

**Nuclear Controls and its Correlation with the Energy Policy  
in Two Koreas**

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가

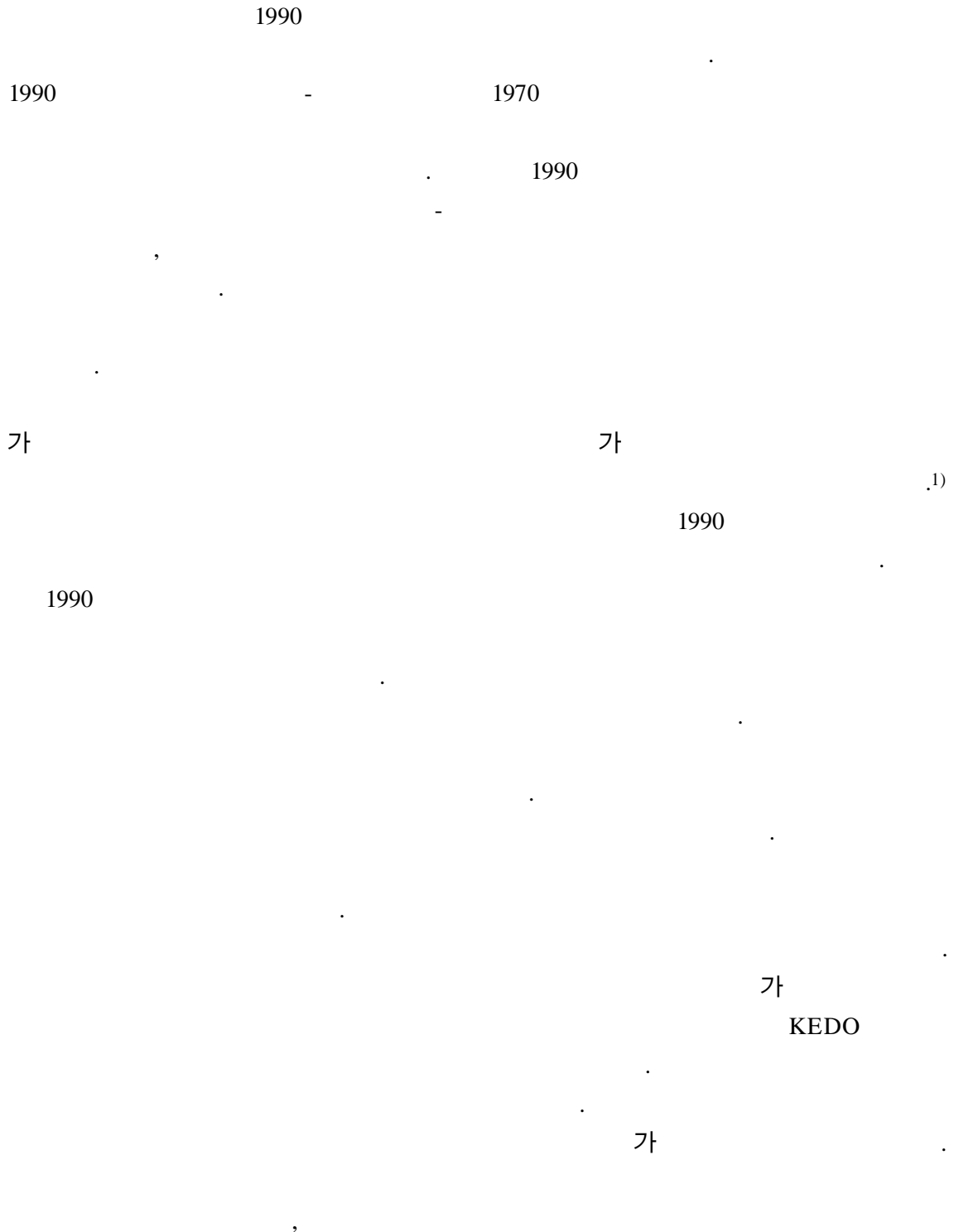
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**Abstract**

The purpose of this paper is to analyse how the nuclear controls, main tools of implementation for the international NPT regime, have been understood and taken by two Koreas, and also what kind of influence it has on the energy policies of two Koreas as a national energy resources. Even though two Koreas have shown different position in their understanding and their reactions for the nuclear controls, there exist a close correlation between the nuclear controls and energy policies in the sense that they approach nuclear energy question as a essential way to make sure energy resources for industrial and social development.

