

Australian Government



The Code of Conduct on the Safety and Security of Radioactive Sources: past, present and future

Steve McIntosh & Kirsten Cutler



Australian Government



Part I – History of the Code

History

IAEA-TECDOC-1045



Safety of radiation sources and security of radioactive materials Contributed papers

Conference held in Dijon, France, 14-18 September 1998

Jointly sponsored by the International Atomic Energy Agency, the European Commission, the International Criminal Police Organization and the World Customs Organization





IAEA

INTERNATIONAL ATOMIC ENERGY AGENCY

29-50

1998

International undertakings: Action



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International Atomic Energy Agency

BOARD OF GOVERNORS

ACTION PLAN FOR THE SAFETY OF RADIATION SOURCES AND THE SECURITY OF RADIOACTIVE MATERIALS

THE INTERNATIONAL CONFERENCE OF NATIONAL REGULATORY AUTHORITIES WITH COMPETENCE IN THE SAFETY OF RADIATION SOURCES AND THE SECURITY OF RADIOACTIVE MATERIALS: IMPLICATIONS OF ITS MAJOR FINDINGS FOR THE ACTION PLAN

BACKGROUND

1. In September 1998, following an assessment of the major findings of the first International Conference on the Safety of Radiation Sources and the Security of Radiactive Materials, held in Dijon, France, from 14 to 18 September 1998 (the Dijon Conference), the Agency's General Conference (in resolution GC(42)/RES/12) - inter alia - encouraged all governments "to take steps to ensure the existence within their territories of effective national systems of control for ensuring the safety of radiation sources and the security of radioactive materials" and requested the Secretariat "to prepare for the consideration of the Board of Governors a report on:

- (i) how national systems for ensuring the safety of radiation sources and the security
 of radioactive materials can be operated at a high level of effectiveness and
- (ii) whether international undertakings concerned with the effective operation of such systems and attracting broad adherence could be formulated".
- In February 1999, the Secretariat submitted to the Board a report prepared in response to the request made of it by the General Conference. The report was taken up by the Board at its

International undertakings: Code of conduct

GOV/2000/34-GC(44)/7 Attachment 7 Annex page 1

Code of Conduct on the Safety and Security of Radioactive Sources

The IAEA's Member States

Noting that radiation sources are used throughout the world for a wide variety of beneficial purposes, e.g. in industry, medicine, research, agriculture and education,

Aware that their use involves risks due to radiation exposure,

Aware that these risks must be restricted and protected against through the application of appropriate radiation safety standards,

Aware that there have been a number of accidents with serious, even fatal, consequences during the use of radiation sources,

Recognizing that such accidents may have an adverse impact on individuals and on the environment,

Recognizing the importance of fostering a safety culture in all organizations and among all individuals engaged in the regulatory control or in the management of radiation sources,

Recognizing the need for effective and continuous regulatory control, both within States and in situations involving the transfer of radiation sources between States,

Noting that serious accidents have occurred during the use of radiation sources, in particular radioactive sources, as a result of ineffective, or lapses in the continuity of, regulatory control, or as a result of lapses in management control during extended periods of storage,

Recognizing that most of these accidents have been caused by the use of radioactive sources, including accidents involving orphan sources,

<u>Recognizing</u> that a number of States may lack appropriate infrastructure for the safe management of radioactive sources, and that consequently exporting States should take due care in authorizing exports,

Objective:

"To achieve and maintain a high level of safety and security of radioactive sources through the development, harmonization and enforcement of national policies, laws and regulations and through the fostering of international co-operation."

2000 Code - security

- Range of provisions of 2000 Code were relevant to maintaining control over sources
- Some of those provisions explicitly referred to needs of "security"
- Focus very much on incidents such as persons stealing shiny objects for scrap metal resale
- No consideration given at that time to possible use of sources in RDDs

2000: Actions by Agency's governing bodies





September 11, 2001

The path forward



QUESTIONNAIRE ON THE CODE OF CONDUCT ON THE SAFETY AND SECURITY OF RADIOACTIVE SOURCES

PART	Page
PART 1: ADMINISTRATION OF THE CODE	1
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PART 4: OVERALL IMPACT & GENERAL QUESTIONS	7

Please complete and return the questionnaire by 24 June to:

Source Safety Unit Room B0777 International Atomic Energy Agency Wagrammer Strasse 5 P.O. Box 100 A-1400 Vienna, Austria

A copy of the questionnaire, in Word 2000, is enclosed on a diskette for the convenience of those Member States that wish to complete and return the form electronically.

