangements in accordance with the requirements in Article 10 of this regulation to notify the law enforcement authorities in the State and the Authority of any Security Breach and to submit to the Authority a report thereon.
5. For the Licensee authorised to use, handle or store a Category 1 Source, the security system shall be designed to prevent a Security Breach. The security system shall ensure:
  - a) Immediate detection of an attempted Security Breach;
  - b) Delay of the attempt of Security Breach by using barriers and other physical means to prevent a Security Breach carried out with the application of Human Force as described in Article 5(3) of this regulation;
  - c) Immediate response to an assessed alarm with sufficient resources and capability to interrupt and prevent any Security Breach.
6. For the Licensee authorised to use, handle or store a Category 2 Source, the security system shall be designed to minimise the likelihood of a Security Breach. The security system shall ensure:
  - a) Detection of any attempted Security Breach;
  - b) Delay of the attempt of Security Breach by using barriers and other physical means after detection to minimise the likelihood of any Security Breach carried out with the application of Human Force as described in Article 5(3) of this regulation;
  - c) Immediate response to a Security Breach.
7. For the Licensee authorised to use, handle or store a Category 3 Source, the security system shall be designed to reduce the likelihood of a Security Breach. The security system shall ensure:
  - a) Detection of an actual Security Breach;
  - b) Delay by using barriers and other physical means to minimise the likelihood of an actual Security Breach carried out with the application of Human Force as described in Article 5(3) of this regulation;

- c) Implementation of appropriate response actions in the event of a Security Breach.

## **Security Management for Radioactive Sources in Use, Handling or Storage**

### **Article (6)**

1. The Licensee shall implement security management measures, which address, inter alia, access control, trustworthiness, information protection, training and qualification, accounting and record-keeping detailed in the Security Plan developed in accordance with Article 4 and Schedule B of this regulation.
2. The Licensee shall implement measures to physically control access to a Category 1 Source, Category 2 Source or Category 3 Source to allow such access only to:
  - a) Licensee's staff with a demonstrated need to enter the areas where a Category 1 Source, Category 2 Source or Category 3 Source is located, and to whom the Licensee has provided authorised access.
  - b) Third-party personnel or other individuals with a demonstrated need to enter the areas where a Category 1 Source, Category 2 Source, or Category 3 Source is located and to whom the Licensee has provided authorised access, and other third-party personnel or other individuals with a demonstrated need to enter the areas where a Category 1 Source, Category 2 Source, or Category 3 Source is located provided that such individuals are escorted and/ or observed by one or more Licensee's staff with such authorised access.
3. The Licensee's staff may be only granted authorised access to a Category 1 Source, Category 2 Source, or Category 3 Source after an identity and security background check has been performed by the Licensee and the competent authorities in the State based on the information submitted by the concerned Licensee's staff in accordance with the requirements of Schedule C of this regulation and the Licensee has been informed that the authorised access is granted to the said staff of the Licensee.
4. The Licensee shall ensure that third-party personnel do not gain access to a Category 1 Source, Category 2 Source or Category 3 Source unless they have a legitimate reason to do so. In all such cases, unescorted authorised access to the Radioactive Source may only be granted after an identity and security background check has been performed by the Licensee and the competent authorities in the State in accordance with the requirements of Schedule C of this regulation and the Licensee has been informed that unescorted authorised access is granted to the said personnel of the third-party.
5. The Licensee shall do the following with regard to each Category 1 Source, Category 2 Source and Category 3 Source:

- a) Provide adequate resources (i.e. personnel and funding) to ensure compliance with the requirements set forth in this regulation; and
  - b) Develop policies, procedures, plans and records to ensure compliance with the requirements set forth in this regulation.
6. The Licensee shall obtain approval from the Authority before transferring a Category 1 Source, Category 2 Source, or Category 3 Source to other Licensee.
  7. The Licensee shall establish and maintain an effective security culture and Safety culture at all levels of its staff and management, with the said culture being based on the principles of a questioning attitude, rigorous and prudent approaches to prudent management and guidelines, and encouraging open communication between all levels of its staff and management.
  8. The Licensee shall design and implement Safety measures and security measures in an integrated manner so that they do not compromise each other.
  9. The Licensee shall cooperate with and assist the law enforcement authorities and other concerned authorities in the State to locate and recover a Category 1 Source, Category 2 Source or Category 3 Source that has been stolen, lost or unlawfully removed from the Licensee's Facility.

