

Japanese Note (Draft)

The Embassy of Japan presents its compliments to the Department of Foreign Affairs and Trade and has the honour to refer to the Implementing Arrangement attached to the Exchange of Notes done at Canberra on March 5, 1982, which was concluded pursuant to subparagraph 1.(b) of Article V of the Agreement between the Government of Japan and the Government of Australia for Co-operation in the Peaceful Uses of Nuclear Energy; signed at Canberra on the same date, and Annex B of the said Agreement (hereinafter referred to as the “Implementing Arrangement”).

The Embassy of Japan has further the honour to refer to consultations held on August 23, 2001 at Canberra, on September 7, 2004 at Tokyo and recent discussions between the Government of Japan and the Government of Australia concerning amendments to the delineated and recorded Japanese Nuclear Fuel Cycle Program (hereinafter referred to as the “Japanese Nuclear Fuel Cycle Program”) provided for in paragraph I of the Implementing Arrangement.

The Embassy of Japan has further the honour to propose, on behalf of the Government of Japan, the following changes to the list of facilities for MOX fuel for LWRs listed in section 4 of the Japanese Nuclear Fuel Cycle Program (as of June 1, 2005) pursuant to paragraph III.2 of the Implementing Arrangement.

(1) after the facility set out as 4.4.4 add:

“4.4.5 British Nuclear Group Sellafeld MOX Plant (U.K.)
 Sellafeld Limited”

(2) change “Nil” in 4.4 (c) to read:

“4.4.6 Japan Nuclear Fuel Rokkasho MOX Fuel
 Limited Fabrication Plant”

If the foregoing proposal is acceptable to the Government of Australia, the Embassy of Japan has further the honour to propose that this Note Verbale and its attachment incorporating these changes to the Japanese Nuclear Fuel Cycle Program, together with a Note Verbale in reply from the Department of Foreign Affairs and Trade indicating the Government of Australia’s agreement to these changes shall constitute an

agreement to replace the Japanese Nuclear Fuel Cycle Program (as of June 1, 2005).

The Embassy of Japan has further the honour to propose that the agreement shall enter into force on the date on which the Government of Australia notifies the Government of Japan through diplomatic channel that its constitutional and domestic requirements for the entry into force of the agreement have been satisfied.

The Embassy of Japan avails itself of this opportunity to renew to the Department of Foreign Affairs and Trade the assurances of its highest consideration.

Australian Note (Draft)

The Department of Foreign Affairs and Trade presents its compliments to the Embassy of Japan and has the honour to acknowledge receipt of the latter's Note Verbale No, —, dated, 2006 which reads as follows:

“Japanese Note Verbale”

The Department of Foreign Affairs and Trade has the honour to confirm that the proposal set forth in the said Note Verbale and its attachment is acceptable to the Government of Australia and to agree that the said Note Verbale and its attachment together with this Note Verbale shall constitute an agreement between the two Governments to replace the Japanese Nuclear Fuel Cycle Program (as of June 1, 2005). The Department of Foreign Affairs and Trade has the further honour to confirm that the agreement shall enter into force on the date on which the Government of Australia notifies the Government of Japan through diplomatic channel that its constitutional and domestic requirements for the entry into force of the agreement have been satisfied.

The Department of Foreign Affairs and Trade avails itself of its opportunity to renew to the Embassy of Japan the assurances of its highest consideration.

Japanese Nuclear Fuel Cycle Program (as of X 2006)

1. FACILITIES FOR CONVERSION TO UF6:

1.1	Cameco Corporation	Port Hope Plant	(Canada)
1.2	Cameco Corporation	Blind River Plant	(Canada)
1.3	Honeywell International Inc.	Metropolis Plant	(U. S. A.)
1.4	Springfields Fuels Limited	Springfields Plant	(U. K.)
1.5	Société pour la Conversion de l'Uranium en Metal et Hexafluorure	Pierrelatte Plant	(France)
1.6	Société pour la Conversion de l'Uranium en Metal et Hexafluorure	Malvesi Plant	(France)

2. FACILITIES FOR ENRICHMENT:

(a) In Operation:

2.1	USEC	Paducah Plant	(U. S. A.)
2.2	USEC	Portsmouth Plant	(U. S. A.)
2.3	Eurodif Production	Georges Besse Plant	(France)
2.4	Japan Nuclear Cycle Development Institute	Ningyo Toge Enrichment Engineering Facility	
2.5	Japan Nuclear Cycle Development Institute	Ningyo Toge Demonstration Plant	
2.6	Japan Nuclear Fuel Limited	Rokkasho Plant	
2.7	Urenco (Carpenhurst) Limited	Carpenhurst Plant	(U. K.)
2.8	Urenco Nederland BV	Almelo Plant	(Netherla nds)
2.9	Urenco Deutschland GmbH	Gronau Plant	(F. R. G.)

