

March 27, 2011

Nuclear and Industrial Safety Agency

Seismic Damage Information (the 56th, 57th Release)  
(As of 15:30 March 27th, 2011)

Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa NPS, Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

Major updates are as follows.

1. Nuclear Power Stations (NPSs)

● Fukushima Dai-ichi NPS

- Water spray for Unit 3 using Concrete Pump Truck (50t/h) was carried out. (From 12:34 till 14:36 March 27th)
- As the result of nuclide analysis at around the south Water Discharge Canal Gate,  $7.4 \times 10^1 \text{Bq/cm}^3$  of  $^{131}\text{I}$  (Iodine) (1850.5 times higher than the limit of concentration of water outside the Environmental Monitoring Area) was detected. (14:30 March 26th)

For more information:

NISA English Home Page

<http://www.nisa.meti.go.jp/english/index.html>

Seismic Damage Information (the 55th Release)  
(As of 18:30 March 26th, 2011)

Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa NPS, Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

Major updates are as follows.

1. Nuclear Power Stations (NPSs)

● Fukushima Dai-ichi NPS

- Lighting in the Central Operation Room of Unit 2 was recovered.  
(16:46 March 26th)

For more information:

NISA English Home Page

<http://www.nisa.meti.go.jp/english/index.html>

Fukushima Di-ichi Nuclear Power Station Major Parameters of the Plant (As of 6:00, March 27th)

Unit No.	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Situation of water injection	Injecting freshwater via the Water Supply Line. Flow rate of injected water : 120 ℓ/min (As of 15:37, March 25th) temporary measuring instrument	Injecting freshwater via the Fire Extinguish Line. Flow rate of injected water :270 ~280ℓ/min (As of 17:22, March 26th) temporary measuring instrument	Injecting freshwater via the Fire Extinguish Line. Flow rate of injected water: 220 ℓ/min (As of 18:00, March 26th) temporary measuring instrument	Under shutdown	Under shutdown	Under shutdown
Reactor water level	Fuel range A : -1,650mm Fuel range B : -1,600mm (As of 5:00, March 27th)	Fuel range A : -1,200mm (As of 5:00, March 27th)	Fuel range A:-1,850mm Fuel range B:-2,300mm (As of 4:45, March 27th)	#2	Shutdown range measurement 2,034mm (As of 6:00, March 27th)	Shutdown range measurement 2,148mm (As of 6:00, March 27th)
Reactor pressure	0.371MPa g(A) 0.407MPa g(B) (As of 5:00, March 27th)	-0.018MPa g (A) -0.018MPa g (B) (As of 5:00, March 27th)	0.029MPa g (A) -0.099MPa g (C) (As of 4:45, March 27th)	#2	0.007MPa g (As of 6:00, March 27th)	0.003MPa g (As of 6:00, March 27th)
Reactor water temperature	( Impossible collection due to low system flow rate )			#2	43.2℃ (As of 6:00, March 27th)	49.4℃ (As of 6:00, March 27th)
Reactor Pressure Vessel (RPV) temperature	Feedwater nozzle temperature: 212.8℃ (As of 5:30, March 27th) Temperature at the bottom head of RPV: 141.7℃ (As of 5:00, March 27th)	Feedwater nozzle temperature: 123.9℃ Temperature at the bottom head of RPV: 96.6℃ (As of 5:00, March 27th)	Feedwater nozzle temperature: -1.7℃ (under survey) Temperature at the bottom head of RPV: 106.8℃ (As of 4:45, March 27th )	Unit 4 No heating element (fuel) inside the reactor Unit 5,6 Monitoring by the reactor water temperature		
D/W*1 Pressure, S/C*2 Pressure	D/W: 0.270MPa abs S/C: 0.270MPa abs (As of 5:00, March 27th)	D/W: 0.110MPa abs S/C:0.040MPa abs (under survey) (As of 5:00, March 27th)	D/W: 0.1073MPa abs S/C: 0.1804MPa abs (As of 4:45, March 27th)	#2		
CAMS*3	D/W: $3.40 \times 10^1$ Sv/h S/C: $2.25 \times 10^1$ Sv/h (As of 5:00, March 27th)	D/W: $4.19 \times 10^1$ Sv/h S/C: $1.43 \times 10^0$ Sv/h (As of 5:00, March 27th )	D/W: $3.42 \times 10^1$ Sv/h S/C: $1.34 \times 10^0$ Sv/h (As of 4:45, March 27th)	#2		
D/W*1 design operating pressure	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	#2		
D/W*1 maximum operating pressure	0.427MPa g(0.528MPa abs)	0.427MPa g(0.528MPa abs)	0.427MPa g(0.528MPa abs)	#2		
Spent Fuel Pool water	#1	70℃ (As of 5:00, March 27th)	#1	#1	34.6℃ (As of 6:00, March 27th)	20.5℃ (As of 6:00, March 27th)
FPC skimmer level	4500mm (As of 5:00, March 27th)	5750mm(under prow) (As of 5:00, March 27th)	#1	5850mm (As of 4:45, March 27th)	#2	

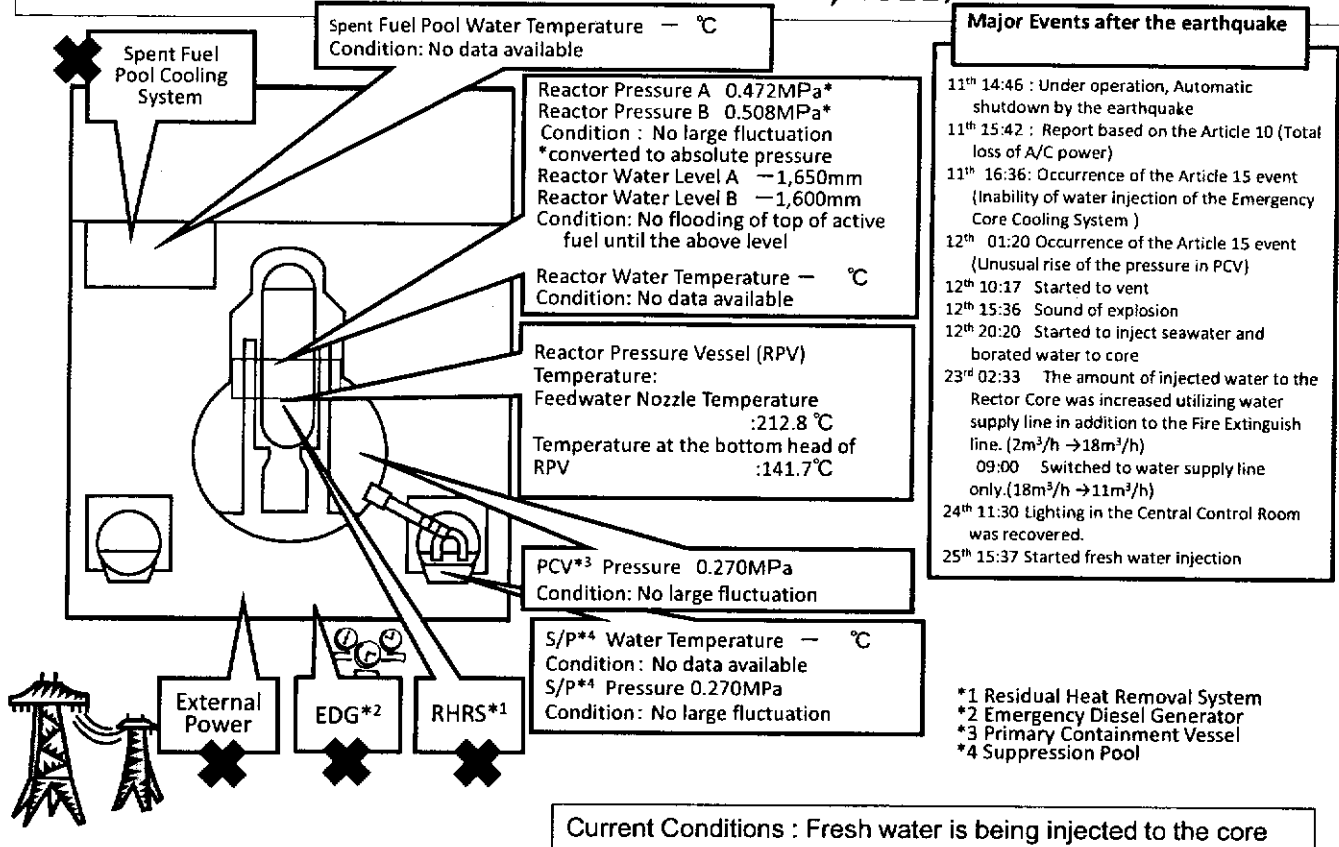
Power supply	Receiving external power supply (P/C*4 2C)	Receiving external power supply (P/C4D)	Receiving external power supply
Other information	Unit3: Collecting the data of RPV temperature and continuing survey for transitional situation Unit2: Confirmed the indicated value of S/C Pressure but continuing to survey the transition of condition	Common pool: about 43°C (As of 15:30, March 26th)	