Any queries relating to this questionnaire can be directed to:

John Wheatley tel: +43 1 2600 22667 fax:+43 1 26007 21267

Part II – Efforts to Strengthen the Code Following 9-11

Post September 11, 2001: Addressing the "Dirty Bomb" Threat



Kirsten Cutler, Ph.D. U.S. Department of State International Security & Nonproliferation Office of Nuclear Energy, Safety & Security

Security environment following the events of September 11, 2001

- Radioactive sources, primarily a safety concern in past, now considered a security risk
- A "dirty bomb" could
 - incite widespread panic
 - cause illness and increase cancer risk
 - o contaminate large areas
 - o result in evacuations
 - severely disrupt the economy
- Shift in international nuclear security efforts to include radioactive materials

Radiological security gains attention



Nuclear experts warned lawmakers that American cities are not prepared to deal with the impact of radiological weapons, or "dirty bombs." (ABCNEWS.com)

Weapons of 'Mass Disruption'

Experts Warn Lawmakers of Vulnerability to 'Dirty Bombs'

WASHINGTON, March 6 — Nuclear experts told Congress today that terrorists are not just interested in weapons of mass destruction they are also seeking weapons of mass disruption — weapons, that might kill no one but would create widespread psychological trauma.

In testimony before the Senate Foreign Relations Committee, the



Radioisotope thermoelectric generators



Medical teletherapy





Sterilization & food

preservation



Industrial radiography

Challenges – used worldwide for peaceful

purposes

Widespread vulnerable and orphan sources



Past radiological incidents

FIG.9.4. Detailed view of the bed of an deep ulcer after partial resection. The blackening of surrounding tissue, fat necrosis and skin suffering are clear indications of poor evolution of this injury.

Improving international standards

- In 2002-2003, the IAEA carried out a number of technical meetings to revise the Code of Conduct to more adequately address security concerns
- Code contains non-legally binding guidance for life-cycle control of radioactive sources
- Revised Code was approved by IAEA Board of Governors in 2003 and published in 2004.

CODE OF CONDUCT ON THE SAFETY AND SECURITY OF RADIOACTIVE SOURCES

放射源安全和保安行为准则

CODE DE CONDUITE SUR LA SÛRETÉ ET LA SÉCURITÉ DES SOURCES RADIOACTIVES

КОДЕКС ПОВЕДЕНИЯ ПО ОБЕСПЕЧЕНИЮ БЕЗОПАСНОСТИ И СОХРАННОСТИ РАДИОАКТИВНЫХ ИСТОЧНИКОВ

CÓDIGO DE CONDUCTA SOBRE SEGURIDAD TECNOLÓGICA Y FÍSICA DE LAS FUENTES RADIACTIVAS

مدونة قواعد السلوك بشأن أمان المصادر المشعة وأمنها

The IAEA Code of Conduct on the Safety and Security of Radioactive Sources

onal regulatory infrastructures	at specify requirements for:
Nationa	that s

 physical protection of materials

- access controls
- national registries
- training
- notification requirements
- orphan source recovery
- import/export guidelines
- emergency planning
- inspections / enforcement