(control)

가 가 가 가




---

1) 3  
(Physical protection)

(safeguards),

(Export control)

I.

1950

(Dwight David Eisenhower)

(regime)

.<sup>2)</sup> 1956

IAEA(International Atomic Energy

Agency)

. 1945

가

.<sup>3)</sup>

1968

1970

(NPT: Treaty on the Non-Proliferation of nuclear

weapons)

1970

가

3

가.

1945

, 1949

1952

가

1950

1953

8 UN

“

(Atoms for Peace)”

1956

(IAEA)

1968

(NPT)

.<sup>4)</sup> 1970 NPT

3

1

2

.<sup>5)</sup>

4

2) (regime)

( )

3) 1958 10 31

, 1963 8 5

4)

』, 2003

5) NPT 1970 3 5

, IAEA

INFCIRC/ 140

(Agreement of Safeguards)

가가 NPT

IAEA

가

, 2 IAEA

( : <http://www.iaea.org/worldatom/Documents/>).

가 . 1960  
가 , 1970  
가 -

IAEA NPT

UN  
가  
. UN IAEA  
UN 5  
가

(Anglo-Saxon) 가가  
“ ” - IAEA NPT -  
가 6)  
NPT 가  
. 1960  
-가

, 1969 11 14 “  
” 7)  
가 (PWR: Pressurized Water Reactor)  
가 가  
가 , ,

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6) , Choe, Kwan-Kyoo, *La politique nucléaire française: un modèle pour la politique de sécurité en Asie du Nord-Est*, (Thèse de Doctorat, Université de Paris X de Nanterre), 1998( )  
7) *Le Monde*, Novembre 15, 16, 17(1969). Chaban-Delmas (Valéry Giscard d'Estaing) (Jacques Chirac) , 80 가 , 70 가



, IAEA 1957 IAEA , 1968 NPT  
 5  
 .<sup>11)</sup> IAEA 1961 100 MW  
 INFCIRC/26 , 1960 ,  
 가  
 100 MW ,  
 1960 가  
 가 IAEA 1964  
 100 MW . 1965 1967  
 IAEA 가  
 INFCIRC/66 .<sup>12)</sup>  
 , INFCIRC/66 가  
 IAEA  
 가  
 IAEA INFCIRC/153  
 1970 NPT IAEA  
 가 . NPT 가  
 . 1972 INFCIRC/153/Corrected  
 가 , NPT IAEA  
 (Accountancy)  
 IAEA INFCIRC/153/Corrected  
 ' (strategic points)' .

<sup>11)</sup>  
 1990 가  
 IAEA .  
 11) IAEA (1999.5), pp. 2-3. 5  
 (Tlatelolco) , 가(Rarotonga) ,  
 (Pelindaba)  
 (Bangkok)  
 12) INFCIRC/66 1966 가 1 (Rev.1)  
 , 1968 (Nuclear Fuel Cycle) 가  
 2 (Rev.2)  
 13) , IAEA가  
 (material balance  
 accountancy) (containment)  
 (surveillance) 가 (INFCIRC/153 116 ). IAEA가  
 , IAEA, *IAEA Safeguards Glossary*, International  
 Nuclear Verification Series No. 3 (2001 Edition).  
 INFCIRC/153/Corrected