Pressure conversion	$\text{Gauge pressure (MPa g)} = \text{Absolute pressure (MPa abs)} - \text{Atmospheric pressure (Normal atmospheric pressure 0.1013MPa)}$ $\text{Absolute pressure (MPa abs)} = \text{Gauge pressure (MPa g)} + \text{Atmospheric pressure (Normal atmospheric pressure 0.1013MPa)}$
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- \*1 D/W : Dry Well
- \*2 S/C : Suppression Chamber
- \*3 CAMS : Containment Atmospheric Monitoring System
- \*4 P/C : Power Center

- #1 : Measuring instrument malfunction
- #2 : Except from data collection

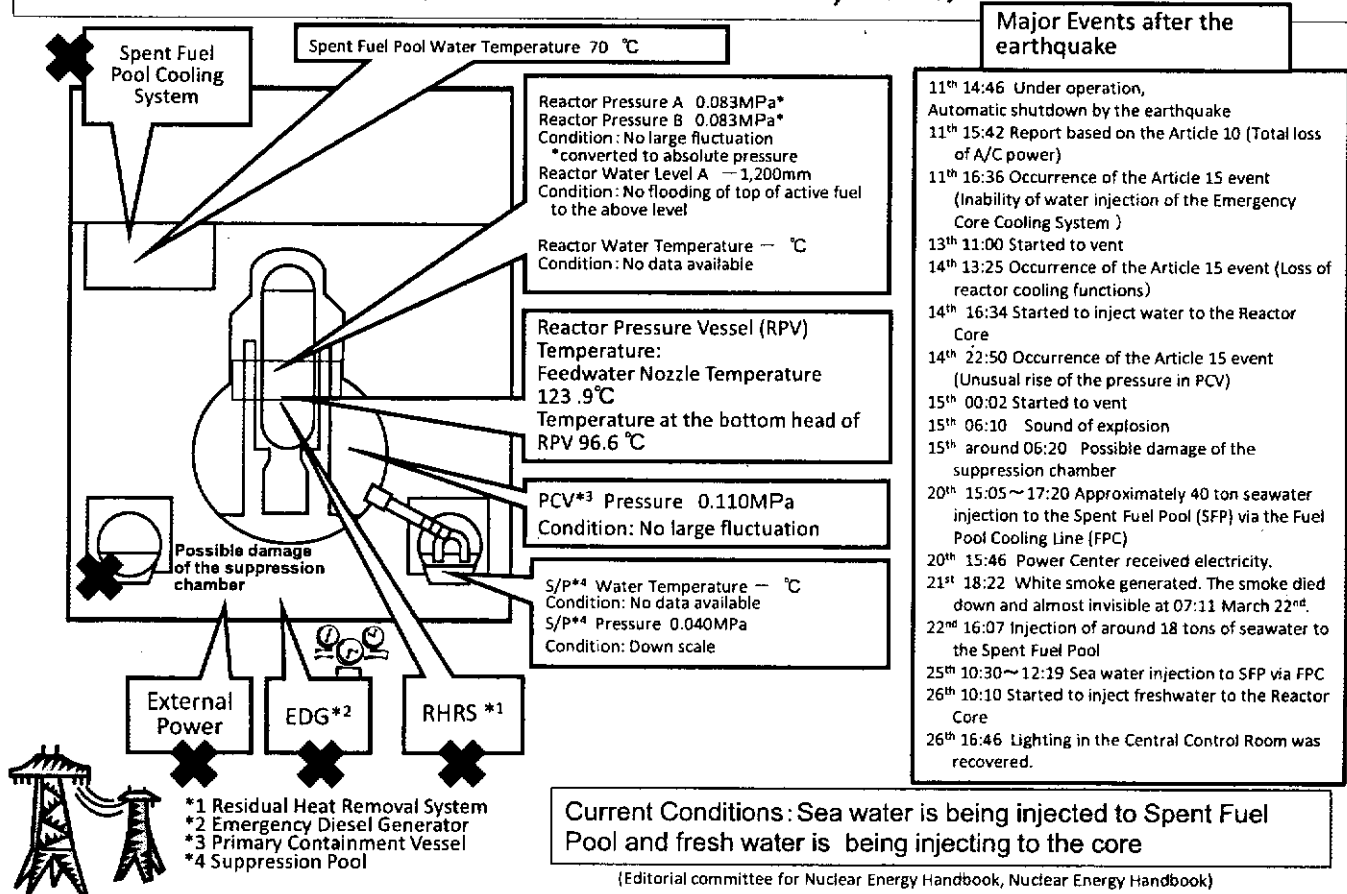
# Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 1 (As of 6:00 March 27th, 2011)



**Current Conditions : Fresh water is being injected to the core**

(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

# Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 2 (As of 6:00 March 27th, 2011)

