

**Consideration on Main Issues Related to Amendment for  
Physical Protection Convention(INFCIRC/274/Rev.1)**

150

가 1 (INFCIRC/274/Rev.1)' , IAEA (Working Group) 가

가

**Abstract**

According to the recent increase of threats such as unauthorized removal of nuclear material, sabotage and terrorism of nuclear facilities, the international regime of physical protection has been required to effectively cope with them. As a part of the countermeasures, Working Group meetings including the Informal Open-Ended Expert Meeting to Discuss Whether there is a Need to Revise the Convention have been held in auspice of IAEA Secretariat for about one year. Along with this, Member States have in depth discussed the main issues related to the amendment of the existing Physical Protection Convention(INFCIRC/274/Rev.1). Finally, most of Member States have agreed the 'Fundamental principles of physical protection' for strengthening their system of physical protection as well as suggested the three parallel steps process for amendment of the Convention. This paper presents the consideration on international trend and procedures for main issues related to amendment of the Convention, which have been discussed at IAEA Working Group meetings, in order to be available to establish domestic system of physical protection through predicting the trend of the amendment of the Convention.

1.

(INFCIRC/274/Rev.1)'

가

(INFCIRC/225/Rev.4)

가

1

가

5

IAEA  
가

가

## 2. IAEA

IAEA

(Working Group)  
(INFCIRC/274/Rev.1)

1

가

6

19

1)

2)

IAEA

3)

( 6 )

4)

IAEA

5)

( )

가.

, IAEA  
가 가

(WP-6)

1991

2000 3

1990

(Newly Independent States, NIS)

1995 3 IAEA  
(Measures Against Illicit  
Trafficking in Nuclear Materials & Other Radioactive Sources : GOV/2773/Add.1) \_

8 2 , IAEA database ,  
(N4.11.42.Circ.) , 1996 IAEA program

IAEA , 1996 IAEA  
\_98 4 23 ,  
가 ,  
IAEA 가

IAEA (WP-6)

-  
- (INFCIRC/274/Rev.1) 가

- 가 ,

- 가 ,

가 가 ,

- 가

-  
- IAEA HEU Pu (significant quantity) ,  
HEU LEU

(sample material)

- 가

가 IAEA ITDP(illicit trafficking database program)  
IAEA

, 가  
가 ,

- 가

가

- ,

- 가 .

(INFCIRC/225/Rev.4) IAEA

가 1998 10 , ,

(design basis threat, DBT)' ,

가

- 가

- IAEA (guides) 가

- IAEA (provisions)

가 가 ,

- IAEA IAEA

- IAEA IAEA

- IAEA

( 6 , WP-12)

6 ( , , , , )

1) (INFCIRC 225, Article 3.1 )  
가

-

-

2)

-

3)

-

3 :

-

-

-

-

-

-

( 6 )

4)

-

5) 가

INFCIRC 225

6

IAEA

(INFCIRC/225/Rev.4)

IAEA

가

1) A:

-

-

-

-

-

-

-

-

가

( 3 )

(resources)

가

가

(preambular language)

( )

가 ,

가

IAEA

(fundamentals and requirements)

(Drafting group)

(WP-13)'

가

2) B: ( )

3) C: , 가 가

가

4) D: ,

5) E: 가 ,

6) F: (security culture) (due priority) 가

7) G: 가

8) H: 가 (graded approach)

9) I: Defence in depth (layers)

10) J: (Quality Assurance)

11) K: ( )

12) L:

6 ( , , , , )

(WP-17) IAEA 가 , 46 IAEA IAEA

text

3 3 6 가

-1 (1 ) : GC

- 2 (1-2 ) : Security standards"
- 3 (2-3 ) :

1998 가 , IAEA가 ,

5 IAEA , - , IAEA 6 (WP-5)'

- (1) - 20 ( ) 가 .
- , 2001 5 가 ,
- 6 WG ,

11 , 가 'Due consideration' , (WP-19) 2001 1 ,

(가) 0 , ,

0 , ( )

0 - , ( I, II) , 2,3,,4 ( 5 )

- ( 8-13 )  
- ( 5, 6, 13, 14 )  
o

가 , IAEA (INFCIRC/225 )

( ) 1 , , , WP-13  
License, Licensing, Licensee, Effective Independence,  
Security Culture, Graded Approach가

( )

o : , /  
o  
- , :

o (WP-13)

o IAEA :

(2) 'Due Consideration'

11

'Due consideration'

- 'Due consideration'

- 'Due consideration'

(exercise)

(discretion)

- 'Due consideration'

- , WG

가

INFCIRC/225

( IAEA )

(Draft Final Report of the Working Group)

1

가

TOR



- 가 IAEA (WP-13) (WP-17)
- Security Standards , WP-13 IAEA "Security Fundamentals"
- IAEA Standing Advisory Group WP-17 IAEA

3.

가 1

가 IAEA

IAEA

Security Standards

3

가 5

가

가

가

가

가

가

가

가

가

가

1. INFCIRC/274, "Convention on the Physical Protection of Nuclear Material", IAEA, Austria, (1980).
2. INFCIRC/225/Rev.3, "The Physical Protection of Nuclear Material", IAEA, Austria, September (1993).
3. INFCIRC/225/Rev.4, "The Physical Protection of Nuclear Material and Nuclear Facilities", IAEA, Austria, March (1999).
4. IAEA/TECDOC-967, "Guidance and Considerations for Implementation of INFCIRC/225/Rev.3", IAEA, Austria, September (1997).
5. James W. Purvis, "Sabotage at Nuclear Power Plants", Sandia National Laboratories, Paper of INMM 40th Annual Meeting, 1999.
6. WP-6 : Analysis of Illicit Trafficking of Nuclear Material, June 2000.
7. WP-13 : Physical Protection Objectives and Fundamental Principles.
8. WP-17 : Draft Resolution of the General Conference Proposed to the Expert Group by Belgium, France, Germany, Spain, Sweden and the UK[and others].
9. WP-18 : Elements for discussion in view of the final recommendations of the Working Group Proposal by Italy.
10. WP-19 : Possible Outline for Revising the Convention Based on the Working Group's November 2000 Initial Suggestion and Recommendation for a Well-Defined Amendment by the United States.
11. Draft of Chairman's Report(29 Jan.-2 Feb. 2001)
12. Draft of Final Report of the Working Group(29 Jan.-2 Feb. 2001)