가

.14) NPT IAEA INFCIRC/ 153/ Corrected IAEA

.15) IAEA가 (ad hoc inspections) IAEA (routine inspections) 가 ‘ ’ 1990 IAEA 가

1993 ‘93 + 2 ’ 1995 , NPT IAEA 1997 5 ‘ 가 (Model Additional Protocol)’ 가 “IAEA INFCIRC/ 153 ) 가 ” 가 ( IAEA INFCIRC/540 .16) IAEA 1961 가 가 , (technological) 가 가 ‘ , 가 가 NPT (MTCR: Missile Technology Control Regime) .17) 가

14) IAEA, 『IAEA 』 , (KAERI/T S- 80/99), (1999.5), p. 14.

15) INFCIRC/ 153/ Corrected 62 63 . IAEA , [http:// www.iaea.org/ worldatom/ Documents/](http://www.iaea.org/worldatom/Documents/) .

16) IAEA (1995.5), *ibid.*, p. 20- 22.

17) MTCR , 『 』 11 1 ( MTCR: . , 1999), pp. 113- 136 .

1990

IAEA

가

1 (Gulf)

INFCIRC/540

가

가

1970

OECD (Organization for Economic

Co-operation and Development) 가

**OECD 가 1 (Supply) 18)**

					가		
	<b>1973</b>	24.9	45	0.9	16.2	1.8	11.2
	<b>2000</b>	23.5	34.9	6.8	21.1	2.3	11.5
<b>OECD</b>	<b>1973</b>	22.4	53.1	1.3	18.8	2.1	2.3
	<b>2000</b>	20.4	40.8	11	21.6	2.1	4.1

Source: IEA, *Key World Energy Statistics*, pp. 7-8(<http://www.iea.org> / 2003.09.13

).

가

가

. 1990

2000

**II.**

1990

가

18) (Consumption) 가 (Supply)  
, ' (Electricity)' 가

가



가  
. 1990

1994

(KEDO: Korean Peninsula Energy Development Organization)

가.

1975 3 20

(NPT: Non-nuclear Proliferation Treaty)

가

1975 가

. 1975 6 12

“

가

”

.<sup>19)</sup>

1975 6 30

7 1

가

.<sup>20)</sup>

1976 1

,

11

.<sup>21)</sup>

1970

가

1990

가

1994 10

1995 12

KEDO

1970

가

.<sup>22)</sup>

1968 NPT

1975

, 1975

IAEA

. 1980

, 1991

‘ , ’

1992 3

‘

’

.<sup>23)</sup>

,

-

19) *Le Mond*, (14 Juin, 1975).

20) *Le Monde*, (1 July, 1975).

21) , 『 , ( : , 1991), pp. 110- 11.

22) , “ - ” 『 10 (

, 2002), pp. 1970

『 , ( , 2002.12)

23)

, , *Status of Nuclear Controls in Two Koreas and its Relations with*

가

1992 2 1993  
3, 4 , 1994 3, 4 , 1997 5, 6 1999  
5, 6  
가 , 2015 8 가

.24)

IAEA

가

(SSAC: State System of Accounting for and Control of Nuclear Material)

1994

(TCNC: Technology Center for Nuclear Control)'

IAEA

가

1994

TCNC

.25) TCNC

1995

1997

(17 )

“

”

7

가

.26)

IAEA

*International Safeguards System* ( 44 INMM  
Phoenix, Arizona, USA)

, 2003 7 14 ,

24)

가

가

. <http://www.most.go.kr> ( : 2003. 4. 9)

25) TCNC

40 』 (2001), pp. 101- 104

5 가

26)

: 2001.12), p. 5.