TABLE I. ACTIVITIES CORRESPONDING TO THRESHOLDS OF CATEGORIES

Radiomuclida	Cate	Category 1		pory 2	Category 3	
	1000 x D		10 x D		D	
	(TBq)	(Ci) ^a	(TBq)	(Ci) ^a	(TBq)	(Ci) ^a
Am-241	6.E+01	2.E+03	6.E-01	2.E+01	6.E-02	2.E+00
Am-241/Be	6.E+01	2.E+03	6.E-01	2.E+01	6.E-02	2.E+00
Cf-252	2.E+01	5.E+02	2.E-01	5.E-00	2.E-02	5.E-01
Cm-244	5.E+01	1.E+03	5.E-01	1.E+01	5.E-02	1.E+00
Co-60	3.E+01	8.E+02	3.E-01	8.E+00	3.E-02	8.E-01
Cs-137	1.E+02	3.E+03	1.E+00	3.E+01	1.E-01	3.E+00
Gd-153	1.E+03	3.E+04	1.E+01	3.E+02	1.E+00	3.E+01
lr-192	8.E+01	2.E+03	8.E-01	2.E+01	8.E-02	2.E+00
Pm-147	4.E+04	1.E+06	4.E+02	1.E+04	4.E+01	1.E+03
Pu-238	6.E+01	2.E+03	6.E-01	2.E+01	6.E-02	2.E+00
Pu-239 ^b /Be	6.E+01	2.E+03	6.E-01	2.E+01	6.E-02	2.E+00
Rs-226	4.E+01	1.E+03	4.E-01	1.E+01	4.E-02	1.E+00
Se-75	2.E+02	5.E+03	2.E+00	5.E+01	2.E-01	5.E+00
St-90 (Y-90)	1.E+03	3.E+04	1.E+01	3.E+02	1.E+00	3.E+01
Tm-170	2.E+04	5.E+05	2.E+02	5.E+03	2.E+01	5.E+02
Yb-169	3.E+02	8.E+03	3.E+00	8.E+01	3.E-01	8.E+00
Au-198*	2.E+02	5.E+03	2.E+00	5.E+01	2.E-01	5.E+00
Cd-109*	2.E+04	5.E+05	2.E+02	5.E+03	2.E+01	5.E+02
Co-57*	7.E+02	2.E+04	7.E+00	2.E+02	7.E-01	2.E+01
Fe-55*	8.E+05	2.E+07	8.E+03	2.E+05	8.E+02	2.E+04
Ge-68*	7.E+02	2.E+04	7.E+00	2.E+02	7.E-01	2.E+01
Ni-63*	6.E+04	2.E+06	6.E+02	2.E+04	6.E+01	2.E+03
Pd-103*	9.E+04	2.E+06	9.E+02	2.E+04	9.E+01	2.E+03
Po-210*	6.E+01	2.E+03	6.E-01	2.E+01	6.E-02	2.E+00
Ru-105 (Rh-106)*	3.E+02	8.E+03	3.E+00	8.E+01	3.E-01	8.E+00
TI-204*	2.E+04	5.E+05	2.E+02	5.E+03	2.E+01	5.E+02

* These radiounclides are very unlikely to be used in individual radioactive sources with activity levels that would place them within Categories 1, 2 or 3 and would therefore not be subject to the paragraph relating to national registries (11) or the paragraphs relating to import and export control (23 to 26).

Building International Support – IAEA General Conference

General Conference

GC(47)/RES/7 Date: September 2003

General Distributio

Forty-seventh regular session Item 13 of the agenda (GC(47)/21)

> Measures to Strengthen International Co-operation in Nuclear, Radiation and Transport Safety and Waste Management

> Resolution adopted on 19 September 2003 during the tenth plenary meeting

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Measures to Strengthen International Co-operation in Nuclear, Radiation and Transport Safety and Waste Management

The General Conference,

(a) <u>Recalling</u> resolution GC(46)/RES/9 on measures to strengthen international co-operation in nuclear, radiation, transport and waste safety,

(b) <u>Recognizing</u> that a global moclear, radiation and wasts safety culture is a key element of the peaceful uses of nuclear energy and that continuous efforts are required in order to ensure that the technical and human elements of safety are maintained at the optimal level,

(c) <u>Stressing</u> the important role of the IAEA in enhancing nuclear, radiation and waste safety through its various safety programmes and initiatives and in promoting international co-operation in this regard,

(d) <u>Reiterating</u> the importance of Member States taking the necessary steps to develop and improve their national nuclear, radiation and waste safety legal infrastructures,

(e) <u>Noting with appreciation</u> documents GC(47)/INF/3 and GC(47)/INF/4 (with its Addenda), containing the Secretariat's responses to nuclear, radiation, transport and waste safety issues of concern to Member States,

(f) <u>Noting</u> that the Agency is organizing an International Conference on the Protection of the Environment from the Effects of Ionizing Radiation in Stockholm from 6 to 10 October 2003, 2003 Resolution GC(47)/RES/7 calls for States to make a political commitment to follow Code:

"...urges each State to write to the Director General that it...is working toward following the guidance contained in the IAEA Code of Conduct..."

Building International Support – G8 Evian Summit

2003 G8 SUMMIT, EVIAN G8 Statement (excerpts)

We commit ourselves to employing high standards that reduce the vulnerability of radioactive sources to acquisition by terrorists.