### **Security System for Radioactive Sources in Transport**

#### **Article (7)**

1. The Licensee shall implement a security system for Category 1 Sources, Category 2 Sources, and Category 3 Sources in transport, which shall include detection, delay and response measures as described in Article 5(2), Article 5(3) and Article 5(4) of this regulation, in order to meet the objectives of Article 3 of this regulation.
2. During transport, a Category 1 Source shall be protected at a minimum by physical security measures capable of providing sufficient delay to allow immediate detection and assessment of the Security Breach carried out with the application of Human Force, and to allow for a guard or the law enforcement authorities in the State to interrupt the Security Breach.
3. During transport, a Category 2 Source shall be protected at a minimum by physical security measures capable of providing sufficient delay to allow immediate detection of the Security Breach carried out with the application of Human Force, and to initiate an immediate response to a Security Breach.
4. During transport, a Category 3 Source shall be protected at a minimum by physical security measures capable of preventing the Security Breach carried out with the application of Human Force.



5. The Licensee shall integrate engine immobilisation technology to Category 1 Source, Category 2 Source, and Category 3 Source transport vehicles.
6. The Licensee shall make available to the Authority Category 1 Source transport vehicles for the purpose of a Regulatory Inspection prior to the approval of the associated Transport Security Plan.
7. The Licensee shall make available to the Authority Category 2 Source or Category 3 Source transport vehicle for the purpose a Regulatory Inspection at the timeframe designated by the Authority.

### **Security Management for Transportation**

#### **Article (8)**

1. The Licensee authorised to transport Radioactive Sources shall implement security management measures addressing access control, trustworthiness, information protection, training and qualification, accounting and record keeping detailed in the Transport Security Plan developed in accordance with Article 4 and Schedule B of this regulation.
2. The Licensee planning to transport a Category 1 Source shall submit a Transport Security Plan to the Authority for approval thirty (30) business days prior to the proposed date of the transport containing a Category 1 Source. The actual transport shall not take place until the approval of the associated Transport Security Plan has been received from the Authority.
3. The Licensee shall notify the Authority at least three (3) business days prior to the proposed date and time of the transport of a Category 1 Source once the associated Transport Security Plan has been approved by the Authority. The Licensee shall only undertake the transport after receiving approval from the Authority of the transport.
4. The Licensee planning to transport a Category 2 Source or Category 3 Source shall submit a Transport Security Plan to the Authority for approval at least seven (7) business days prior to the proposed date of transport. The actual transport shall not take place until the approval of the associated Transport Security Plan has been received from the Authority.
5. The Licensee shall notify the Authority at least 24 hours before the proposed date and time of transport of a Category 2 or Category 3 Source once the Transport Security Plan has been approved by the Authority.
6. The Licensee shall implement measures to physically control access to any Category 1 Source, Category 2 Source or Category 3 Source during transport to allow such access only to:



