

Table-1 The Plutonium-Use Plan for Research and Development in the Japan Atomic Energy Agency for Japanese Fiscal Year 2009

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Independent Administrative Institution Japan Atomic Energy Agency

Holder	Amount of spent fuel to be reprocessed in JFY2009 Weight of spent fuel (tU)	Amount of Pu in possession ^{*1} (tPuf) ^{*2}			Purpose of Use ^{*7}		
		Amount of Pu to be held at the end of JFY2008 ^{*4}	Amount of Pu to be recovered in JFY2009	Amount of Pu to be held at the end of JFY2009 ^{*5}	Research and development of fast breeder reactor, etc.		
					Place of use	Amount of Pu to be used (Rough estimate for annual use) ^{*8} (tPuf/year) ^{*2}	Time to start use and estimates for the period required to consume
JAEA	— ^{*3}	3.6 《0.7》 ^{*6}	— ^{*3}	3.6	Experimental Fast Reactor "JOYO"	0.1	approximately 6 years ^{*9}
					Prototype Fast Breeder Reactor "MONJU"	0.5	JFY2009 forward approximately 6 years ^{*10}

*1: "Amount of Pu in possession" includes plutonium which was recovered in the Tokai Reprocessing Plant (TRP) based on the reprocessing service contract with Electric Power Companies (EPC), but not yet transferred from EPC to the JAEA. The reason is that the JAEA plans to use the plutonium for "JOYO" and "MONJU" after transfer from EPC.

The JAEA plans to use a part of the plutonium to be recovered at the Japan Nuclear Fuel Ltd. (JNFL) Rokkasho Reprocessing Plant after transfer from EPC. A fixed amount of the plutonium will be announced in this plutonium-use plan after a decision is available in the future.

*2: "tPuf" represents a metric ton of fissile plutonium (Puf) contained in plutonium.

*3: Plutonium recovery isn't planned at Tokai Reprocessing Plant (TRP) in JFY 2009 for reasons of measures for improvement of quakeproof safety.

*4: "3.6 tPuf" excludes about 0.4 tPuf, which is dedicated to experimental purposes as fuel for a criticality test assembly FCA in the Tokai site from 4.0 tPuf of the "Separated Pu" to be held by JAEA at the end of JFY2008.

*5: This value includes amount of plutonium which JAEA is going to use in JFY2009.

*6: The number in parenthesis 《0.7》 tPuf shows the amount of the "separated Pu" already fabricated into fuel assemblies for "JOYO" and "MONJU".

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

*8: "Rough estimate for annual use" represents an annual average amount of plutonium contained in MOX fuel to be loaded into "JOYO" and "MONJU" during standard reactor operations.

*9: "JOYO" is carrying out examination on the countermeasure for the obstacle of the in-vessel storage rack which occurred in 2007. On the basis of result of this examination, JAEA will determine a new startup time for "JOYO" (the plutonium use start time).

*10: System start-up test of "MONJU" will be initiated upon acceptance of local community through proactive interactions. "MONJU" is expected to use about 0.5 tPuf every year after JFY 2009. The amount of annual usage and the expected period to consume the plutonium will depend on the progress of research and development, and therefore, will be subject to change and revision.