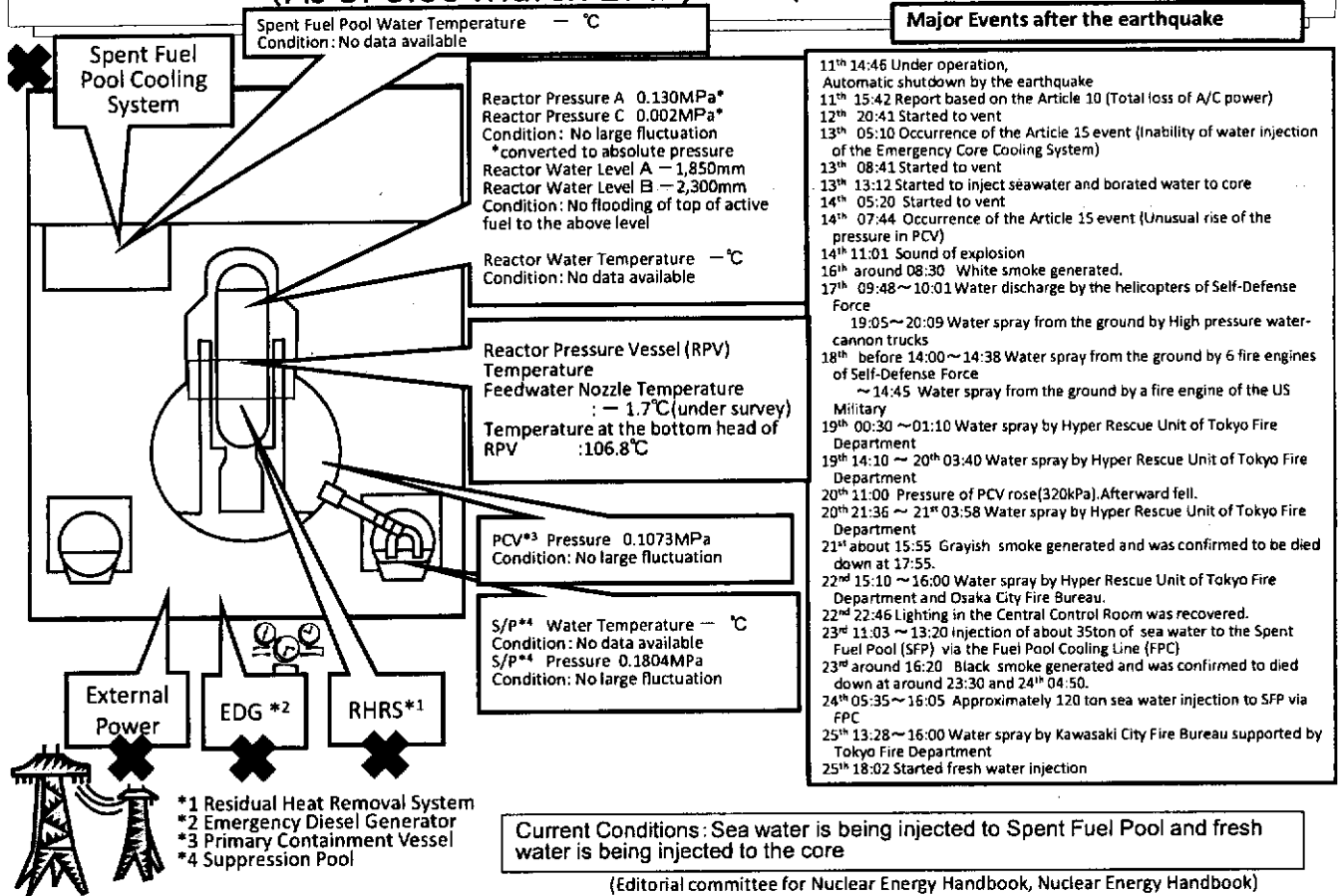


**Current Conditions : Sea water is being injected to Spent Fuel Pool and fresh water is being injecting to the core**

(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

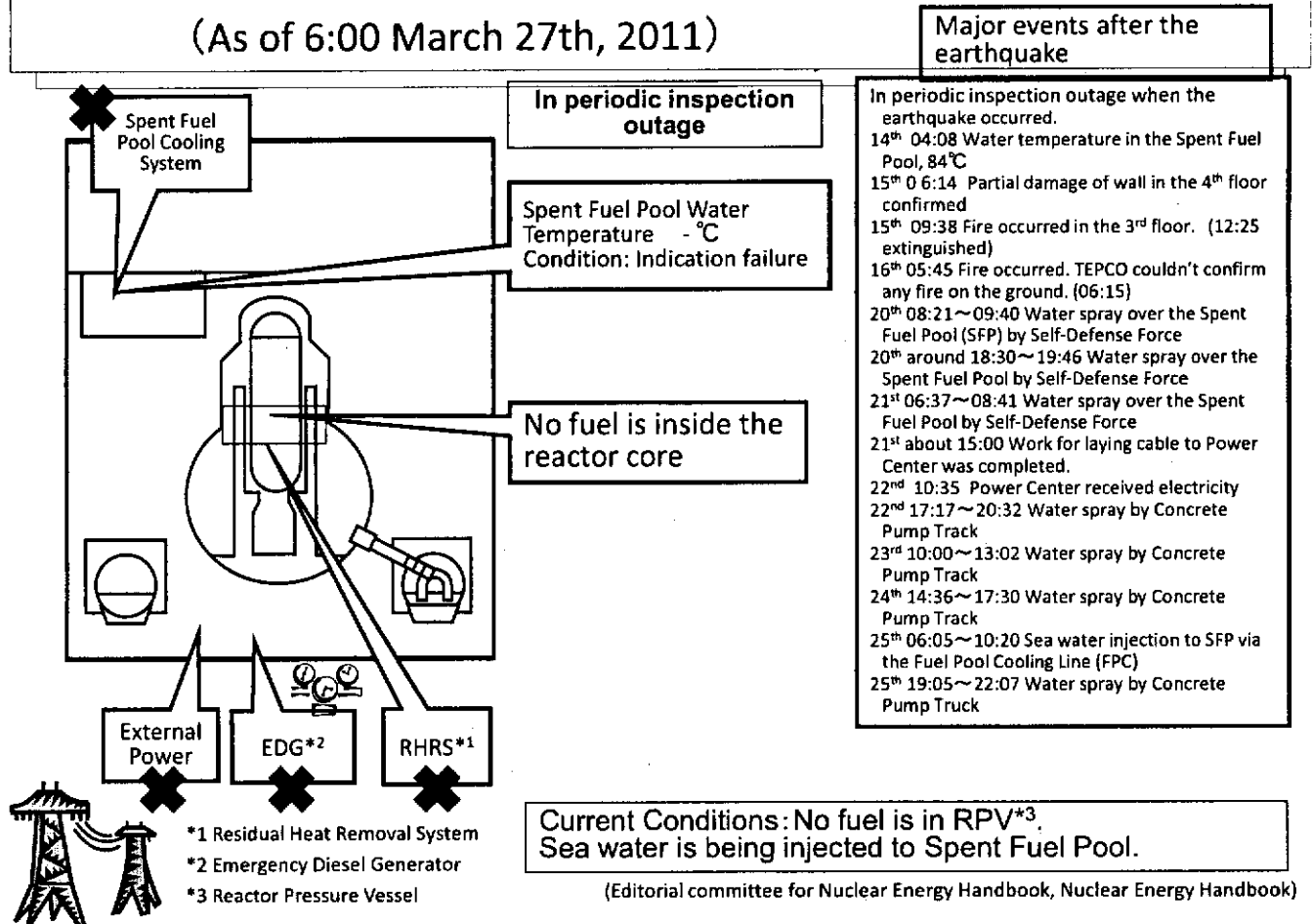
# Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 3

(As of 6:00 March 27th, 2011)