- a) Licensee's staff with a demonstrated need to access the areas of the vehicle where a Category 1 Source, Category 2 Source, or Category 3 Source is located, and to whom the Licensee has provided authorised access.
  - b) Third-party personnel or other individuals with a demonstrated need to access the areas of the vehicle where a Category 1 Source, Category 2 Source, or Category 3 Source is located and to whom the Licensee has provided authorised access, and other third-party personnel or other individuals with a demonstrated need to access the areas where a Category 1 Source, Category 2 Source, or Category 3 Source is located provided that such persons are escorted and/ or observed by one or more Licensee's staff with such authorised access.
7. All Licensee staff may only be granted authorised access to a Category 1 Source, Category 2 Source or Category 3 Source once an identity and security background check has been performed by the Licensee and the competent authorities in the State based on information submitted by the concerned Licensee's staff in accordance with the requirements of Schedule C of this regulation and the Licensee has been informed that that authorised access is granted to the said staff of the Licensee.
  8. The Licensee shall also ensure that third-party personnel do not gain unescorted authorised access to a Category 1 Source, Category 2 Source, or Category 3 Source whilst in transport unless they have a legitimate reason to do so. In all such cases, unescorted authorised access to the Radioactive Source may only be granted after an identity and security background check has been performed by the Licensee and the competent authorities in the State in accordance with the requirements of Schedule C of this regulation and the Licensee has been informed that authorised access is granted to the said personnel of the third-party.
  9. The Licensee shall establish and maintain an effective security culture and Safety culture at all levels of its staff and management, with the said culture being based on the principles of a questioning attitude, rigorous and prudent approaches to prudent management and guidelines, and encouraging open communication between all levels of its staff and management.
  10. The Licensee shall design and implement Safety measures and security measures in an integrated manner so that they do not compromise each other.
  11. Response measures shall be implemented following detection of any Security Breach. Licensees shall make arrangements in accordance with the requirements in Article 10 of this regulation to notify the law enforcement authorities in the State and the Authority of any Security Breach during transport and to submit to the Authority a report thereon.
  12. The Licensee shall implement measures to precisely locate, and limit the movements within predefined geographic areas of Category 1 Source, Category 2 Source or Category 3 Source transport vehicles.

13. The Licensee shall cooperate with and assist the law enforcement authorities and other concerned authorities in the State to locate and recover any Category 1 Source, Category 2 Source, or Category 3 Source that has been stolen, lost or removed whilst in transport.

### Procedural Security Measures

#### Article (9)

1. The Licensee authorised to conduct a Regulated Activity involving a Category 2 Source or Category 3 Source shall comply with the procedural security requirements listed in Table 1 below.
2. The Licensee authorised to conduct a Regulated Activity involving a Category 1 Source shall comply with the procedural security requirements listed in Table 1 below, and shall also:
  - a) Engage in exercises and drills on a yearly basis with the law enforcement authorities, authorities responsible for emergency, crisis and disaster management and other concerned authorities in the Emirate of the State, in which the Licensee is located in order to coordinate response to potential Security Breaches and report to the Authority the findings of the exercises and drills;
  - b) Review Licensee's staff and third-party personnel authorisation of access every six (6) months;
3. The Licensee shall review and revise accordingly the Security Plan and/ or Transport Security Plan as specified in the Table 1 below or as directed by the Authority.

**Table 1 – Procedural Security Requirements**

Weekly	The Licensee shall: <ul style="list-style-type: none"> <li>• Confirm that the Category 1 Sources, Category 2 Sources, or Category 3 Sources are present</li> </ul>
Biannually	<ul style="list-style-type: none"> <li>• Review staff authorisation access to Category 1 Sources</li> </ul>
Yearly	<ul style="list-style-type: none"> <li>• Review the Security Plan, and revise it as appropriate</li> <li>• Review the Transport Security Plans and revise them as appropriate (applicable to the Licensee that transport a Category 1 Source, Category 2 Source, or Category 3 Source)</li> <li>• Review Security Breaches, event assessment and communication measures</li> <li>• Review access controls and physical barriers</li> <li>• Review staff authorisation access to Category 2 Sources and Category 3 Sources</li> </ul>

	<ul style="list-style-type: none"> <li>• Conduct staff security awareness briefing</li> <li>• Conduct an audit of the use and movement of any Category 1 Source, Category 2 Source, or Category 3 Source</li> </ul>
As needed	<ul style="list-style-type: none"> <li>• Conduct staff induction on security awareness</li> <li>• Conduct event specific reviews of staff authorisation access</li> <li>• Conduct event specific staff security awareness briefing</li> <li>• Sign in visitors and escort them while inside the 'secure area' as defined in the Security Plan</li> </ul>