(b) Under Construction:

Nil

(c) Planned:

Nil

3. FACILITIES FOR CONVERSION TO UO2:

3.1	Global Nuclear Fuel Americas, LLC	Wilmington Plant	(U. S. A.)
3.2	Westinghouse Electric Corporation	Columbia Plant	(U. S. A.)
3.3	Cameco Corporation	Port Hope Plant	(Canada)
3.4	Cameco Corporation	Blind River Plant	(Canada)
3.5	Framatome ANP. GmbH	Hanau Plant	(F. R. G.)
3.6	Mitsubishi Nuclear Fuel Co., Ltd.	Tokai Plant	
3.7	Société Franco-Belge de Fabrication de Combustibles	Pierrelatte Plant	(France)
3.8	Springfields Fuels Limited	Springfields Plant	(U. K.)
3.9	Framatome ANP Inc.	Richland Plant	(U. S. A.)
3.10	Société Franco-Belge de Fabrication de Combustibles	Romans Plant	(France)

4. FACILITIES FOR FUEL FABRICATION:

4.1 For LWR Fuel

4.1.1	Global Nuclear Fuel-Japan Co., Ltd.	Yokosuka Plant	
4.1.2	Mitsubishi Nuclear Fuel Co., Ltd.	Tokai Plant	
4.1.3	Nuclear Fuel Industries, Ltd.	Kumatori Works	
4.1.4	Nuclear Fuel Industries, Ltd.	Tokai Works	
4.1.5	Westinghouse Electric Corporation	Columbia Plant	(U. S. A.)
4.1.6	Framatome ANP Inc.	Richland Plant	(U. S. A.)
4.1.7	Global Nuclear Fuel Americas, LLC	Wilmington Plant	(U. S. A.)

4.2 For ATR Fuel

4.2.1	Japan Nuclear Cycle Development Institute	Tokai Plant	
4.2.2	Nuclear Fuel Industries Ltd.	Tokai Works	

4.3 For FBR Fuel

(a) In Operation:

4.3.1	Japan Nuclear Cycle Development Institute	Tokai Plant	
4.3.2	Nuclear Fuel Industries Ltd.	Tokai Works	
4.3.3	Global Nuclear Fuel-Japan Co., Ltd.	Yokosuka Plant	
4.3.4	Mitsubishi Nuclear Fuel Co., Ltd.	Tokai Plant	

(b) Under Construction:

Nil

(c) Planned:

Nil

4.4 For MOX Fuel for LWRs

(a) In Operation:

4.4.1	Belgonucléaire	Dessel MOX Fabrication Plant	(Belgium)
4.4.2	Franco-Belge de Fabrication de Combustibles International	FBFC Dessel Plant	(Belgium)
4.4.3	Companie Générale des Matières Nucléaires	MELOX Plant	(France)
4.4.4	Companie Générale des Matières Nucléaires	Cadarache Fuel Fabrication Utility	(France)
4.4.5	British Nuclear Group Sellafield Limited	Sellafield MOX Plant	(U. K.)

(b) Under Construction

Nil

(c) Planned

4.4.6	Japan Nuclear Fuel Limited	Rokkasho MOX Fuel Fabrication Plant	
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5. FACILITIES FOR USE OF ANM:

5.1 LWRs

(a) In Operation:

(Authorized Gross (Year of
Capacity (Mwe)) Coming into
Operation)

