Results of Additional Monitoring Survey of Environmental Radioactivity Levels in Fukushima Prefecture

April 24, 2011

Disaster Provision Main Office of Fukushima Pref. (Nuclear Power Team)

1. Monitoring date

Friday, April 22, 2011

2. Monitored facilities

(1) Monitoring at school buildings and outdoor areas of schools, etc.

Target facilities: 28 facilities (nine elementary schools, six junior high schools, four kindergartens, and nine nurseries)

Monitored facilities: 27 facilities (one target facility has submitted a notification of discontinuance)

(2) Monitoring at the sites of urban parks, etc.

Target facilities: 19 facilities (six high schools and 13 parks)

Monitored facilities: 19 facilities

3. Monitoring results

As a result of the additional monitoring, no school, etc. indicated readings of air dose rates equal to or higher than the government's provisional standard value (3.8 $\mu Sv/h$).

As for urban parks, etc., air dose rates equal to or higher than the government's provisional standard value were observed at the following five facilities.

			Monitored	value (μSv/h)
Category	Municipality	Monitored location	Present	Previous
			survey	survey
			(April 22)	(April 13–14)
			50 cm	1 m above
			above	ground
			ground	
Park	Fukushima	Shinobuyama Kodomo No	3.8	4.0
	City	Mori Park		
Park	Fukushima	Shinhama Park (one out of two	3.9	4.0

	City	locations)		
Park	Koriyama	Sakabuta Park (three out of	3.8–3.9	3.9
	City	four locations)		
Park	Nihonmatsu	Nissho Park	3.9	3.5
	City			
Park	Motomiya	Iwazuno Noson Park	3.9	3.6
	City			

4. Measures to be taken

(1) Schools, etc.

Among the 27 facilities monitored, the 26 facilities at which the air dose rate was measured below the government's provisional standard value (3.8 μ Sv/h) in both the present and previous surveys will not be restricted from use.

As for the one facility at which the rate exceeded the provisional standard value in the previous survey but fell below the provisional standard value in the present survey, an additional monitoring survey will be implemented roughly within a week.

(2) Sites of urban parks, etc.

(a) High schools

Among the six facilities monitored, the three facilities at which the air dose rate was measured below the government's provisional standard value (3.8 μ Sv/h) in both the present and previous surveys will not be restricted from use.

As for the three facilities at which the rate exceeded the provisional standard value in the previous survey but fell below the provisional standard value in the present survey, their use will continue to be restricted and an additional monitoring survey will be implemented roughly within a week.

(b) Urban parks

Among the 13 facilities monitored, the eight facilities at which the air dose rate was measured below the government's provisional standard value (3.8 $\mu Sv/h$) will not be restricted from use.

As for the five facilities at which the rate exceeded the provisional standard value, requests will be made to the municipalities in charge of the respective parks to restrict the use of those parks.

For these five facilities, an additional monitoring survey will be implemented roughly within a week.

(Example) To Park Visitors

During the environmental radioactivity monitoring implemented on April 22, 2011, radioactivity levels exceeding the standard value were observed at XX Park. Therefore, visitors are advised to consider the following matters when using the park.

- Please do not use the park any longer than approximately one hour per day.
- Please wash your hands and face, and gargle, after using the park.
- Please refrain from using the sand pit, and be careful not to let any soil or sand enter your mouth.