## Notification of a Security Breach

### Article (10)

1. The Licensee authorised to conduct a Regulated Activity involving a Radioactive Source shall notify the law enforcement authorities in the Emirate of the State in which the Licensee is located and the Authority as soon as possible, but not later than four (4) hours thereafter in the case of any of the following in relation to a Category 1 Source, Category 2 Source or Category 3 Source:
  - a) Theft;
  - b) Loss;
  - c) Unauthorised access;
  - d) Unauthorised use, removal or transfer;
  - e) Sabotage.
2. The notification made in accordance with Article 10(1) of this regulation shall include details of the following:
  - a) Circumstances of the Security Breach;
  - b) Steps taken or proposed to be taken to address the Security Breach;
  - c) In a situation where the Radioactive Source has been lost or stolen, information relating to the Radioactive Source, including its identification number and any information that might assist in the recovery of such Radioactive Source.
3. In the event of a unsuccessful Security Breach, the Licensee shall notify the Authority within 24 hours that a Security Breach has occurred and shall provide the following:
  - a) The circumstances of the attempted Security Breach;
  - b) Steps taken or proposed to be taken to address the attempted Security Breach.

4. Following the initial notification as described in Article 10(1) and Article 10(3) of this regulation, the Licensee shall also submit to the Authority a written report on the Security Breach as detailed in this Article 10 within seven (7) calendar days of the date of the notification.

## **Import and Export of Radioactive Sources**

### **Article (11)**

1. A Person intending to import into or export out of the State a Category 1 or Category 2 Source shall apply to the Authority for a Licence.
2. An applicant for a Licence shall develop a Security Plan consistent with the requirements of paragraph 2 of Schedule B for approval in accordance with the timeline specified in Article 8 of this regulation.
3. The Licensee shall obtain the approval of the Authority prior to each import and export of Category 1 Source or Category 2 Source. Information related to the import or the export of Category 1 Source or Category 2 Source (including the name of the recipient, the recipient's location and relevant licence and information on the contractual arrangements relating to the import or export) shall be submitted at the same time as the related Security Plan submitted for the Category 1 Source or Category 2 Source, following the timeline set forth in Article 8(2) and Article 8(4) of this regulation.
4. The responsible person identified in the Transport Security Plan in accordance with Article 4(3) of this regulation, will interact with the Authority on all matters in relation to the import or export of the Category 1 or 2 Source.

## **Accountancy and Records**

### **Article (12)**

1. The Licensee authorised to conduct a Regulated Activity involving a Category 1 Source, Category 2 Source or Category 3 Source shall be aware of and accountable for the location of that Radioactive Source at all times.
2. The Licensee authorised to conduct a Regulated Activity involving a Radioactive Source shall maintain records for such Radioactive Source, which shall include the following information:
  - a) the location, serial number or identification number of the Radioactive Source;
  - b) a copy of the Radioactive Source certificate or other certification;
  - c) the physical and chemical composition of the isotope in the Radioactive Source;

- d) name and contact details of the Radioactive Source manufacturer and Radioactive Source model;
- e) the activity and date of measurement of the activity of the Radioactive Source;
- f) import, export, transfer, or change in location (within or between premises of the Licensee) of the Radioactive Source in the previous twelve (12) months;
- g) reference of the relevant Licence authorizing the conduct of the Regulated Activity involving such Radioactive Source.

### **Entry into Force**

#### **Article (13)**

This regulation shall be published in the Official Gazette and shall enter into force one (1) month following the date of its publication in the Official Gazette.

## SCHEDULE A - Categorisation of Radioactive Sources

The requirements established for the security of Radioactive Sources shall follow a graded approach. The stringency of the security measures depends on the nature of the Radioactive Source and is proportional to the potential of the Radioactive Source or aggregation of Radioactive Sources being licensed to cause harm if used for malicious purposes, and the consequences of a Security Breach involving such Radioactive Source. This regulation uses the categorisation of Radioactive Sources as included in IAEA's *Safety Standards, Categorization of Radioactive Sources, Safety Guide No. RS-G-1.9*.