5.1.1	The Japan Atomic Power Co.	Tokai No.2 Station	BWR	1,100	1978
5.1.2	The Japan Atomic Power Co.	Tsuruga Station (1)	BWR	357	1970
5.1.3	The Japan Atomic Power Co.	Tsuruga Station (2)	PWR	1,160	1987
5.1.4	Hokkaido Electric Power Co., Inc.	Tomari Station (1)	PWR	579	1989
5.1.5	Hokkaido Electric Power Co., Inc.	Tomari Station (2)	PWR	579	1991
5.1.6	Tohoku Electric Power Co., Inc.	Onagawa Station (1)	BWR	524	1984
5.1.7	Tohoku Electric Power Co., Inc.	Onagawa Station (2)	BWR	825	1995
5.1.8	Tohoku Electric Power Co., Inc.	Onagawa Station (3)	BWR	825	2002
5.1.9	Tokyo Electric Power Co., Inc.	Fukushima No.1 Station (1)	BWR	460	1971
5.1.10	Tokyo Electric Power Co., Inc.	Fukushima No.1 Station (2)	BWR	784	1974
5.1.11	Tokyo Electric Power Co., Inc.	Fukushima No.1 Station (3)	BWR	784	1976
5.1.12	Tokyo Electric Power Co., Inc.	Fukushima No.1 Station (4)	BWR	784	1978
5.1.13	Tokyo Electric Power Co., Inc.	Fukushima No.1 Station (5)	BWR	784	1978
5.1.14	Tokyo Electric Power Co., Inc.	Fukushima No.1 Station (6)	BWR	1,100	1979
5.1.15	Tokyo Electric Power Co., Inc.	Fukushima No.2 Station (1)	BWR	1,100	1982
5.1.16	Tokyo Electric Power Co., Inc.	Fukushima No.2 Station (2)	BWR	1,100	1984
5.1.17	Tokyo Electric Power Co., Inc.	Fukushima No.2 Station (3)	BWR	1,100	1985
5.1.18	Tokyo Electric Power Co., Inc.	Fukushima No.2 Station (4)	BWR	1,100	1987
5.1.19	Tokyo Electric Power Co., Inc.	Kashiwazaki-Kariwa Station (1)	BWR	1,100	1985
5.1.20	Tokyo Electric Power Co., Inc.	Kashiwazaki-Kariwa Station (2)	BWR	1,100	1990
5.1.21	Tokyo Electric Power Co., Inc.	Kashiwazaki-Kariwa Station (3)	BWR	1,100	1993
5.1.22	Tokyo Electric Power Co., Inc.	Kashiwazaki-Kariwa Station (4)	BWR	1,100	1994
5.1.23	Tokyo Electric Power Co., Inc.	Kashiwazaki-Kariwa Station (5)	BWR	1,100	1990
5.1.24	Tokyo Electric Power Co., Inc.	Kashiwazaki-Kariwa Station (6)	(A)BWR	1,356	1996
5.1.25	Tokyo Electric Power Co., Inc.	Kashiwazaki-Kariwa Station (7)	(A)BWR	1,356	1997
5.1.26	Chubu Electric Power Co., Inc.	Hamaoka Station (1)	BWR	540	1976
5.1.27	Chubu Electric Power Co., Inc.	Hamaoka Station (2)	BWR	840	1978
5.1.28	Chubu Electric Power Co., Inc.	Hamaoka Station (3)	BWR	1,100	1987
5.1.29	Chubu Electric Power Co., Inc.	Hamaoka Station (4)	BWR	1,137	1993

5.1.30	Chubu Electric Power Co., Inc.	Hamaoka Station (5)	BWR	1,380	2005
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5.1.31	Hokuriku Electric Power Co., Inc	Shika Station (1)	BWR	540	1993
5.1.32	Kansai Electric Power Co., Inc.	Mihama Station (1)	PWR	340	1970
5.1.33	Kansai Electric Power Co., Inc.	Mihama Station (2)	PWR	500	1972
5.1.34	Kansai Electric Power Co., Inc.	Mihama Station (3)	PWR	826	1976
5.1.35	Kansai Electric Power Co., Inc.	Takahama Station (1)	PWR	826	1974
5.1.36	Kansai Electric Power Co., Inc.	Takahama Station (2)	PWR	826	1975
5.1.37	Kansai Electric Power Co., Inc.	Takahama Station (3)	PWR	870	1985
5.1.38	Kansai Electric Power Co., Inc.	Takahama Station (4)	PWR	870	1985
5.1.39	Kansai Electric Power Co., Inc.	Ohi Station (1)	PWR	1,175	1979
5.1.40	Kansai Electric Power Co., Inc.	Ohi Station (2)	PWR	1,175	1979
5.1.41	Kansai Electric Power Co., Inc.	Ohi Station (3)	PWR	1,180	1991
5.1.42	Kansai Electric Power Co., Inc.	Ohi Station (4)	PWR	1,180	1993
5.1.43	Chugoku Electric Power Co., Inc.	Shimane Station (1)	BWR	460	1974
5.1.44	Chugoku Electric Power Co., Inc.	Shimane Station (2)	BWR	820	1989
5.1.45	Shikoku Electric Power Co., Inc.	Ikata Station (1)	PWR	566	1977
5.1.46	Shikoku Electric Power Co., Inc.	Ikata Station (2)	PWR	566	1982
5.1.47	Shikoku Electric Power Co., Inc.	Ikata Station (3)	PWR	890	1994
5.1.48	Kyushu Electric Power Co., Inc.	Genkai Station (1)	PWR	559	1975
5.1.49	Kyushu Electric Power Co., Inc.	Genkai Station (2)	PWR	559	1981
5.1.50	Kyushu Electric Power Co., Inc.	Genkai Station (3)	PWR	1,180	1994
5.1.51	Kyushu Electric Power Co., Inc.	Genkai Station (4)	PWR	1,180	1997
5.1.52	Kyushu Electric Power Co., Inc.	Sendai Station (1)	PWR	890	1984
5.1.53	Kyushu Electric Power Co., Inc.	Sendai Station (2)	PWR	890	1985

