Japan Nuclear Fuel Limited, Reprocessing Facility (2nd quarter of FY 2007)

M	easured object	Sampling		Measurement		Measured value Note 1			Comparative area	Remarks	Usual range of fluctuation Note 1, Note 2
weasured object		Sampling point	Frequency	Object	Frequency	Object	Min to Max	Unit	Min to Max	Remains	Min to Max
				³ H		³ H	ND	Bq/L			ND
Seawater		Inside the port area of Mutsu-Ogawara Port Near the north boundary of the port area of Mutsu- Ogawara Port Near the south boundary of the port area of Mutsu- Ogawara Port	Once/3 months	⁹⁰ Sr	 Once/3 months	⁹⁰ Sr	ND	mBq/L		*- Sampling date: July 24, 2007	ND - 3
				γ nuclide		⁶⁰ Co	ND				ND
						¹⁰⁶ Ru	ND				ND
						¹³⁴ Cs	ND				ND
						¹³⁷ Cs	ND				ND
						¹⁴⁴ Ce	ND				ND
						¹⁵⁴ Eu	ND				ND
				Pu(α) ^{Note 3}		Pu(α) ^{Note 3}	ND	'			ND
				⁹⁰ Sr		⁹⁰ Sr					ND
		Near discharge outlet: 1 point About 1 km east: 1 point About 1 km west: 1 point About 0.62mi south: 1		γ nuclide	"	⁶⁰ Co				- Reported in 1st quarter.	ND
						¹³⁴ Cs					ND
						¹³⁷ Cs					ND
S	ea-bottom soil	point About 0.62mi north: 1 point About 3 km south: 1 point About 3 km north: 1 point Monomizaki-Oki: 1 point	Once/6 months		Once/6 months	¹⁴⁴ Ce		Bq/kg dry		- Will be reported in 3rd quarter.	ND
						¹⁵⁴ Eu					ND
				Pu(α) ^{Note 3}		Pu(α) ^{Note 3}					0.11 - 0.75
				²⁴¹ Am		²⁴¹ Am					ND - 0.30
				²⁴⁴ Cm		²⁴⁴ Cm					ND
	Fish	Rokkasho Village Front sea area: 1 point	Once/3 months	³ H		³ H	ND	Bq/L Bq/kg raw		- Sampling date: August	ND
				¹⁰⁶ Ru	Once/3 months	¹⁰⁶ Ru	ND		24, 2007 Object: flounder		ND
Marine product				Pu(α) ^{Note 3}		Pu(α) Note 3	ND			,	ND
	Shellfish	Rokkasho Village Front sea area: 1 point	Once/3 months	¹⁰⁶ Ru	Once/3 months	¹⁰⁶ Ru	ND	Bq/kg raw		- Sampling date: July 30, 2007	ND
Mari				Pu(α) ^{Note 3}		Pu(α) Note 3	ND			Object: common musse	ND - 0.007
		Rokkasho Village Front sea area: 1 point	Once/3 months	¹⁰⁶ Ru	Once/3 months	¹⁰⁶ Ru	ND	Bq/kg raw		- Sampling date: August 7, 2007	ND
				Pu(α) ^{Note 3}		Pu(α) Note 3	ND			Object: laminaria	ND - 0.012
	Fishing net	Rokkasho Village Front sea area: 1 point	Once/3 months	Surface dose rate	Once/3 months	γ radiation	ND	nGy/h		 Installation period: from June 12 to September 13, 	ND
				Absorbed dose rate		ß radiation	ND	nGy/h		2007	ND - 50

Note 1) ND: indicates below the determination limit.

Note 2) The "Usual range of fluctuation" is the minimum to the maximum of the past measured values (from 3rd quarter of FY 1998 to FY 2006), excluding the fluctuation caused by normal operation of the reprocessing facility. Items measured for period