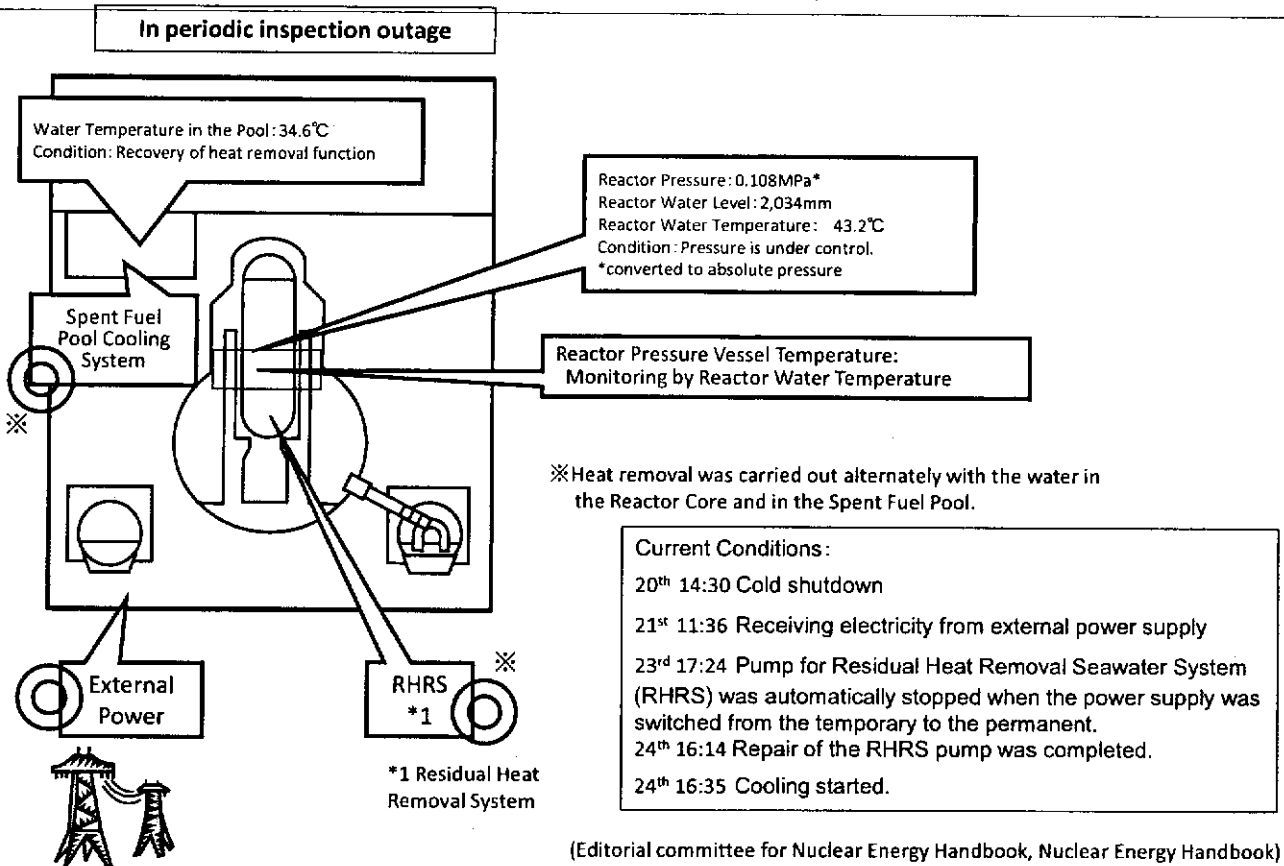


# Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 4

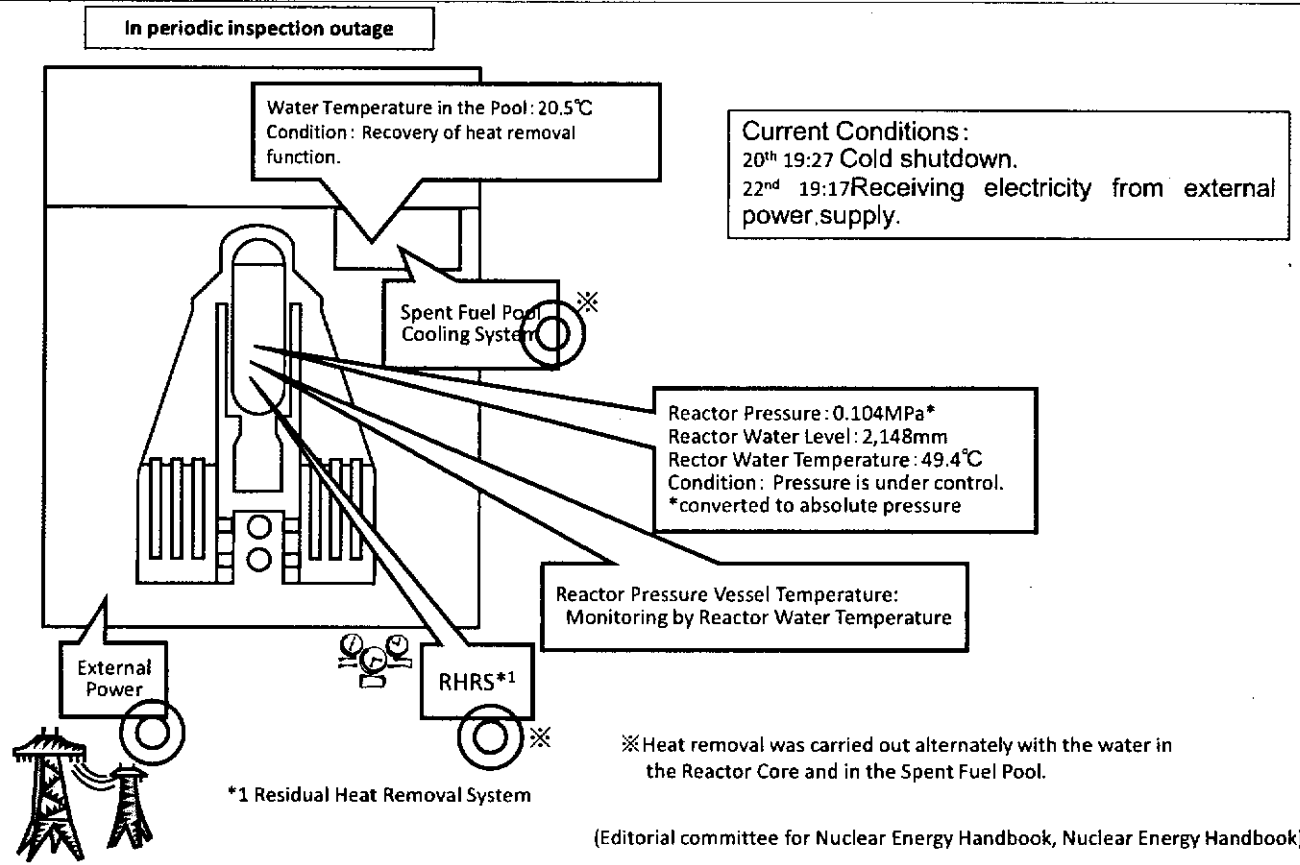
(As of 6:00 March 27th, 2011)



# Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 5 (As of 6:00 March 27th, 2011)



# Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 6 (As of 6:00 March 27th, 2011)







March 26th, 2011

Fukushima Dai-ichi  
Monitoring points

- ① North side of main office building (approx. 0.5km from Unit 2 in northwest direction)  
 ② Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction)  
 ③ Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction)  
 ④ Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westnorthwest direction)  
 ⑤ Front of Earthquake Isolation Building ( approx. 0.5km from Unit2 innorthwest dirction)  
 ⑥ SMOB : South Side of Main Office Building  
 ⑦ MG: Main Gate

Monitoring points		③																							
Reading time		12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:50
MC	Reading( $\mu$ Sv/h)	146.8	146.8	146.8	146.6	146.8	146.8	146.7	146.7	146.7	146.6	147.2	147.0	146.9	146.9	146.8	146.7	146.7	146.6	146.6	146.2	146.4	146.0	146.0	146.0
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
TMP	⑥ SMOB(mSv/h)	1,330	—	—	1,340	—	—	1,340	—	—	1,330	—	—	1,320	—	—	1,320	—	—	1,310	—	—	1,300	—	—
	⑦ MG( $\mu$ Sv/h)	221	—	—	222	—	—	220	—	—	221	—	—	222	—	—	220	—	—	217	—	—	218	—	—
	③ WG( $\mu$ Sv/h)	N.D	—	—	N.D	—	—	N.D	—	—	N.D	—	—	N.D	—	—	N.D	—	—	N.D	—	—	98.7	—	—
wind direction		N	W	NW	W	NNW	N	NW	W	NNW	NW	WNW	NW	WNW	W	WNW	NW	NW	NW	NW	NW	NW	NW	N	W
wind speed (m/s)		2.4	3.7	3.8	4.5	3.4	3.4	3.4	4.3	3.4	3.1	3.4	3.3	3.6	3.5	3.8	3.0	2.6	2.2	2.4	2.4	3.5	2.8	2.6	1.9

Monitoring points		③																							
Reading time		16:00	16:10	16:20	16:30	16:40	16:50	17:00	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50
MC	Reading( $\mu$ Sv/h)	145.9	145.8	145.8	145.5	145.4	145.4	145.3	145.2	145.2	145.0	145.0	144.6	144.5	144.7	144.4	143.9	144.1	144.2	143.9	143.8	143.5	143.5	143.3	143.4
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
TMP	⑥ SMOB(mSv/h)	1,300	—	—	1,300	—	—	1,290	—	—	1,300	—	—	1,290	—	—	1,300	—	—	1,310	—	—	1,300	—	—
	⑦ MG( $\mu$ Sv/h)	218	—	—	217	—	—	216	—	—	215	—	—	215	—	—	214	—	—	214	—	—	213	—	—
	③ WG( $\mu$ Sv/h)	98	—	—	98	—	—	100	—	—	98	—	—	100	—	—	99	—	—	98	—	—	100	—	—
wind direction		WNW	NNW	NW	WNW	NW	NW	NNW	WNW	NW	NW	NW	WNW	NW	NW	WNW	WNW	NW	N	NNE	N	NW	NNW	E	NNW
wind speed (m/s)		2.5	2.3	2.7	2.8	2.8	2.4	2.7	2.6	2.0	2.2	2.2	2.5	2.0	1.7	1.7	1.4	0.7	0.6	0.7	0.6	0.5	0.4	0.3	0.7