Nithorniation Normagistered Orisiana Nursery 4/22 14:50-15:50 3.1 2.4 1.0 — Cloudy 1.3 0.8 Milk R R R R R R R R R	Remarks		g (nea	ol buildi	Average v school b window/near)	(μSv/h	ose rate	ed air do	Monitore								
Nihormatsu					riour minaon		Weather			inside the school		covered		de the	outsi		location	Monitored lo	Category	Municipality	No.
Nicornates Nonepatient City University City Ci		cm	lm 5	0 cm	m 50	1 r		50 cm	1 m	1 m 50 cm		1 m 50 cm		1 m 50 cm							
2 Roriyama City Power	Playground is grass-covered. Additional monitoring to be implemented. (Readings on April 7: 3.9 µSv/h)	0.84 i		1.3			Cloudy	_		1.0		2.4	//	3.1		4/22 14:50–15:50	Ohisama Nursery				1
3 Nibromatation Public elementary School All Public elem	(readings erry prin 1: ere perriy)	_		0.57			Cloudy	0.32		0.46	/	2.0		3.1		4/22 9:58–10:30	ten	Emporium Kindergart		Koriyama City	2
A Nibromatsu Public Information Public Information Nibromatsu City Odalira Nibromatsu City Nib		0.19		0.49			Cloudy	0.29		0.34		1.6		2.9		4/22 13:00–13:40	ama		Public elementary		3
Social Content of the Content of t		0.22		0.53			Cloudy	0.22		0.38		1.6		2.8		4/22 9:35-11:10	aira		Public		4
Fukushima City Fuku	No monitoring implemented due to submission of a notification of discontinuance.	\ 1																		Koriyama City	5
Fukushima City Elementary School School				0.15	\		Cloudy	0.26		0.14		0.90		2.1		4/22 9:10–10:08	Elementary		elementary	Fukushima City	ε
September Color		0.15		0.19	\		Cloudy	0.23		0.17		2.0		2.5		4/22 9:17-10:08	-	School	Public elementary school	Fukushima City	7
Pukushima City			0.21	/	0.24	0.	Cloudy		0.26		0.22		1.2		2.5	4/22 6:45-7:45	ushima Dai-yon	Fukushima City Fuku: Junior High School		Fukushima City	8
Fukushima City Fuku		$\overline{\ }$	0.14		0.56	0.	Cloudy		0.22		0.35	\leq	1.0		2.3	4/22 15:14-16:13	Fukushima City Fukushima Dai-san		Public junior	Fukushima City	9
Fukushima City Nonregistered Tokujinkai Fuji Hospital Nursery 4/22 9:13-10:25 2.6 1.7 0.91 Cloudy 1.1 0.74		0.24		0.42			Cloudy	0.20		0.33		1.3		2.7		4/22 12:45-13:25			Registered	Fukushima City	10
12 Nihonmatsu Public junior School Sch		0.74	$\overline{}$	1.1			Cloudy	_		0.91		1.7		2.6		4/22 9:13-10:25	ital Nursery	Tokujinkai Fuji Hospital Nursery		Fukushima City	11
Nihormatsu Public junior Nihormatsu City Towa Junior High School Schoo		0.13		0.15			Cloudy	0.20		0.14		0.70		2.7		4/22 15:20–16:35	onmatsu Kita		Public elementary		12
Nihommatsu		eg	0.17		0.56	0.	Cloudy		0.27		0.36	$\overline{}$	1.1		2.3	4/22 9:40-10:30	va Junior High		Public junior		13
Motomiya City Public Motomiya City Mot	A single location has been monitored once.			1.3			Cloudy	1.1		0.99		2.1		3.1		4/22 8:45-9:15			Nonregistered	Nihonmatsu	14
Private Koriyama City Registered runsery A/22 10:53-11:25 3.2 2.1 0.24 0.19 Sunny 0.31 0.17	International Office.			0.20		//	Cloudy	0.20		0.22	\leq	1.9	//	J		4/22 9:00–11:20		Motomiya	Public elementary	- /	15
Registered Fukushima City Public Elementary School Elementary Element		0.17		0.31	\ \		Sunny	0.19		0.24		2.1		3.2		4/22 10:53-11:25	rten		Private	Koriyama City	16
Public P		0.20		0.37	\ \		Sunny	_		0.35		1.8		2.8		4/22 12:52-13:50		Tsurumidan Nursery	Registered	Koriyama City	17
Pukushima City Public pu		0.15		0.17			Cloudy	0.38		0.16		2.0		2.9		4/22 10:00-11:30	ıshima Dai-yon		Public elementary	Fukushima City	18
Public P			0.14	/	0.22	0.	Cloudy		0.23		0.18		1.2		2.3	4/22 10:48-11:30	Junior High			Fukushima City	19
21 Nihonmatsu City Public dementary School Nihonmatsu City Odaira Elementary School 2.1 1.6 0.24 0.27 Cloudy 0.32 0.15		0.18		0.61			Cloudy	0.22		0.40		1.6		2.4		4/22 10:47-11:33	yama	Fukushima City Okay	Public	Fukushima City	20
23 Motomiya City Motomiy		0.15		0.32			Cloudy	0.27		0.24		1.6		2.1		4/22 11:20–13:05	aira Elementary	Nihonmatsu City Oda	Public elementary school	City	21
23 Motomiya City Public junior Public junior Motomiya City Shirasawa Junior 4/22 11:40 -13:00 2.1 1.4 0.48 0.30 Cloudy 0.58 0.38 0.38 0.35 Cloudy 0.24 0.16 Cloudy 0.24 Cloudy 0.24 Cloudy 0.24 0.16 Cloudy 0.24		0.77	$ egthinspace{1.5em} $	0.93	$\sqrt{}$		Cloudy	0.86		0.85		2.3		3.0		4/22 14:45–15:20	,		Registered		22
24 Motomiya City Public junior high school Motomiya City Shirasawa Junior High School Motomiya City S		$\overline{\ }$	0.38		0.58	0.	Cloudy		0.30		0.48	$\overline{}$	1.4		2.1	4/22 11:40-13:00	Junior High School		Public junior	Motomiya City	23
25 Motomiya City Registered nursery Motomiya Dai-san Nursery 4/22 8:50-9:20 2.3 1.6 0.38 0.35 Cloudy 0.44 0.31		<	0.16		0.24	0.	Cloudy		0.24		0.20	$\overline{}$	1.6		2.5	4/22 10:30-11:30	Motomiya City Shirasawa Junior		Public junior	Motomiya City	24
		0.31	$ egthinspace{-1mm} egthinspa$	0.44			Cloudy	0.35		0.38		1.6		2.3		4/22 8:50-9:20			Registered	Motomiya City	25
26 Motomiya City Registered nursery Motomiya Dai-ichi Nursery 4/22 13:00-15:00 2.8 2.0 0.57 — Cloudy 0.73 0.41		0.41		0.73			Cloudy	_	$\overline{}$	0.57	$\overline{}$	2.0	$\overline{}$	2.8		4/22 13:00-15:00	Motomiya Dai-ichi Nursery		Registered	Motomiya City	26
27 Koriyama City Public Roriyama City Momomidai Elementary school 4/22 10:05–10:55 2.4 1.6 0.14 0.27 Cloudy 0.15 0.13		0.13		0.15			Cloudy	0.27		0.14		1.6		2.4		4/22 10:05–10:55	omidai		Public elementary	Koriyama City	27
28 Koriyama City Public elementary school Koriyama City Takakura Elementary 4/22 9:00–10:20 2.8 2.0 0.25 0.26 Cloudy 0.30 0.19		0.19		0.30			Cloudy	0.26		0.25		2.0		2.8		4/22 9:00–10:20	ura Elementary		Public elementary	Koriyama City	28