Note 3) Pu (α): indicates the sum of 238 Pu and $^{239+240}$ Pu

Measured object		Sampling		Measurement		M	easured value Note 1		Comparative area		Usual range of fluctuation Note 1, Note 2
		Sampling point Frequency		Object Frequency		Object	Min to Max	Unit	Min to Max	Remarks	Min to Max
Air radiation	Dose rate	Inside the site: 9 points			Continuously	Monitoring post	13 - 40 Note 3	nGy/h			7 - 81 ^{Note 3}
		Outside the site: 3 points	Continuously	γ radiation		Monitoring station	19 - 51 ^{Note 3}				7 - 93 ^{Note 3}
		Inside the site: 1 point	Continuously	γ radiation	Once/week	γ radiation	8.7 - 10.5	μSv/7 days		- Installation period: from July 2 to October 1, 2007	6.2 - 12.9
	Cumulative dose	Inside the site: 9 points, Outside the site: 14 points	Continuously	γ radiation	Once/3 months	γ radiation	87 - 108	μGy/91 days	87	- Installation period: inside the site: from June 27 to September 26, 2007 outside the site: from June 28 to September 27, 2007	69 - 119
Air	Air-borne dust	Inside the site: 9 points	Continuously	Total a radioactivity Total ß radioactivity	Continuously	Total a radioactivity Total ß radioactivity	7.0 ^{Note 3} 4.8 ^{Note 3}	Bq/m³		- The maximum value in the quarter	16 Note 3 8.7 Note 3
		Outside the site: 3 points	Continuously	Total a radioactivity Total ß radioactivity	Once/week	Total a radioactivity Total ß radioactivity	* - 0.18 * - 0.57	mBq/m³		- Sampling period: from July 2 to October 1, 2007 '- Measured values with three times as large as the counting error or lower were regarded as below the detection limit and represented by ***.	* - 0.37 * - 1.2
				¹⁰⁶ Ru		¹⁰⁶ Ru	ND			- Sampling period:	ND
		Inside the site: 9 points, Outside the site: 3 points	Continuously		Once/3 months	Pu(α) ^{Note 4}	ND	mBq/m³		inside the site: from July 1 to October 1, 2007 outside the site: from July 2 to October 1, 2007	ND
	Gaseous beta radioactivity concentration	Outside the site: 3 point	Continuously	⁸⁵ Kr	Continuously	⁸⁵ Kr	ND - 4 Note 3, Note 5	kBq/m³			ND Note 3
	lodine	Outside the site: 3 points	Continuously	¹³¹	Once/week	131	ND	mBq/m ³		- Sampling period: from July 2 to October 1, 2007	ND
	Moisture in air	Outside the site: 3 points	Continuously	³H	Once/month	³ H	ND	mBq/m³		- Sampling period: from June 29 to September 28, 2007	ND
	Drinking water	Outside the site: 4 points	Once/3 months	³ H ⁹⁰ Sr ¹⁰⁶ Ru ¹³⁷ Cs Pu(a) ^{Note 4}	Once/3 months	³ H ⁹⁰ Sr ¹⁰⁶ Ru ¹³⁷ Cs Pu(a) ^{Note 4}	ND ND ND ND	Bq/L mBq/L		- Sampling date: July 3 and 5 2007	ND ND ND ND ND ND
Land soil	Surface soil	Inside the site: 1 point, Outside the site: 3 points	Once/year	9°Sr 108Ru 128] 137°Cs Pu(q) Note 4 244Am	Once/year	90 Sr 106 Ru 129 I 137 Cs Pu(q) Note 4 244 Am	1.5 - 5.4 ND ND 8 - 24 0.29 - 0.82 0.10 - 0.25 ND	Bq/kg dry	4.6 ND ND 7 0.26 0.10	- Sampling date: July 27, 2007	1.5 - 9.4 ND ND 8 - 37 0.23 - 0.91 0.09 - 0.33
	Lake-bottom soil	Outside the site: 1 point	Once/year	90 Sr 137 Cs Pu(c) Note 4 241 Am	Once/year	90Sr 137Cs Pu(a) Note 4 241Am 244Cm		Bq/kg dry		- Will be reported in 3rd quarter.	ND - 0.5 5 - 11 0.97 - 1.3 0.34 - 0.42 ND
Land plant	Polished rice	Outside the site: 3 points	Once/year	¹⁴ C ¹⁰⁶ Ru Pu(α) ^{Note 4}	Once/year	¹⁴ C ¹⁰⁶ Ru Pu(α) ^{Note 4}		Bq/g • carbon Bq/kg raw		- Will be reported in 3rd quarter.	0.23 - 0.25 ND ND
	Root vegetable	Outside the site: 2 points	Once/year	¹⁰⁶ Ru Pu(a) ^{Note 4}	Once/year	¹⁰⁶ Ru Pu(a) ^{Note 4}	ND ND	Bq/kg raw		- Sampling date: August 16, 2007 Object: potato - Will be reported in 3rd quarter. Object: sweet potato	ND ND
	Leaf vegetable	Outside the site: 1 point	Once/year	¹⁰⁶ Ru Pu(a) ^{Note 4}	Once/year	¹⁰⁶ Ru Pu(α) ^{Note 4}		Bq/kg raw		Will be reported in 3rd quarter. Object: Chinese cabbage	ND ND
Farm product	Milk	Outside the site: 4 points	Once/3 months	¹⁰⁶ Ru	Once/3 months	106Ru	ND	Bq/L		- Sampling date: July 3, 2007	ND

Note 1) ND: indicates below the determination limit.

Note 2) The "Usual range of fluctuation" is the minimum to the maximum of the past measured values (from 3rd quarter of FY 1998 to FY 2006), excluding the fluctuation caused by normal operation of the reprocessing facility. Items measured for perio

Note 3) Indicates 1 hour average values.

Note 4) Pu(α): indicates the sum of ²³⁸Pu and ²³⁹⁺²⁴⁰Pu.

Note 5) Measured values at the monitoring stations were as follows:

At the Oippekawa monitoring station, 1 hour average value from 6 to 7 on September 21 was 3 kBq/m3. All was ND at other periods.

At the Futamata monitoring station, 1 hour average