Monitoring points		③																							
Reading time		20:00	20:10	20:20	20:30	20:40	20:50	21:00	21:10	21:20	21:30	21:40	21:50	22:00	22:10	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50
MC	Reading( $\mu$ Sv/h)	143.0	143.1	143.0	143.0	142.8	142.9	142.8	142.7	142.8	142.5	142.6	142.0	141.8	141.5	141.3	141.2	141.1	141.1	140.9	140.8	140.8	140.8	140.7	140.4
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
TMP	⑥ SMOB(mSv/h)	1,310	—	—	1,310	—	—	1,320	—	—	1,320	—	—	1,310	—	—	1,320	—	—	1,320	—	—	1,310	—	—
	⑦ MG( $\mu$ Sv/h)	212	—	—	212	—	—	212	—	—	213	—	—	211	—	—	211	—	—	213	—	—	212	—	—
	③ WG( $\mu$ Sv/h)	101	—	—	100	—	—	101	—	—	98.3	—	—	100	—	—	101	—	—	99.5	—	—	98.6	—	—
wind direction		WNW	WNW	WNW	W	WSW	W	WNW	WNW	WNW	W	W	WSW	W	N	NW	WSW	W	W	WNW	WNW	W	WNW	WNW	WNW
wind speed (m/s)		1.1	1.4	1.8	2.0	0.8	0.7	1.6	2.2	1.8	0.9	1.5	0.9	1.1	1.3	0.5	0.9	1.5	1.1	1.6	1.7	1.6	1.3	1.0	1.2

MC: Monitoring car

TMP: Transportable Monitoring Post

March 26th, 2011

Fukushima Dai-ichi  
Monitoring points

- ① North side of main office building (approx. 0.5km from Unit 2 in northwest direction)
- ② Near Gymnasium (East side of MP-5) (approx. 0.9km from Unit 2 in westnorthwest direction)
- ③ Near West Gate (near MP-5) (approx. 1.1km from Unit 2 in west direction)
- ④ Front of near Main Gate (near MP-6) (approx. 1.0km from Unit 2 in westnorthwest direction)
- ⑤ Front of Earthquake Isolation Building ( approx. 0.5km from Unit2 innorthwest dirction)

Monitoring points		④																							
Reading time		0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MC	Reading(μ Sv/h)	184.4	184.0	183.8	183.2	182.8	182.7	182.5	182.4	182.3	182.1	181.8	180.8	179.9	178.1	176.6	175.5	174.4	173.0	172.4	171.0	170.7	169.8	169.2	169.5
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
Car	SMOB(mSv/h)*	1,460	—	—	1,460	—	—	1,450	—	—	1,440	—	—	1,440	—	—	1,420	—	—	1,390	—	—	1,370	—	—
	MG(μ Sv/h)*2	241	—	—	238	—	—	235	—	—	235	—	—	233	—	—	230	—	—	224	—	—	221	—	—
	WG(μ Sv/h)*3	117	—	—	117	—	—	114	—	—	115	—	—	114	—	—	110	—	—	109	—	—	108	—	—
	wind direction	NW	NW	W	NW	NNW	NNW	NW	NW	W	NW	NW	NW	N	NNW	NNW	N	NNW	N	N	NNW	NNW	NW	NW	NW
wind speed (m/s)		2.3	1.8	2.5	2.2	2.6	3.2	3.2	2.7	2.4	2.7	1.9	3.0	5.3	4.0	2.9	3.5	3.2	5.0	5.9	3.7	3.0	3.0	2.7	2.9

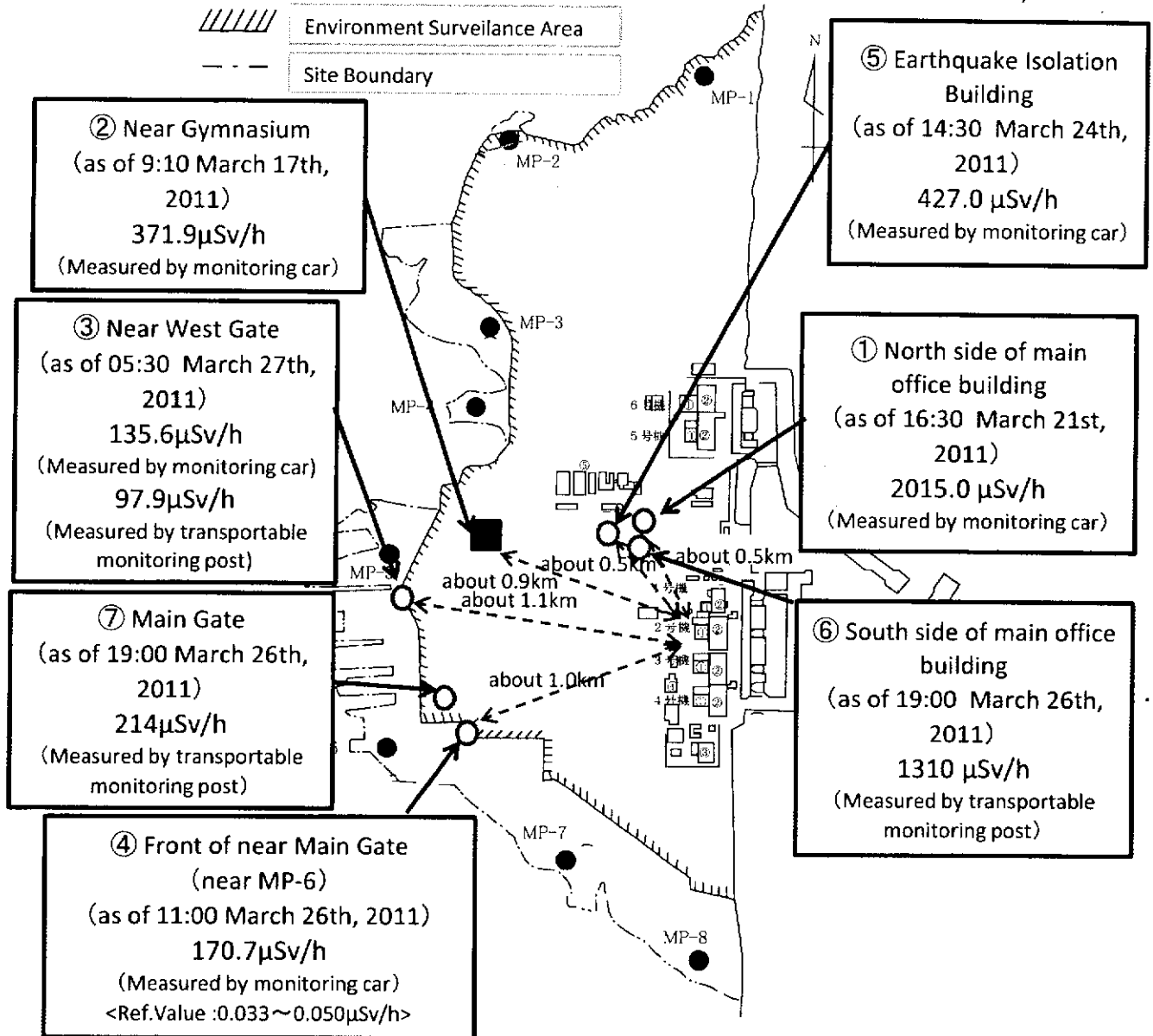
\*1: SMOB : South Side of Main Office Building  
\*2: MG: Main Gate  
\*3: WG:West Gate

Monitoring points		④																							
Reading time		4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
MC	Reading(μ Sv/h)	169.2	169.1	168.1	167.8	167.1	167.1	166.9	167.1	167.4	167.6	167.8	168.0	169.0	168.0	168.3	169.2	169.6	169.7	169.5	169.0	169.8	170.0	169.9	170.1
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
Car	SMOB(mSv/h)*	1,370	—	—	1,360	—	—	1,360	—	—	1,370	—	—	1,370	—	—	1,380	—	—	1,370	—	—	1,380	—	—
	MG(μ Sv/h)*2	219	—	—	217	—	—	218	—	—	217	—	—	221	—	—	221	—	—	219	—	—	219	—	—
	WG(μ Sv/h)*3	107	—	—	105	—	—	105	—	—	105	—	—	108	—	—	105	—	—	106	—	—	105	—	—
	wind direction	NW	NW	NW	NW	NW	N	NW	N	NNW	NW	NW	NW	NW	NW	WNW	NW	NW	NNW	NW	WNW	WNW	NNW	NW	N
wind speed (m/s)		2.6	2.8	2.6	2.3	2.7	3.2	6.1	3.4	3.0	2.7	2.7	2.9	2.5	2.7	2.7	2.5	2.2	2.4	2.3	2.6	2.8	2.3	2.9	2.7