^{*}Considering the possible variance in rates by the monitored location, additional monitoring will be implemented for parks with readings of 3.4 µSv/h or higher, which is 10% stricter than the standard value (3.8 µSv/h).

Results of Additional Monitoring Survey of Environmental Radioactivity Levels in Fukushima Prefecture (High Schools/Parks)

					Monitoring		N	Monitore	ed air do	ose rate	(μSv/h)			buildin	ge value ins g (window building)	side/mi			
N	D. N	/lunicipality	Category	Monitored location	date/time	value o		Cond cove gro	ered und	value the s		Gymn		Weather	av	Window side average		e of ng ige	Remarks	
	_					1 m	50 cm	1 m	50 cm	1 m	50 cm	1 m	50 cm		1 m	50 cm	1 m	50 cm		
	1 F	ukushima City	High school	Fukushima Toryo High School	4/22 10:25–11:40	3.2		1.6		0.25		0.22		Cloudy	0.30		0.19		monitoring to be implemented s on April 13: 4.2 µSv/h)	
	2 F	ukushima City	High school	Fukushima Seikei High School	4/22 12:05–13:10	3.2		1.6		0.20		0.19		Cloudy	0.32		0.09	\	monitoring to be implemented s on April 13: 4.1 µSv/h)	
	3 F	ukushima City	High school	Tachibana High School	4/22 13:00–14:15	3.1		2.0	$\overline{\ }$	0.33		0.20		Cloudy	0.47		0.19	Additional	monitoring to be implemented s on April 13: 3.8 μSv/h)	
	4 F	ukushima City	High school	Fukushima Chuo High School/Fukushima Minami High School	4/22 13:00–14:30	3.4		1.8		0.31		0.26		Cloudy	0.46		0.17			
	5 K	oriyama City	High school	Koriyama Commercial High School	4/22 13:06–14:35	2.7		1.9		0.33		0.25		Cloudy	0.49		0.16			
	6 F	ukushima City	High school	Fukushima Higashi High School	4/22 10:30–11:30	2.7		1.3		0.26		0.26		Cloudy	0.39		0.13			