(b) Under Construction:

(Authorized Gross (Year of Capacity (MWe)) start of Construction)

5.1.54	Tohoku Electric Power Co., Inc.	Higashidori Station (1)	BWR	1,100	1998
5.1.55	Hokuriku Electric Power Company	Shika Station (2)	BWR	1,358	1999
5.1.56	Hokkaido Electric Power Co., Inc.	Tomari Station (3)	PWR	912	2009

(c) Planned:

(Authorized Gross (Year of
Capacity (Mwe)) Planned
Starting

5.1.57	Electric Power Development Co., Ltd.	Ohma Station	BWR	1383	2012
5.1.58	Chugoku Electric Power Co., Inc.	Shimane Station (3)	BWR	1,373	2011
5.1.59	Chugoku Electric Power Co., Inc.	Kaminoseki Station (1)	BWR	1,373	2014FY
5.1.60	Chugoku Electric Power Co., Inc.	Kaminoseki Station (2)	BWR	1,373	2017FY
5.1.61	Tohoku Electric Power Co., Inc.	Namie-odaka Station	BWR	825	2016FY
5.1.62	Tohoku Electric Power Co., Inc.	Higashidori Station (2)	BWR	1,385	As from 2016FY
5.1.63	Tokyo Electric Power Co., Inc.	Fukushima No.1 Station (7)	BWR	1,380	2011
5.1.64	Tokyo Electric Power Co., Inc.	Fukushima No.1 Station (8)	BWR	1,380	2012
5.1.65	Tokyo Electric Power Co., Inc.	Higashidori Station (1)	BWR	1,385	2013FY
5.1.66	Tokyo Electric Power Co., Inc.	Higashidori Station (2)	BWR	1,385	2015FY or after
5.1.67	The Japan Atomic Power Co.	Tsuruga (3)	PWR	1,538	2013FY
5.1.68	The Japan Atomic Power Co.	Tsuruga (4)	PWR	1,538	2014FY

(Given in Brackets is the reactor unit number)

Notes: "5.1 (c) Planned" means reactors whose construction plan were reported by the electric companies to the Agency of Natural Resources and Energy.

5.2 ATRs

(a) In Operation:

(Authorized Gross (Year of
Capacity (Mwe)) Coming into
Operation)

5.2.1	Japan Nuclear Cycle Development Institute	"Fugen"	Heavy water moderated , light water cooled	165	1979
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(b) Under Construction:

Nil

(c) Planned:

Nil

5.3 FBRs

(a) In Operation:

Nil

(b) Under Construction:

(Authorized Gross (Year of
Capacity (Mwe)) Coming into
Operation)

5.3.1	Japan Nuclear Cycle Development Institute	"Monju"	Sodium Cooled	280	temporary suspended
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(c) Planned:

Nil

6. FACILITIES FOR REPROCESSING:

(a) In Operation:

6.1	British Nuclear Group Sellafield Limited	Sellafield Plant	(U. K.)
6.2	Compagnie Générale des Matières Nucléaires	La Hague Plant	(France)
6.3	Japan Nuclear Cycle Development Institute	Tokai Reprocessing Plant	
6.4	Japan Nuclear Fuel Limited	Rokkasho Reprocessing Plant	

(b) Under Construction:

Nil

(c) Planned:

Nil

7. FACILITIES FOR STORAGE OF SEPARATED PLUTONIUM:

Nil

8. DEVELOPMENT AND DEMONSTRATION PROJECTS

ANM is utilized in the development and demonstration projects listed below which are being carried out in the interest of the future Japanese nuclear power program.

8.1 On Experimenting on Fast Breeder Reactor

(Authorized Gross (Year of Capacity (MWt)) Coming into Operation)

8.1.1	Japan Nuclear Cycle Development Institute	"Joyo"	Sodium Cooled	140	First Criticality: 1977 Mark III core: 2004
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8.2 On Reprocessing of First Reactor Spent Fuel

(Maximum Annual (Year of Reprocessing Coming into Capacity) Operation)

(a) In Operation:

8.2.1	Japan Nuclear Cycle Development Institute	Chemical Processing Facility	220g (235U+Pu)/test, MAX 6 tests/year)	1982
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(b) Under Construction:

8.2.2	Japan Nuclear Cycle Development Institute	Recycle Equipment Test Facility	6.0t spent fuel/year	Construction suspended
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(c) Planned:

Nil

8.3 On Civil Marine Propulsion

(Authorized Gross Capacity (MWt))

Nil