Japan Atomic Energy Agency, Tokai Research and Development Center, Nuclear Fuel Cycle Engineering Laboratories, Reprocessing Facility (1st quarter of FY 2007)

	Measured object	Sampling		Measurement		Measured value			*Comparative area	Remarks	Usual range of fluctuation (Note 3)
	weasured object	Sampling point Frequency		Object	Frequency	Object Min to Max		Unit	Min to Max	Remarks	Min to Max
	Seawater	Near discharge outlet: 5 points		Total ß radioactivity		Total ß radioactivity	ND				ND
		(A mixture of samples from the 5 points	Once/3 months	3H	Once/3 months	3H	ND			Data at Kuji-Oki and Isozaki-Oki will	ND
		was measured)		Total ß radioactivity		Total ß radioactivity				be reported in the 2nd and 4th	ND
		Kuji-Oki and Isozaki-Oki: 2 points	Once/6 months		Once/6 months			Bq/L		quarters.	
				³Н		³ Н				Data at about 20 km north will be	ND
		About 20 km north: 1 point*	Once/year	Total ß radioactivity	Once/year	Total ß radioactivity				reported in the 2nd quarter.	ND
		/ bodt 20 tan horas i point	Onociyear	³ Н	Onceryear	³ Н					ND
		Near discharge outlet: 5 points (A mixture of samples from the 5 points was measured) About 20 km north: 1 point*		Nuclide analysis	Once/year	⁹⁰ Sr					ND - 0.0020
						¹⁰⁶ Ru				w Will be reported in 2nd quarter.	ND
						¹³⁴ Cs					ND
			Once/year					Bq/L			
						¹³⁷ Cs					ND
						¹⁴⁴ Ce					ND
						^{239,240} Pu					ND
						90 _{Sr}	ND		ND		ND - 0.13
	Sea-bottom soil	Near discharge outlet: 5 points (A mixture of samples from the 5 points		s Nuclide analysis	Once/6 months	¹⁰⁶ Ru	ND		ND		ND
		(A mixture of samples norm the 5 points was measured)				¹³⁴ Cs			ND		ND
		,	Once/6 months			""Us	ND	Bq/kg dry		· •	
		Kuji-Oki and Isozaki-Oki: 2 points				¹³⁷ Cs	ND		ND		ND - 1.4
		About 20 km north: 1 noint*				¹⁴⁴ Ce	ND		ND		ND
		About 20 km north: 1 point*				^{239,240} Pu	0.40 - 0.60	1	0.54		0.17 - 0.90
						90Sr	ND		ND		ND
	White bait			ns Nuclide analysis	Once/3 months	¹⁰⁶ Ru	ND		ND		ND
		Tokai village offshore: 1 point						• Bq/kg raw			
		Tokai village onshore. T point	Once/3 months			¹³⁴ Cs	ND		ND		ND
		About 10 km beyond: 1 point*				¹³⁷ Cs	0.048		0.058		ND - 0.11
						¹⁴⁴ Ce	ND		ND		ND
						^{239,240} Pu	ND		ND		ND
						⁹⁰ Sr	ND		ND		ND