Monitoring points		④																			③					
Reading time		8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50	
MC	Reading(μ Sv/h)	170.3	170.3	170.6	170.7	170.7	170.8	170.8	170.7	170.5	170.6	170.6	170.8	170.5	170.8	170.6	170.5	170.8	170.8	170.7	change monitor- ing point	146.7	146.7	146.6	146.9	
	neutron	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D		N.D	N.D	N.D	N.D	
Car	SMOB(mSv/h)*	1,380	—	—	1,370	—	—	1,370	—	—	1,360	—	—	1,350	—	—	1,350	—	—	1,340		—	—	1,350	—	—
	MG(μ Sv/h)*2	220	—	—	221	—	—	221	—	—	222	—	—	221	—	—	222	—	—	221		—	—	220	—	—
	WG(μ Sv/h)*3	107	—	—	106	—	—	105	—	—	104	—	—	103	—	—	N.D	—	—	N.D		—	—	N.D	—	—
	wind direction	N	NNW	NNW	NNE	NNW	NNW	NNE	NNE	NW	NNW	N	N	NNW	NW	NW	NNW	NNW	WNW	NW		NW	NNW	NNW	W	W
wind speed (m/s)		2.6	2.7	3.5	3.4	2.9	3.0	3.0	3.1	2.8	2.4	2.6	2.5	2.6	2.5	3.9	4.4	3.5	3.8	5.1		2.9	2.6	2.9	3.5	

# Fukushima Dai-ichi NPS

as of 10:00, March 27th, 2011





## Fukushima Dai-ri (TEPCO's Monitoring Post)

March 26th, 2011																								
monitoring point	12:00	12:10	12:20	12:30	12:40	12:50	13:00	13:10	13:20	13:30	13:40	13:50	14:00	14:10	14:20	14:30	14:40	14:50	15:00	15:10	15:20	15:30	15:40	15:50
MP1 ( $\mu$ Sv/h)	10.817	10.807	10.767	10.743	10.757	10.747	10.717	10.743	10.710	10.713	10.727	10.727	10.683	10.660	10.677	10.677	10.667	10.687	10.663	10.673	10.640	10.607	10.610	10.653
MP2 ( $\mu$ Sv/h)	6.127	6.153	6.123	6.123	6.123	6.137	6.117	6.113	6.113	6.140	6.130	6.100	6.090	6.107	6.087	6.123	6.097	6.123	6.087	6.097	6.090	6.073	6.077	6.087
MP3 ( $\mu$ Sv/h)	10.157	10.200	10.173	10.170	10.190	10.170	10.187	10.147	10.123	10.170	10.130	10.153	10.110	10.117	10.123	10.080	10.113	10.093	10.103	10.140	10.077	10.073	10.083	10.030
MP4 ( $\mu$ Sv/h)	7.807	7.827	7.823	7.833	7.810	7.813	7.817	7.803	7.817	7.783	7.757	7.813	7.770	7.743	7.780	7.753	7.763	7.733	7.750	7.753	7.727	7.733	7.747	7.683
MP5 ( $\mu$ Sv/h)	7.160	7.153	7.153	7.153	7.153	7.160	7.153	7.153	7.160	7.160	7.153	7.113	7.100	7.133	7.107	7.113	7.107	7.160	7.160	7.080	7.153	7.113	7.160	7.053
MP6 ( $\mu$ Sv/h)	8.357	8.387	8.353	8.333	8.330	8.350	8.353	8.367	8.357	8.370	8.347	8.343	8.323	8.323	8.347	8.293	8.323	8.310	8.337	8.313	8.327	8.327	8.303	8.317
MP7 ( $\mu$ Sv/h)	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	4.650	N.D	N.D	N.D	N.D	N.D
wind direction	NNW	NW	NNW	NNW	NNW	NW	NW	NW	NNW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NW	NW	NW	NW	NW	WNW
wind speed (m/s)	13.8	11.1	11.2	13.7	11.6	11.7	11.0	10.5	12.0	9.9	9.4	9.5	11.2	10.2	6.6	6.9	6.7	6.8	3.8	5.1	6.2	4.5	5.5	4.4

March 26th, 2011																								
monitoring point	16:00	16:10	16:20	16:30	16:40	16:50	17:00	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50
MP1 ( $\mu$ Sv/h)	10.587	10.637	10.600	10.590	10.543	10.583	10.590	10.570	10.557	10.553	10.543	10.500	10.537	10.573	10.520	10.520	10.510	10.473	10.487	10.500	10.427	10.503	10.457	10.460
MP2 ( $\mu$ Sv/h)	6.060	6.073	6.067	6.070	6.030	6.080	6.063	6.057	6.053	6.007	6.020	6.017	6.020	6.023	6.017	5.983	6.013	5.997	6.030	5.967	6.010	6.000	5.970	5.973
MP3 ( $\mu$ Sv/h)	10.070	10.043	10.070	10.063	10.003	10.017	10.007	10.047	10.003	10.037	10.010	10.007	10.000	9.937	9.980	9.977	9.957	9.977	9.973	9.970	9.957	9.930	9.937	9.913
MP4 ( $\mu$ Sv/h)	7.717	7.723	7.723	7.700	7.700	7.690	7.697	7.703	7.707	7.690	7.690	7.657	7.643	7.663	7.667	7.663	7.627	7.643	7.623	7.623	7.637	7.623	7.610	7.593
MP5 ( $\mu$ Sv/h)	7.053	7.060	7.053	7.053	7.053	7.053	7.060	7.060	7.053	7.060	7.060	7.060	7.060	7.060	7.060	7.053	7.060	7.060	7.013	7.007	7.060	7.027	6.967	6.960
MP6 ( $\mu$ Sv/h)	8.307	8.290	8.283	8.303	8.273	8.297	8.260	8.250	8.317	8.227	8.243	8.243	8.243	8.210	8.213	8.243	8.250	8.217	8.240	8.213	8.197	8.197	8.197	8.193
MP7 ( $\mu$ Sv/h)	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
wind direction	NW	NW	NW	NW	WNW	WNW	WNW	NNW	NW	NW	NNW	NNW	NNW	NW	NW	NW	WNW	WNW	NW	NW	NW	NW	NW	NW
wind speed (m/s)	6.6	4.4	2.3	3.7	5.4	7.4	6.9	5.0	3.6	3.3	3.3	6.6	11.1	7.9	7.6	6.2	6.9	8.6	7.2	6.5	5.3	4.4	5.6	6.1