We urge all countries to take measures to strengthen regulatory control of high-risk sources within their territories.

The Group of Eight will:

- Encourage all countries to strengthen controls on radioactive sources and observe the Code of Conduct when the revisions to it have been completed and approved.
- Enhance international co-operation on locating, recovering, and securing high-risk radioactive sources.
- Support and advance the IAEA's programs... to promote the implementation of the Code of Conduct...

Development of Export Controls: efforts to improve the security of sources transferred across borders

- In 2003-2004, the IAEA began development of international export control guidelines for radioactive sources.
- Security of these transfers were of concern because they were not being tracked and countries were often unaware that large sources had entered their territories.
- There was minimal evaluation of whether the recipient was licensed to possess the sources and whether the receiving State had adequate controls.
- While Code contained general export provisions, States requested specific guidelines so that these transactions were carried out in a harmonized fashion.

G-8 and EU Support

• Development of export control guidelines received considerable political backing at the G-8 Sea Island and the U.S.-EU Shannon Summits.

• Leaders endorsed the guidelines and announced their intention to put them in place by the end of 2005.

2004 G8 SUMMIT (Sea Island) – excerpt

We have agreed to export and import control guidance for highrisk radioactive sources, which should only be supplied to authorized end-users in states that can control them.

We seek prompt IAEA approval of this guidance to ensure that effective controls are operational by the end of 2005 and applied in a harmonized and consistent manner.

We support the IAEA's program for assistance to ensure that all countries can meet the new standards.

Guidance on the Import and Export of Radioactive Sources

- In 2004, the non-legally binding Guidance was approved by the IAEA Board of Governors; it was published in 2005.
- Represents the first international export control framework for radioactive sources.
- An important step forward in preventing theft and diversion of materials being transferred across borders.

Applies to Category 1 and 2 sealed sources

GUIDANCE ON THE IMPORT AND EXPORT OF RADIOACTIVE SOURCES

放射導的进口和出口导制

ORIENTATIONS POUR L'IMPORTATION ET L'EXPORTATION DE SOURCES RADIOACTIVES

РУКОВОДЯЩИЕ МАТЕРИАЛЫ ПО-ИМПОРТУ И ЭКСПОРТУ РАДИОАКТИВНЫХ ИСТОЧНИКОВ

DIRECTRICES SOBRE LA IMPORTACIÓN Y EXPORTACIÓN DE FUENTES RADIACTIVAS

AEA

Adoption of export controls

gurations, which is provint suant to 44 U.S.C. 1510. Code of Federal Regulations is sold by ne Code or Pederal Hegulations is gold by e Superintendent of Documents. Prices of w books are listed in the first FEDERAL GISTER issue of each week.

NUCLEAR REGULATORY COMMISSION 10 CFR Part 110 Export and Import of Radioactive RIN 3150-AH44 Materials: Security Policies AGENCY: Nuclear Regulatory Commission. SUMMARY: The Nuclear Regulatory Commission (NRC) is amending its regulations pertaining to the export and aport of radioactive materials. The ACTION: Final rule emport of radioactive materials. The mendments implement recent changes the nuclear and radioactive material curity policies of both the mission and the Executive Branch.

REGISTER

DATES: This final rule becomes effective December 28, 2005, to allow a period on December 28, 2005, to allow a J of six months for exporters and importers to apply for and receive required specific export and import ADDRESSES: Copies of the final rule, the ADDRESSES: Copies of the final rule, the regulatory analysis, public comments received and related documents may be sectived and related documents may be examined on public computers and copied for a fee nt the NRCs Fuldic Opcument North, 1155 Red Arckville Winte Flint North, 1155 Red Arckville Nice, Public Hose of Current and State available electronically at the ARCs Public Electronic Reading Room on the Information at http://www.arc.gov/reading-a