Table A-1 below shows typical Radioactive Sources as well as typical radionuclides and their activities by category. The Licensee using radionuclides not shown in Table A-1 shall determine the categories of their sources using the IAEA TECDOC 1344, *Categorisation of Radioactive Sources* (July 2003).

**Table A-1 Categorisation of Radioactive Sources by Activity**

Category	Typical Radioactive Sources	Typical Radionuclides and their Activities in TBq	
1	<ul style="list-style-type: none"> <li>Radioisotope thermoelectric generators (i.e. RTGs)</li> <li>Irradiators</li> <li>Teletherapy sources</li> <li>Fixed, multi-beam teletherapy (gamma knife) sources</li> </ul>	Co-60 Sr-90 Cs-137 Pu-238	> 3.0E+01 > 1.0E+03 > 1.0E+02 > 6.0E+01
2	<ul style="list-style-type: none"> <li>Industrial gamma radiography sources</li> <li>High/ medium Dose rate brachytherapy sources</li> </ul>	Co-60 Sr-90 Cs-137 Ir-192 Pu-238	3.0E-01 to 3.0E+01 1.0E+01 to 1.0E+03 1.0E+00 to 1.0E+02 8.0E-01 to 8.0E+01 6.0E-01 to 6.0E+01
3	<ul style="list-style-type: none"> <li>Fixed industrial gauges that incorporate high activity sources</li> <li>Well-logging gauges</li> </ul>	Co-60 Sr-90 Cs-137 Pu-238 Am-241/Be Cf-252	3.0E-02 to 3.0E-01 1.0E+00 to 1.0E+01 1.0E-01 to 1.0E+00 6.0E-02 to 6.0E-01 6.0E-02 to 6.0E-01 2.0E-02 to 2.0E-01

## **SCHEDULE B - Security Plans and Transport Security Plans**

1. A Security Plan for any Category 1 Source, Category 2 Source or Category 3 Source shall include:
  - a) A description of the Radioactive Source including details such as the type of isotope, its activity (including the date of measurement), serial number or identification number, and physical and chemical form;
  - b) A description of the radiation practice for which the Radioactive Source is used, and the categorisation of the Radioactive Source as set out in Schedule A of this regulation;
  - c) A description of the specific location (building, etc.) within the Facility where the Radioactive Source is to be used or stored or handled;
  - d) A plan of the building or location within the Facility in which the Radioactive Source is used, stored or handled including the security system used to protect it and a definition of the secure area in the Facility;
  - e) A plan for developing and maintaining an effective Safety Culture and security culture within the Licensee's staff and third-party personnel;
  - f) Allocation of security responsibilities to competent and qualified persons with appropriate authority to carry out those responsibilities under the Licensee's responsibility;
  - g) A description of the security system to protect the Radioactive Source(s), which will be used to implement the requirements of this regulation;
  - h) A description of the following security measures that will be used to meet the objectives for:
    - 1) Access control,
    - 2) Control of keys,
    - 3) Surveillance by closed circuit television (CCTV),
    - 4) Surveillance of personnel,
    - 5) Identity checks and security background checks of Licensee's staff and third-party personnel,
    - 6) Records and inventory related to the management of a Category 1 Source, Category 2 Source, or Category 3 Source,
    - 7) Information security measures,





