

Table-1 The Plutonium-Use Plan for Research and Development in Japan Atomic Energy Agency (Fiscal Year 2005 and 2006)

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Independent Administrative Institution Japan Atomic Energy Agency

Holder	Amount of spent fuels to be reprocessed ^{*2}		Amount of Pu in possession			Purpose of Use ^{*5}		
	Weight of spent fuels (tU)		Amount of Pu ^{*4} held at the end of FY2004 (tPuf) ^{*3}	Amount of Pu to be recovered (tPuf) ^{*3}		Place of use	Amount of Pu to be used (Rough estimate for a year) ^{*6} (tPuf/year) ^{*3}	Time to start use and prospects for the period required to consume
	FY2005	FY2006		FY2005	FY2006			
JAEA ^{*1}	4.2	3.1	3.4 (0.6)	0.2	0.2	Experimental Fast Reactor "JOYO"	0.1	After FY2005 Equivalent to about 7 years use
						Prototype Fast Breeder Reactor "MONJU"	0.5	After FY2007 Equivalent to about 6 years use

*1: Japan Atomic Energy Agency (JAEA) holds some plutonium recovered from spent fuel of Electric Power Companies (EPC). Ownership of the plutonium will be transferred from EPC to JAEA when the plutonium is used to make fuel assemblies for "JOYO" and "MONJU".

*2: The "Amount of spent fuel to be reprocessed" is based on the operation plan of Tokai Reprocessing Plant. The amount of 42 ton in FY2005 includes 28 ton already reprocessed from April to December, 2005.

*3: The "Amount of Pu" represents an amount of fissile plutonium (Puf) contained in plutonium.

*4: The amount "3.4 tPuf" excludes about 0.4 ton fissile plutonium used for experimental purposes such as fuel for the criticality test assembly FCA in Tokai site and DCA in Oarai site from 3.8 tPuf of the "Separated Pu" held by former JAERI (Japan Atomic Energy Research Institute) and former JNC (Japan Nuclear Cycle Development Institute) at the end of FY2004. The number in parenthesis (0.6) tPuf is amount of the "separated Pu" already fabricated into fuel assemblies for "JOYO" and "MONJU".

*5: In addition to plutonium use for "JOYO" and "MONJU", small amount of plutonium will be used in JAEA's research and development facilities under license of limited quantity and specific research and development purposes.

*6: The "Rough estimate for a year" represents an annual average amount of plutonium contained in MOX fuels to be loaded to "JOYO" and "MONJU" during standard reactor operations.

*7: "JOYO" is in operation and will presumptively continue to use about 0.1 ton fissile plutonium every year. The annual amount and prospected period to consume plutonium will depend on progress of research and development and will be subject to change.

*8: At "MONJU", JAEA is carrying out renovation work and will presumptively use about 0.5 ton fissile plutonium every year after FY 2007. As with "JOYO", the annual amount and prospected period to consume plutonium will depend on progress of research and development and will be subject to change.