March 26th, 2011																								
monitoring point	20:00	20:10	20:20	20:30	20:40	20:50	21:00	21:10	21:20	21:30	21:40	21:50	22:00	22:10	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50
MP1 ( $\mu$ Sv/h)	10.433	10.423	10.437	10.427	10.423	10.440	10.400	10.360	10.430	10.387	10.370	10.347	10.383	10.370	10.353	10.353	10.363	10.340	10.353	10.343	10.323	10.317	10.323	10.297
MP2 ( $\mu$ Sv/h)	5.987	5.963	5.953	5.967	5.967	5.947	5.953	5.933	5.933	5.937	5.950	5.923	5.953	5.930	5.910	5.903	5.923	5.900	5.890	5.877	5.907	5.877	5.897	5.897
MP3 ( $\mu$ Sv/h)	9.953	9.920	9.907	9.923	9.920	9.930	9.890	9.890	9.857	9.873	9.853	9.860	9.840	9.810	9.833	9.847	9.813	9.817	9.800	9.803	9.797	9.777	9.747	9.777
MP4 ( $\mu$ Sv/h)	7.627	7.577	7.613	7.607	7.597	7.590	7.610	7.570	7.620	7.540	7.567	7.530	7.550	7.560	7.540	7.517	7.513	7.530	7.513	7.513	7.523	7.517	7.510	7.493
MP5 ( $\mu$ Sv/h)	6.960	7.013	6.960	6.960	6.960	6.967	6.960	6.960	6.960	6.960	6.960	6.913	6.967	6.907	6.913	6.913	6.913	6.887	6.867	6.887	6.913	6.893	6.867	6.867
MP6 ( $\mu$ Sv/h)	8.167	8.213	8.177	8.180	8.170	8.173	8.187	8.157	8.157	8.130	8.117	8.127	8.127	8.090	8.117	8.120	8.103	8.130	8.090	8.093	8.087	8.073	8.073	8.070
MP7 ( $\mu$ Sv/h)	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
wind direction	NW	NW	NW	NW	WNW	WNW	WNW	NW	WNW	NW	NW	NW	NW	WNW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
wind speed (m/s)	6.7	5.6	5.9	5.5	6.1	6.7	7.4	7.1	8.0	8.5	7.7	6.3	5.1	5.0	5.0	6.8	7.5	8.4	9.4	8.9	8.6	7.8	7.8	9.5

## Fukushima Dai-ri (TEPCO's Monitoring Post)

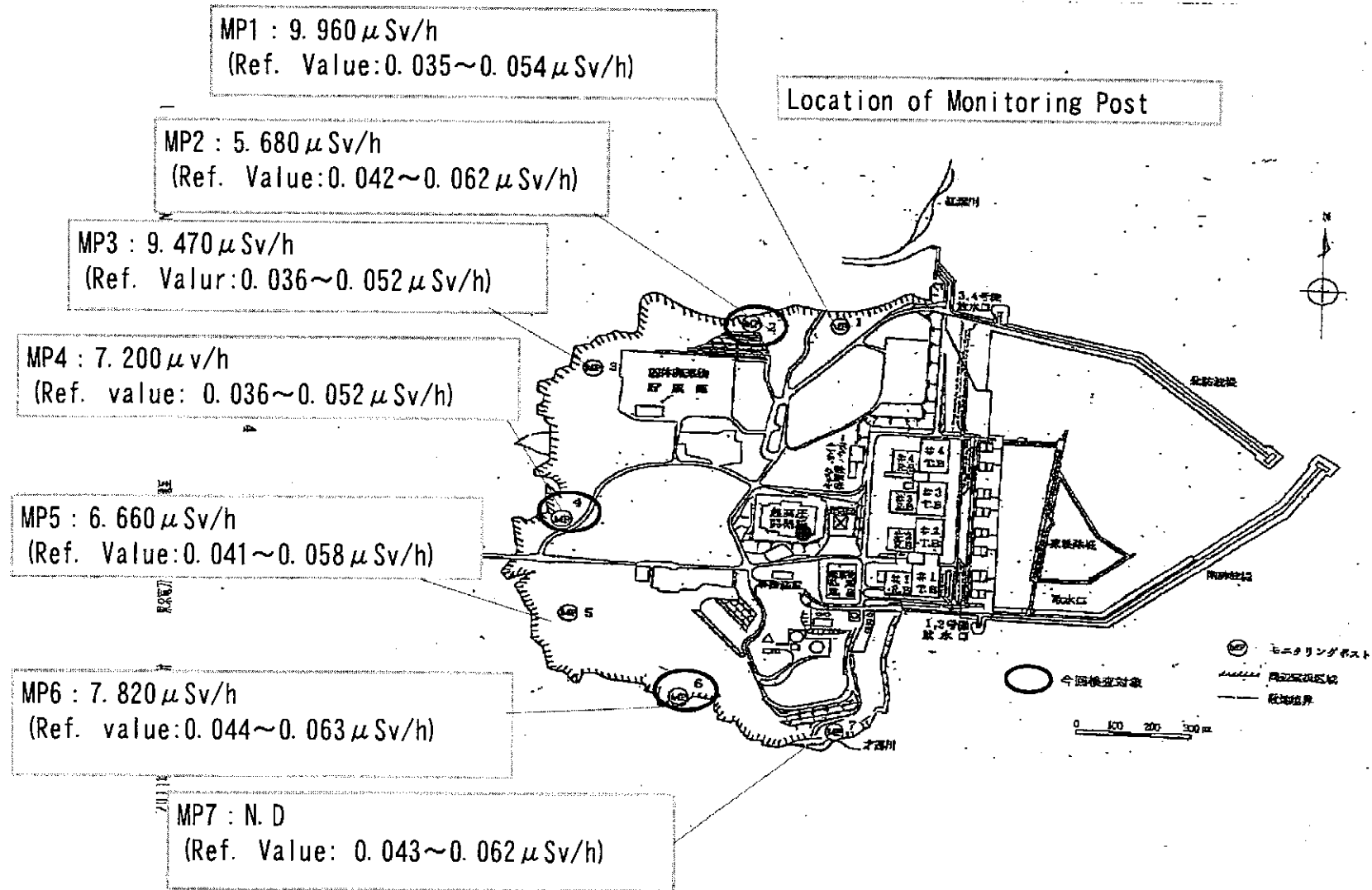
March 26th, 2011																								
monitoring point	0:00	0:10	0:20	0:30	0:40	0:50	1:00	1:10	1:20	1:30	1:40	1:50	2:00	2:10	2:20	2:30	2:40	2:50	3:00	3:10	3:20	3:30	3:40	3:50
MP1 (μ Sv/h)	12.000	11.997	11.893	11.827	11.803	11.773	11.713	11.747	11.680	11.640	11.613	11.600	11.560	11.477	11.473	11.427	11.417	11.330	11.327	11.270	11.213	11.253	11.150	11.160
MP2 (μ Sv/h)	6.910	6.897	6.823	6.780	6.763	6.790	6.757	6.743	6.727	6.693	6.700	6.643	6.617	6.593	6.577	6.517	6.510	6.460	6.447	6.390	6.353	6.347	6.353	6.340
MP3 (μ Sv/h)	11.343	11.310	11.237	11.237	11.183	11.143	11.107	11.140	11.077	11.060	11.017	11.020	10.987	10.953	10.893	10.893	10.877	10.807	10.767	10.723	10.700	10.620	10.630	10.577
MP4 (μ Sv/h)	8.537	8.567	8.523	8.480	8.477	8.460	8.430	8.413	8.393	8.413	8.393	8.343	8.363	8.320	8.313	8.280	8.230	8.200	8.163	8.150	8.120	8.070	8.113	8.063
MP5 (μ Sv/h)	7.947	7.940	7.940	7.893	7.840	7.873	7.847	7.847	7.800	7.833	7.800	7.747	7.747	7.727	7.693	7.700	7.633	7.607	7.547	7.453	7.453	7.453	7.453	7.453
MP6 (μ Sv/h)	9.150	9.100	9.090	9.083	9.040	9.033	9.000	8.977	8.983	8.970	8.957	8.937	8.917	8.857	8.870	8.813	8.827	8.737	8.697	8.643	8.610	8.563	8.550	8.547
MP7 (μ Sv/h)	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
wind direction	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW
wind speed (m/s)	8.2	8.0	8.7	8.1	8.9	7.5	8.3	8.3	8.5	8.3	9.0	9.1	8.8	9.2	8.1	8.1	6.5	9.9	8.6	9.0	9.3	9.9	10.3	10.5