- 8) Procedures to be followed before, during and after a technical service such as but not limited to maintenance or Radioactive Source replacement,
  - 9) Contingency plan and security response arrangements including the notification of a Security Breach to the relevant authorities as specified in Article 10 of this regulation,
  - 10) Arrangements for review and revision of the Security Plan;
  - 11) Training and security awareness plans for the Licensee's staff and third-party personnel.
2. A Transport Security Plan for Category 1 Source, Category 2 Source or Category 3 Source shall include:
- a) A description of the Radioactive Source(s) to be transported including: the type of isotope, its activity (including date of measurement), physical and chemical form, serial number or identification number, the transport packaging and the categorisation of the Radioactive Source as set out in Schedule A of this regulation;
  - b) A description of the radiation practice for which the Radioactive Source is being transported;
  - c) A description of the conveyance in which the Radioactive Source(s) will be transported and the arrangements for securing the shipment during trans-shipment or other stops 'en-route';
  - d) Allocation of responsibilities for security to competent and qualified persons with appropriate authority to carry out those responsibilities;
  - e) The name, address and business, and after hours contact details for the consignor, consignee, carrier and, where relevant guard or law enforcement authorities in the State;
  - f) A description of the specific security concerns to be addressed for example, potential theft or Sabotage, or mechanical or electronic failure of a physical security measure;
  - g) A description of the physical security measures that shall be used to address the security concerns and implement the requirements of this regulation.
  - h) A description of the procedural security measures that shall be used to address the security concerns and implement the requirements of this regulation such as:
    - 1) Arrangements for the prior notification to the relevant authorities in an Emirate in the State (i.e. law enforcement authorities and/ or the Authority) in which a Category 1 Source, Category 2 Source, or Category 3 Source will be transported in accordance with this regulation,

- 2) Contingency or Emergency procedures for vehicle accidents or breakdown, and a planned principal route and an alternative route for a Category 1 Source,
  - 3) Security response arrangements including notifying the relevant authorities of a Security Breach as specified in Article 10 of this regulation,
  - 4) Security briefings for individuals involved in transporting a Category 1 Source, Category 2 Source, or Category 3 Source including the nature of any threats, and contingency and security response arrangements,
  - 5) Identity checks and security background checks of Licensee's staff and third-party personnel, as specified in Schedule C of this regulation;
  - 6) Information security measures;
  - 7) Means of communication between parties involved in the transportation of a Category 1 Source, Category 2 Source, or Category 3 Source,
  - 8) Arrangements for review and revision of the Transport Security Plan and the maximum time between reviews,
  - 9) Training and security awareness plans for the Licensee's staff and third-party personnel.
- i) Confirmation that for Category 1, Category 2 or Category 3 Source being transported within the State, the Licensee will also comply with the requirements of the Authority's Regulation for the Safe Transport of Radioactive Materials (FANR-REG-13), as revised.

## SCHEDULE C - Identity Check and Security Background Check

### 1. Identity Check

- a) The identity of each individual to whom the Licensee intends to grant access to a Category 1 Source, Category 2 Source, or Category 3 Source in accordance with Article 6 and Article 8 of this regulation shall be verified by the Licensee by:
- 1) Reviewing the original identity documents in accordance with section 1(b) of this schedule;
  - 2) Confirming employment history, education and personal referees;
  - 3) Obtaining at least one reference from an independent source of information to corroborate the information provided by the individual (for example, seek independent references to those supplied by the individual).
- b) Each individual to whom a Licensee intends to grant access to a Category 1 Source, Category 2 Source or Category 3 Source in accordance with Article 6 and Article 8 of this regulation shall provide to the Licensee one original document from Table C-1, and one original document from Table C-2 below. The Licensee shall retain copies of the documentation referred to in this schedule and shall promptly provide such documentation to the Authority upon request.

**Table C-1 Primary Identity Document**

A current UAE passport
A current foreign passport and any applicable visa
Emirates ID Card
Other _____

**Table C-2 Secondary Identity Document**

A current driver's licence issued by an Emirate within the UAE, which has a photograph
UAE Labour Card
Other: _____

### 2. Security Background Check

In addition to the identity check detailed above, each individual to whom a Licensee intends to grant access to a Category 1 Source, Category 2 Source or Category 3 Source shall undergo a security background check as indicated in Table 1 of Article 9 of this regulation, or as otherwise required by the Authority. The security background check shall include a security assessment and criminal history check run by the competent authorities in the State.