	Flatfish or flounder	Tokai village offshore: 1 point About 10 km beyond: 1 point*	Once/3 months	Nuclide analysis	Once/3 months	¹⁰⁶ Ru	ND	Bq/kg raw 0	ND		ND
						***Ru					
						¹³⁴ Cs	ND		ND		ND
						¹³⁷ Cs	0.067		0.051		0.044 - 0.14
ш						¹⁴⁴ Ce	ND		ND		ND
Jani						^{239,240} Pu	ND		ND		ND
E,						90Sr	ND		ND		ND
Marine organism						5F 106	-	Bq/kg raw		Sampling impossible at Kuji beach	
Š		Kuji beach offshore: 1 point About 10 km beyond: 1 point*	Once/3 months	Nuclide analysis	Once/3 months	¹⁰⁶ Ru	-		ND		ND
	Shellfish					¹³⁴ Cs	-		ND	offshore.	ND
	Sheinan					¹³⁷ Cs	-	Dyng law	ND	Object of about 10 km beyond:	ND
						¹⁴⁴ Ce	-		ND	clam	ND
						^{239,240} Pu	_		ND		ND - 0.0048
						90Sr	0.022, 0.026		0.034	+	0.022 - 0.065
			Kuji beach offshore: 1 point Isozaki offshore: 1 point About 10 km beyond: 1 point*	Nuclide analysis	Once/3 months			Bq/kg raw		-	
	Description	Kuji beach offshore: 1 point				¹⁰⁶ Ru	ND		ND		ND
	Brown algae (seaweed, brown seaweed, etc.)	langeli effeksen Assist				¹³⁴ Cs	ND		ND	Object: seaweed, Eisenia 	ND
		Isozaki olishore. I politi				¹³⁷ Cs	ND		0.042		ND - 0.094
		About 10 km beyond: 1 point*				¹⁴⁴ Ce	ND		ND		ND
						^{239,240} Pu	ND		ND		ND - 0.0089
									110		
	Fishing net	Fishing net towed at Tokai village offshore	Once/3 months	Absorbed dose	Once/3 months	ß radiation	ND	nGy/h			ND
	-			Surface dose		γ radiation	ND	nGy/h			ND
	Hull	Deck	Once/3 months	Absorbed dose	Once/3 months	ß radiation	ND	nGy/h			ND
	i iuli	Deux	Unce/s months	Surface dose	Unce/3 months	γ radiation	ND	nGy/h			ND
		Kuji beach coast: 1 point		Total ß radioactivity		Total ß radioactivity	ND		ND		ND - 0.085
			1 point Once/6 months south: 1 point at	³ H	Once/6 months		ND	Bq/L			ND - 0.003
	Coastal water			Н		³ H	NU		ND		
		Nuji beach cuast. I punt		Nuclide analysis	Once/year	⁹⁰ Sr		Bq/L		ur ur ur Will be reported in 3rd quarter.	ND - 0.0021
		Ajigaura coast: 1 point				¹⁰⁶ Ru					ND
						¹³⁴ Cs					ND
		About 20 km north and south: 1 point at				¹³⁷ Cs					ND
		each*				¹⁴⁴ Ce					
						····Ce					ND
						^{239,240} Pu					ND - 0.000075
		Kuji beach coast: 1 point Ajigaura coast: 1 point	Once/3 months	s Surface dose	Once/3 months	ß radiation	64, 70	min ⁻¹	61, 71		52 - 86
	Coastal sand							nGy/h			