Public Electronic Keading Room on the Internet at http://www.nrc.gov/reading-nm/adams.html. From this nite, the public can gain entry into the NRCs Puotoc can gain entry into the NRC# Agencywide Document Access and Management System (ADAMS), which periods and system (ADAMS). Management System (ADAMS), which provides text and image files of NRC's public documents. For further information contact the PDR reference information contact the PDR reference

and the resulting Orders issued to vith dementic liconeece of the NRG and Agreement Statubority was a mended (American Statubority), as a same de-donic laware the convertient and security the Orders are separate from this rule-making and defense infect of neuroscience and separate reflect of provisions in the nucleoalifies provisions in the International Atomic Energy Agency rule commes provisions in the International Atomic Energy Agenc International Atomic Energy Agency (IAEA) Code of Conduct on the Safety and Security of Radioactive Sources and Security of Radioactive Sources (Code of Conduct) for the import and export of radioactive material, and the supplement of the Conduction of Sources (Code) (Code) (Code) Paragraphics in Sources (Code) (Code) (Conduct Sources) (Code) (Code) (Conduct Sources) (Code) be. In the development and harmonization of policies and have on certain exports and imports of radioese searces, which if handled improperly, may go a significant risk to individuals, society and the environment, to ensure that such searces are only excended to and the environment, to ensure that such sources are only exported to authorized end-users in courts with the source of the source of the source of the dequate spectra of a source that the U.S. and maximum the source of the politically committed to follow the source of the source o

Export controls, consistent with the Guidance, were incorporated into national laws.

- In the U.S., the Nuclear Regulatory Commission issued new rules consistent with the Guidance in late 2005.
 - Again, IAEA General Conference called for States to make a political commitment – this time to follow the Guidance – in GC(48)/RES/10.D.

2006 Establishment of a triennial review mechanism

- In 2006, IAEA established a formalized process of information exchange between States in order to further facilitate implementation of the Code and the Guidance.
- This review mechanism was called for in the Findings of the 2005 "International Conference on the Safety and Security of Radioactive Sources" held in Bordeaux, France.
- This process was implemented in 2007, 2010, and now in 2013 (Abu Dhabi). The review meetings were attended by 120 experts from 72 States in 2007 and 160 experts from 92 Member States in 2013. (In contrast, only 17 States attended the 2002 Code of Conduct meeting).

2011 Revision of the import/export Guidance

- In 2011, IAEA convened a consultants meeting to consider what revisions may be necessary to Guidance. Later, it was followed by a technical meeting to consider the consultants recommendations. The technical meeting was attended by155 experts from 82 States.
- There was general consensus that main provisions of the Guidance should not be altered. Participants supported revisions to update and clarify text in order to improve harmonized implementation. The biggest change was to Annex 1 which provides a questionnaire for helping assess a State's ability to safely, securely manage sources.
- September 2011 IAEA Board of Governors approved revised Guidance and the revised Guidance was published in 2012.

Other IAEA Activities Supportive of Radioactive Source Safety & Security Efforts

- Nuclear Security Fund 156 M Euros in voluntary contributions since 2002
- Integrated Regulatory Review Service (IRRS)
- Integrated Nuclear Security Support Plans (INSSP)
- RAIS software for national source registry
- Workshops, Training, Outreach
- Development of International Guidance for Security of Sources

IAEA Nuclear Security Series

Guide on Security of Radioactive Sources *IAEA Nuclear Security Series No. 11*

International Conferences

Vienna, 2003

Rabat, 2003

Safety and Security of Radioactive Sources: Towards a Global System for the Continuous Control of Sources throughout Their Life Cycle

Bordeaux, 2005

Abu Dhabi, 2013

Other International Efforts: 2012 Nuclear Security Summit, Seoul

Communique: "Taking into account that radioactive sources are widely used and can be vulnerable to malicious acts, we urge States to secure these materials, while bearing in mind their uses in industrial, medical, agricultural and research applications. To this end, we encourage States in a position to do so to continue to work towards the process of ratifying or acceding to the ICSANT; reflect into national practices relevant IAEA Nuclear Security Series documents, the IAEA Code of Conduct on the Safety and Security of Radioactive Sources and its supplementary document on the IAEA Guidance on the Import and Export of Radioactive Sources; and establish national registers of high-activity radioactive sources where required. We also commit to work closely with the IAEA to encourage cooperation on advanced technologies and systems, share best practices on the management of radioactive sources, and provide technical assistance to States upon their request. In addition, we encourage continued national efforts and international cooperation to recover lost, missing or stolen sources and to maintain control over disused sources.