No.	Municipality	Category	Monitored location	Monitoring date/time					ored air	dose ra	te (µSv	/h)	Middle of	f park	Weather			Remarks	
					1 m	50 cm				50 cm	1 m	50 cm	average 1 m	ge 50 cm			50 cm		
1	Fukushima City	Park	Shinobuyama Kodomo No Mori Park	4/22 13:40–14:00		3.3		3.3	$\overline{\ }$	4.3		4.2		3.7	Cloudy		3.8	Additional monitoring to be implemented (Readings on April 13: 4.0 µSv/h)	
2	Fukushima City	Park	Shinhama Park	4/22 12:20–12:40		3.9		4.0		3.9		3.7		4.1	Cloudy			Shibafu Hiroba Additional monitoring to be implemented	
				4/22 12:00-12:20	/	2.8		3.1	<u> </u>	3.0		2.9		3.1			3.0	Kinrin No Niwa (Readings on April 13: 4.0 μSv/h)	
				4/22 9:15–9:25		4.2		3.7		3.9		4.0		3.8			3.9	Northwestern part	
3	Koriyama City	Park	Sakabuta Park	4/22 8:55–9:10		3.5		4.2		3.7		3.8		4.2	Cloudy		3.9	Southwestern part Additional monitoring to be implemented	
				4/22 9:04–9:19		3.7		3.5		3.3	/	4.0		3.3			3.6	Southeastern part (Readings on April 14: 3.9 µSv/h)	
				4/22 8:45-8:58	/	3.7		3.8	<u> </u>	3.9	/	3.8		3.7				Northeastern part	
	Fukushima City	Park	Sugawara Park	4/22 9:10-10:00		2.9		3.4	\geq	2.8	/	2.8		2.9	Cloudy		3.0		
5	Fukushima City	Park	Nankodai Dai-san Park	4/22 11:10-11:20		3.5		3.6	\geq	3.6		3.8		4.0	Cloudy		3.7		
			Sugita-Nakanouchi	4/22 8:45–8:58		3.5		3.6		3.4		3.4		3.7			3.5	Northern part	
6	Nihonmatsu City	Park	Danchi Park	4/22 9:00–9:12		2.8		2.8		2.5		3.2		3.1	Cloudy			Western part	
				4/22 9:19-9:30	/	3.3		3.3		3.0	/	3.0		3.0			3.1	Southern part	
7	Motomiya City	Park	Iwazuno Noson Park	4/22 9:10–10:10		4.1		3.9		3.8		3.7		4.1	Cloudy		3.9	Additional monitoring to be implemented (Readings on April 13: 3.6 μSv/h)	
8	Nihonmatsu City	Park	Kanairo-Kubo Park	4/22 9:15-9:45	/	2.5	/	2.3	/	2.2	/	2.1		2.6	Cloudy	/	2.3		
9	Nihonmatsu City	Park	Nissho Park	4/22 13:15–13:45		4.3		3.9		3.9		3.8		3.5	Cloudy		3.9	Additional monitoring to be implemented (Readings on April 13: 3.5 μSv/h)	
10	Fukushima City	Park	Inaba Park	4/22 10:30-11:20		3.1		3.1	$\overline{}$	3.1		2.9	$\overline{}$	3.4	Cloudy		3.1		
11	Nihonmatsu City	Park	Wakamiya Park	4/22 10:23-10:37		2.8		3.0		3.2		3.2		3.3	Cloudy		3.1		
12	Nihonmatsu City	Park	Mukaihara Park	4/22 8:35-8:50		2.5		2.5	$\overline{}$	2.5	/	2.6		2.8	Cloudy		2.6		
13	Nihonmatsu City	Park	Shonan Danchi Park	4/22 10:37–10:47		3.2		3.3		2.3		2.8		3.2	Cloudy			Northern part	
		0		4/22 10:21–10:31		2.4		2.7		2.7		2.5		2.8			2.6	Western part	

^{*} Considering the possible variance in rates by the monitored location, additional monitoring will be implemented for parks with readings of 3.4 µSv/h or higher, which is 10% stricter than the standard value (3.8 µSv/h).

Plan for Additional Monitoring Survey of Environmental Radioactivity Levels in Fukushima Prefecture

April 20, 2011

Disaster Provision Main Office of Fukushima Pref.(Nuclear Power Team)

1. Purpose

Yesterday, the national government indicated an "interim policy regarding decisions on whether to utilize school buildings and outdoor areas within Fukushima Prefecture" and an "interim policy regarding decisions on whether to utilize buildings and outdoor areas of nurseries, etc. within Fukushima Prefecture," in which it advised that facilities with outdoor areas where radioactivity readings were equal to or higher than 3.8 µSv/h be restricted from use. Accordingly, additional monitoring will be implemented at schools, urban parks, etc. (excluding facilities subject to monitoring by the national government) in order to ensure the safety and security of the living environments of the residents of Fukushima Prefecture.

2. Target areas and monitoring timing

(1) Monitoring at school buildings and outdoor areas of schools, etc.