2001

』 , KAERI/MR-376/2001 (

1999 , 2001 10 17 가 IAEA  
(NPA: New Partnership Approach)

(MOU)  
(RMS: Remote Monitoring System) (時差)

IAEA가

IAEA .27)

NPT

“ ”

가 .28) (EURATOM: European Atomic Energy Community) 1950

(ABACC: Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials)

가

.29)

2000

14.7%

40%

.30)

97%

27)

가

IAEA

2002

KAERI/MR-391/2002 ( : 2002.12), p. 9

28) Nuclear Energy Agency, OECD, "Energy Security and Diversity in Electricity Generation," *Projected Costs of Generating Electricity*, 1998, pp. 219-235  
(Energy Security Externalities) 가가

”, pp. 52-53 )

29) Holly Higgins, “Applying Confidence-Building Measures in a Regional Context,” in Holly Higgins (eds.), *Building Nuclear Confidence on the Korean Peninsula*(KAERI & ISIS, 2001), pp. 28-29.

30) 2003 3 31 44,287 MW(e) 3  
14,890 MW(e) 6 4,884 MW(e) 14  
5,318 MW(e) 13  
. http://www.iaea.org ( : 2003.04.02).

1970

**KEDO**

가

IRT - 2000

31) 1965 2 MWt 가

4 8 MWt

20 20

1974 IAEA 가 NPT 1984

IAEA NPT 가 32) 1985

1985 12 NPT

가 , IAEA

1992 1 IAEA

4 9 5 4

IAEA 1992 5 IAEA (ad hoc

inspection) , 가 IAEA

1993 3 NPT 1994 6 IAEA

1990

가 , 가 가

1956 1970 1/3

33) 2002

777 Kw 14.4% 70%

가

190.4 Kwh 6.2%

가 6:4 ,

31) 1955 2 5 'Agreement on Science and Technology Cooperation between the USSR and the DPRK' 1957 10 11 'Agreement on Science Cooperation between the Academy of Science of the USSR and the Academy of Science of the DPRK' ( , 『 (III)』 TCNC/KAERI- III, KAERI/AR-626/2002, pp. 1-6).

32) Ibid., p. 8.

33) Ibid., p. 36.

가

가

1950~1960

,<sup>34)</sup>

1980

(M. Gorbachev) 3 가

가

가 1999

,<sup>35)</sup>

1991 12

가 1992

1 IAEA

(JNCC)가 1992 3

18 , 1993 1 22 (meeting) (contact)

가

가

1994 10

1,000 MWe 2

KEDO가

. KEDO

2000 가

34) <http://www.unikorea.go.kr> ( : 2003.09.20).

35) <http://www.unikorea.go.kr> ( : 2003.09.20): 1995 223 (USD)  
 GNP 214 (1996), 177 (1997), 126 (1998), 158 (1999), 168 (2000)

. KEDO 2002 11 14 , 2002 12 12

( ) 2003 1 ‘ ’

,36)

가

. 1970

. 1970

가

, 1990

. , TCNC

가

36) <http://www.yonhapnews.co.kr>

( : 2003.02.04).

· , “ MTCR: . ”, 『 』  
 11 1 ( , 1999).  
 , “ : ”  
 , 『國際政治論叢』 41 4 ( , 2001).  
 , 『 ( , 2002.12).  
 , 『 ( : , 1991)  
 , “ - ” 『 10 ( , 2002).  
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Nuclear Energy Agency, OECD, "Energy Security and Diversity in Electricity Generation," *Projected Costs of Generating Electricity*, 1998.

, 『IAEA 』 , (KAERI/T S- 80/99), IAEA (1999.5).  
 , 『 2001 』 , KAERI/MR-376/2001 ( : 2001.12).  
 , 『 40 』 (2001).  
 , 『 (III)』 TCNC/KAERI- III, KAERI/AR-626/2002 ( : 2002).  
 , 『 2002 』 , KAERI/MR-391/2002 ( : 2002.12)  
 , 『 』 , 2003( ).

*Le Monde*, Novembre 15, 16, 17(1969).  
*Quid*, 1985.

- <http://www.iaea.org/worldatom/Documents>
- <http://www.most.go.kr>
- <http://www.unikorea.go.kr>
- <http://www.yonhapnews.co.kr>