As of October 2013, 119 States have made a political commitment to follow Code of Conduct

International support for the Code of Conduct on the Safety and Security of Radioactive Sources (as of 17 July 2013)

And 84 States have made political commitment to follow the Guidance

International support for the IAEA Guidance on the Import and Export of Radioactive Sources (as of 17 July 2013)

Part III – Going Forward - Successes and Remaining Challenges

Information exchange

Regional cooperation

Dirty bomb response exercises and orphan source searches

Philippines PNRI Source Security Working Group

National Training Course on Physical Protection & Security Management of Radioactive Sources

International endorsement

Work still to be done

Orphan sources in scrap metal

The dose rates, geometry, and all that stuff

ANSTO survey results indicated 350 μ Sv/h near the centre of the door (50 μ Sv/h at 1m)

Also measured 70 $\mu S \nu/h$ on the right hand side, and

150 μ Sv/h on the left hand side

Initial activity estimated about 1.5GBq of Cs-137 No neutrons detected (i.e. no Am-Be or Ra-Be)

Orphan sources in scrap metal

Return to supplier

Implementation of import / export guidance

REQUEST TO THE IMPORTING STATE FOR CONSENT TO IMPORT CATEGORY 1 RADIOACTIVE SOURCES OR TO IMPORT CATEGORY 1&2 SOURCES UNDER EXCEPTIONAL CIRCUMSTANCES Pursuant to Paragraphs 6, 7, 8, 14, 15 & 16 of the IAEA Guidance on the Import and Export of Radioactive Sources, and Paragraphs 23-25 of The Code of Conduct on the Safety and Security of Radioactive Sources

请求进口国同意进口一类放射源 或在特别情况下同意进口一类和二类放射源申请表

根据国际原子能机构《放射源的进口和出口导则》第6段、第7段、第8段、第14段、 第15段和第16段以及《放射源安全和保安行为准则》第23段至第25段

DEMANDE DE CONSENTEMENT DE L'ÉTAT IMPORTATEUR POUR L'IMPORTATION DE SOURCES RADIOACTIVES DE CATÉGORIE 1 OU DE SOURCES RADIOACTIVES DE CATÉGORIES 1 ET 2 DANS DES CIRCONSTANCES EXCEPTIONNELLES En vertu des paragraphes 6, 7, 8, 14, 15 et 16 des orientations de l'AIEA pour l'importation et l'exportation de sources radioactives, et des paragraphes 23 à 25 du Code de conduite sur la sûreté et la sécurité des sources radioactives

ЗАПРОС ИМПОРТИРУЮЩЕМУ ГОСУДАРСТВУ О СОГЛАСИИ НА ИМПОРТ РАДИОАКТИВНЫХ ИСТОЧНИКОВ КАТЕГОРИИ 1 ИЛИ ИМПОРТ ИСТОЧНИКОВ КАТЕГОРИЙ 1 И 2 В ИСКЛЮЧИТЕЛЬНЫХ ОБСТОЯТЕЛЬСТВАХ В соответствии с пунктами 6, 7, 8, 14, 15 и 16 Руководящих материалов МАГАТЭ по импорту и экспорту радиоактивных источников и пунктами 23-25 Кодекса поведения по обеспечению безопасности и сохранности радиоактивных источников

SOLICITUD AL ESTADO IMPORTADOR PARA QUE PERMITA LA IMPORTACIÓN DE FUENTES RADIACTIVAS DE LA CATEGORÍA 1 O LA IMPORTACIÓN DE FUENTES DE LAS CATEGORÍAS 1 Y 2 EN CIRCUNSTANCIAS EXCEPCIONALES

Con arreglo a los párrafos 6, 7, 8, 14, 15 y 16 de las Directrices sobre la importación y exportación de fuentes radiactivas del OIEA, y a los párrafos 23 a 25 del Código de Conducta sobre la seguridad tecnológica y física de las fuentes radiactivas

طلب إلى الدول المستوردة بشأن الموافقة على استيراد المصادر المشعنة التي تنتمي إلى الفنة 1 أو استيراد المصادر التي تنتمي إلى الفنة 1 والفنة 2 في ظل ظروف استثنائية عملاً بالفقرات 6و 7 و 8 و14 و15 و16 من إرشدات الوكالة بشأن استيراد المصادر المشعنة وتصديرها، والفقرات 23 إلى 25 من مدونة قواعد السلوك بشأن أمان المصادر المشعنة وأمنها

Security of sources

Contractual liability issues

Third party liability

Australian Government