Among the elementary schools, junior high schools, special support schools, kindergartens, and nurseries where monitoring was implemented by Fukushima Prefecture, additional monitoring of the radiation dose will be implemented based on the monitoring method indicated by the national government at those facilities with a schoolyard or playground where readings were equal to or higher than 3.4 μ Sv/h, which is 10% stricter than the limit value (excluding the 14 facilities in zones that are planned to be designated as Planned Evacuation Zones and Emergency Evacuation Preparation Zones and the 52 facilities with readings equal to or higher than 3.7 μ Sv/h where additional monitoring was implemented by the national government).

Monitoring targets: 28 locations

Monitored spots: Five spots in the schoolyard or playground; six spots in a building; one spot in the gymnasium; and one spot on a concrete-covered site outdoors.

(2) Monitoring at the sites of urban parks, etc.

Among the high schools and urban parks where monitoring was implemented by Fukushima Prefecture, additional monitoring of radiation doses will be implemented based on the monitoring method indicated by the national government at those high schools with outdoor areas or urban parks with sites where readings were equal to or higher than 3.4 μ Sv/h (excluding the two facilities in zones that are planned to be designated as Planned Evacuation Zones and Emergency Evacuation Preparation Zones).

Monitoring targets: 6 high schools and 13 urban parks (total of 19 facilities)

Monitored spots: In the case of high schools, five spots in the schoolyard, six spots in a building, one spot in the gymnasium, and one spot on a concrete-covered site outdoors. In the case of urban parks, five spots on the site.

- (3) The monitoring will be carried out promptly during clear weather, and will be generally completed within the same day.
- 3. Personnel framework
- (1) Cooperation of the facility manager, etc.

Each school, etc. will cooperate in making prior selection of the monitoring spots in the outdoor areas and buildings of the school, etc. and in guiding the monitoring team within the facility. The same shall apply to urban parks.

(2) Survey teams

Survey teams will be formed as follows with the cooperation of the members of the Federation of Electric Power Companies of Japan, etc.

20 teams (40 members)

Each team will carry out monitoring at three facilities per day.

4. Monitoring method, etc.

(1) Elementary schools, kindergartens, and nurseries

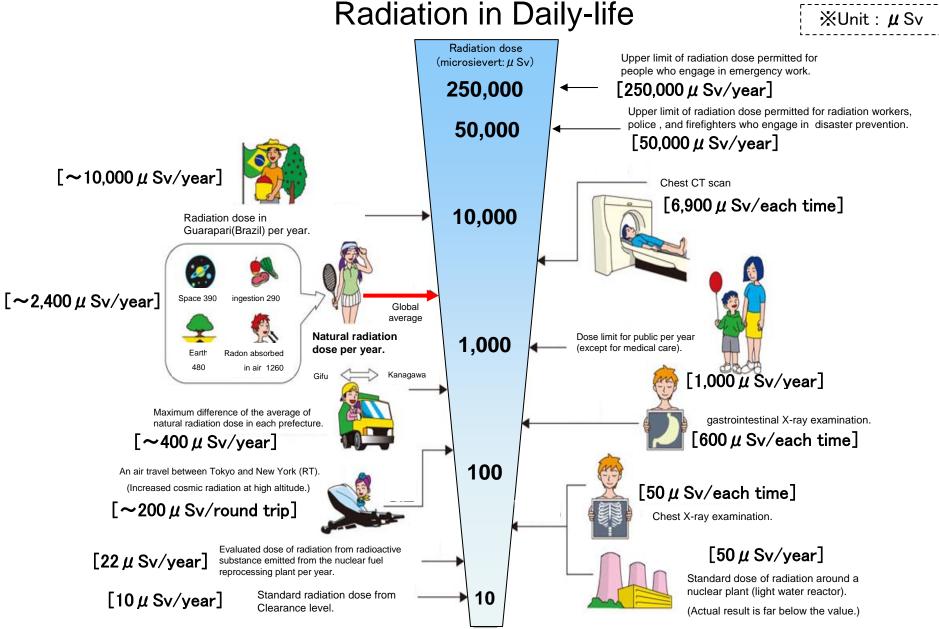
The air dose at 50 cm above ground will be monitored both indoors and outdoors.

(2) Junior high schools and high schools

The air dose at 1 m above ground will be monitored both indoors and outdoors.

(3) Urban parks

The air dose at 50 cm above ground will be monitored outdoors.



Sv [Sievert] = Constant of organism effect by kind of radiation(*) × Gy [gray]

X It is 1 in case of X ray and γ ray.

MEXT makes this, based on "Nuclear power 2002" made by Agency of Natural Resources and Energy.