(Note 1) ND: indicates below the determination limit.

(Note 2) *: indicates the comparative area.

(Note 3) The usual range of fluctuation is that in the past 10 years from FY 1997 to FY 2006.

(Note 4) The usual range of fluctuation is that in the past 3 years from FY 2004 to FY 2006.

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Measured object		Sampling		Measurement			Measured value		*Comparative area	2	Usual range of fluctuation (Note 3)
		Sampling point	Frequency	Object	Frequency	Object	Min to Max	Unit	Min to Max	Remarks	Min to Max (Note 4)
Ę	Dose rate	Inside environmental monitoring area: 9 points Outside environmental monitoring	Continuously	γ radiation	Continuously	A radiation Monitoring station	35 - 44	nGy/h		Eight monitoring posts	33 - 46 (42±9) 31 - 37
Air radiation		area: 3 points				Monitoring static	32 - 36		32	Four monitoring stations	(33±5)
Air ra	Cumulative dose (TLD)	Inside environmental monitoring area: 15 points Outside environmental monitoring area: 25 points	Continuously	γ radiation	Once/3 months	γ radiation	60 - 110	µGy/91 days	50 - 100	From March 27 to June 26	40 - 120 (80±40)
	Air-borne dust	Inside environmental monitoring area: 3 points Outside environmental monitoring area: 4 points	Continuously	Total a radioactivity	Once/week ·····	Total a radioactivit	ND - 0.048		0.022 - 0.052		ND - 0.088
				Total ß radioactivity		Total ß radioactivit	ND		ND		ND - 0.93
Air				Nuclide analysis	Once/3 months	⁹⁰ Sr	ND		ND		ND
						¹³⁷ Cs	ND		ND		ND
						^{239,240} Pu	ND		ND		ND
	lodine	Inside environmental monitoring area: 1 point Outside environmental monitoring area: 3 points	Continuously	131	Once/week	¹³¹	ND	mBq/m ³	ND		ND
	Gaseous beta radioactivity concentration	Inside environmental monitoring area: 1 point Outside environmental monitoring area: 3 points	Continuously	⁸⁵ Kr	Continuously	⁸⁵ Kr	ND	kBq/m ³	ND		ND
	³ H in water	Outside environmental monitoring area: 2 points	Continuously	³Н	Once/month	³Н	ND	Bq/L	ND		ND - 6.9
	Rain water	Inside environmental monitoring area: 1 point	Continuously	³ Н	Once/month	³ Н	ND	Bq/L			ND - 4.8
	Settled dust	Inside environmental monitoring area: 1 point	Continuously	Total ß radioactivity	Once/month	Total ß radioactivit	12 - 14	Bq/m ²			ND - 65
	Drinking water	Inside environmental monitoring area: 1 point	Once/3 months	Total ß radioactivity	tal ß radioactivity ³ H Once/3 months	Total ß radioactivit	0.044 - 0.057	Bq/L	0.063		ND - 0.090
		Outside environmental monitoring area: 3 points		³ Н		³ Н	ND		ND		ND
	Leaf vegetable	Outside environmental monitoring area: 3 points	Once/3 months	¹³¹	Once/3 months	¹³¹	ND	Bq/kg raw	ND	Object: spinach	ND
				Nuclide analysis	s Once/year	⁹⁰ Sr				Will be reported in 3rd quarter.	ND - 0.21
	Leal vegetable					¹³⁷ Cs		Byrky law			ND
						^{239,240} Pu					ND
	Polished rice	Outside environmental monitoring area: 3 points	Once/year	¹⁴ C ⁹⁰ Sr	Once/year	¹⁴ C		Bq/g•carbon Bq/kg raw		Will be reported in 3rd quarter.	0.23 - 0.27
						⁹⁰ Sr					ND
	Milk	Outside environmental monitoring area: 2 points	Once/3 months	131	Once/3 months	¹³¹	ND	Bq/L raw	ND		ND
				⁹⁰ Sr	Once/year	⁹⁰ Sr				Will be reported in 3rd quarter.	ND - 0.034
	Surface soil	Inside environmental monitoring area: 2 points Outside environmental monitoring area: 3 points	Once/year	Nuclide analysis	Once/year	⁹⁰ Sr ¹³⁷ Cs ^{239,240} Pu		Bq/kg dry		Will be reported in 3rd quarter.	ND - 6.1 2.8 - 36 0.058 - 1.2
	River water	Shinkawa: 3 points Kuji river upstream: 1 point*	Once/6 months	Total ß radioactivity ³ H	Once/6 months	Total ß radioactivit ³ H	ND ND	Bq/L	0.067 ND		ND - 0.21 ND
	River-bottom soil	Shinkawa: 3 points Kuji river upstream: 1 point*	Once/6 months	Total ß radioactivity	Once/6 months	Total ß radioactivit	570 - 600	Bq/kg dry	700		450 - 720

(Note 1) ND: indicates below the determination limit.

(Note 2) *: indicates the comparative area.

(Note 3) The usual range of fluctuation of air radiation is that in the past 3 years from FY 2004 to FY 2006; the usual range of fluctuation of other measured objects is that in the past 10 years from FY 1997 to FY 2006. As for cumulative dose, howe

(Note 4) As for the usual range of fluctuation of air radiation, the top values indicate the min to max, and bottom values in parentheses indicate the average ±3a. Values of other measured objects indicate min to max.