March 26th, 2011																								
monitoring point	4:00	4:10	4:20	4:30	4:40	4:50	5:00	5:10	5:20	5:30	5:40	5:50	6:00	6:10	6:20	6:30	6:40	6:50	7:00	7:10	7:20	7:30	7:40	7:50
MP1 (μ Sv/h)	11.170	11.113	11.153	11.127	11.050	11.037	11.043	11.053	11.000	11.003	11.027	11.030	11.030	10.953	10.993	10.983	10.977	10.963	10.973	10.920	10.937	10.960	10.933	10.917
MP2 (μ Sv/h)	6.330	6.303	6.290	6.283	6.263	6.243	6.277	6.250	6.213	6.263	6.283	6.247	6.247	6.243	6.237	6.227	6.237	6.267	6.227	6.227	6.257	6.237	6.237	6.217
MP3 (μ Sv/h)	10.613	10.580	10.610	10.530	10.487	10.527	10.493	10.503	10.480	10.473	10.470	10.470	10.433	10.440	10.460	10.427	10.410	10.430	10.443	10.437	10.413	10.433	10.447	10.420
MP4 (μ Sv/h)	8.060	8.067	8.037	8.037	8.020	8.003	7.983	7.993	8.000	8.000	7.983	7.943	7.963	7.970	8.017	7.957	7.970	7.970	7.977	7.950	7.963	7.977	7.963	7.943
MP5 (μ Sv/h)	7.347	7.380	7.353	7.353	7.353	7.353	7.347	7.353	7.353	7.353	7.353	7.353	7.353	7.333	7.353	7.327	7.307	7.353	7.353	7.353	7.253	7.353	7.353	7.353
MP6 (μ Sv/h)	8.547	8.547	8.520	8.497	8.477	8.483	8.447	8.460	8.443	8.453	8.463	8.477	8.433	8.443	8.447	8.437	8.437	8.497	8.467	8.467	8.453	8.403	8.453	8.433
MP7 (μ Sv/h)	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
wind direction	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW
wind speed (m/s)	10.8	9.7	9.7	10.2	9.5	10.1	9.2	9.1	9.4	8.8	8.8	10.0	8.6	8.6	9.2	9.4	9.7	8.5	8.3	7.5	7.0	6.2	5.5	6.3

March 26th, 2011																								
monitoring point	8:00	8:10	8:20	8:30	8:40	8:50	9:00	9:10	9:20	9:30	9:40	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30	11:40	11:50
MP1 (μ Sv/h)	10.933	10.933	10.933	10.877	10.920	10.883	10.893	10.910	10.867	10.860	10.893	10.870	10.973	10.903	10.913	10.887	10.850	10.840	10.833	10.873	10.817	10.837	10.803	10.817
MP2 (μ Sv/h)	6.217	6.230	6.213	6.223	6.233	6.220	6.203	6.203	6.183	6.220	6.223	6.217	6.240	6.190	6.183	6.190	6.190	6.177	6.180	6.160	6.173	6.167	6.133	6.163
MP3 (μ Sv/h)	10.437	10.360	10.380	10.370	10.367	10.403	10.340	10.393	10.323	10.380	10.363	10.367	10.320	10.280	10.213	10.233	10.170	10.230	10.237	10.243	10.207	10.217	10.220	10.230
MP4 (μ Sv/h)	7.957	7.933	7.913	7.927	7.930	7.900	7.957	7.933	7.930	7.933	7.913	7.900	7.887	7.813	7.810	7.840	7.833	7.807	7.820	7.837	7.777	7.850	7.863	7.823
MP5 (μ Sv/h)	7.347	7.347	7.253	7.353	7.293	7.273	7.253	7.280	7.353	7.280	7.293	7.253	7.253	7.200	7.207	7.227	7.153	7.180	7.253	7.153	7.253	7.160	7.200	7.153
MP6 (μ Sv/h)	8.420	8.433	8.427	8.440	8.460	8.467	8.433	8.433	8.417	8.427	8.413	8.460	8.437	8.353	8.317	8.337	8.320	8.337	8.340	8.333	8.300	8.357	8.370	8.353
MP7 (μ Sv/h)	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
wind direction	NNW	NNW	NNW	N	N	N	NNW	N	N	N	N	N	N	N	N	WNW	NW	NW	NW	NNW	NNW	NNW	NW	NW
wind speed (m/s)	7.1	7.3	8.9	7.1	7.9	7.9	8.6	8.2	8.6	8.3	6.6	7.0	6.1	5.8	7.4	6.9	7.4	10.9	12.0	12.8	11.3	10.5	11.1	10.2

# Fukushima Dai-ri NPS

as of 10:00, March 27th, 2011



Results of environmental monitoring at each NPSs etc.

unit:  $\mu$ Sv/h

Range of normal average value	Company	NPS	March 26th, 2011											
			0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
0.023~0.027	Hokkaido Electric Power Co.	Tomari NPS	0.032	0.028	0.026	0.026	0.026	0.026	0.025	0.026	0.026	0.026	0.026	0.026
0.024~0.060	Tohoku Electric Power Co.	Onagawa NPS	0.95	0.94	0.94	0.93	0.92	0.92	0.91	0.91	0.91	0.90	0.90	0.89
0.012~0.060		Higashidori NPS	0.017	0.017	0.018	0.017	0.017	0.017	0.018	0.018	0.018	0.022	0.025	0.020
0.033~0.050	Tokyo Electric Power Co.	Fukushima Dai-ichi*	184.4	182.5	179.9	172.4	169.2	166.9	169	169.5	170.3	170.8	170.5	170.7
0.036~0.052		Fukushima Dai-ni	11.343	11.107	10.987	10.767	10.613	10.493	10.433	10.443	10.437	10.340	10.320	10.237
0.011~0.159		Kashiwazaki kariwa NPS	0.065	0.066	0.066	0.08	0.08	0.072	0.069	0.066	0.066	0.066	0.064	0.066
0.036~0.053	Japan Atomic Power Co.	Tokai Dai-ni NPS	0.852	0.850	0.852	0.855	0.851	0.840	0.840	0.837	0.834	0.834	0.830	0.829
0.039~0.110		Tsuruga NPS	0.076	0.073	0.074	0.075	0.078	0.076	0.072	0.073	0.075	0.073	0.073	0.073
0.064~0.108	Chubu Electric Power Co.	Hamaoka NPS	0.080	0.080	0.080	0.079	0.080	0.080	0.080	0.080	0.079	0.079	0.079	0.079
0.0207~0.132	Hokuriku Electric Power Co.	Shika NPS	0.063	0.058	0.043	0.035	0.033	0.032	0.031	0.032	0.032	0.032	0.032	0.035
0.028~0.130	Chugoku Electric Power Co.	Shimane NPS	0.035	0.033	0.034	0.030	0.029	0.032	0.031	0.030	0.030	0.030	0.030	0.033
0.070~0.077		Mihama NPS	0.076	0.074	0.073	0.076	0.078	0.074	0.071	0.073	0.074	0.077	0.074	0.072
0.045~0.047	Kansai Electric Power Co.	Takahama NPS	0.050	0.048	0.047	0.046	0.044	0.044	0.043	0.047	0.044	0.042	0.043	0.042
0.036~0.040		Ooi NPS	0.044	0.047	0.045	0.043	0.037	0.037	0.036	0.042	0.037	0.036	0.035	0.035
0.011~0.080	Shikoku Electric Power Co.	Ikata NPS	0.014	0.014	0.014	0.015	0.014	0.014	0.014	0.014	0.014	0.015	0.014	0.014
0.023~0.087	Kyushu Electric Power Co.	Genkai NPS	0.026	0.027	0.028	0.027	0.027	0.026	0.028	0.027	0.027	0.026	0.026	0.026
0.034~0.120		Sendai NPS	0.037	0.038	0.036	0.038	0.036	0.036	0.040	0.040	0.041	0.037	0.038	0.040
0.009~0.069	Japan Nuclear Fuel Limited	Japan Nuclear Fuel Reprocessing Plant	0.016	0.017	0.016	0.017	0.018	0.016	0.017	0.016	0.017	0.018	0.018	0.018
0.009~0.071		Japan Nuclear Fuel Plant Disposal	0.021	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022	0.023	0.021

\*There could be small deviation on the monitoring time and area because of operational situation concerning with data of Fukushima Dai-ichi NPS

Range of normal average value	Company	NPS	March 26th, 2011											
			12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
0.023~0.027	Hokkaido Electric Power Co.	Tomari NPS	0.028	0.026	0.032	0.031	0.030	0.026	0.027	0.025	0.025	0.025		
0.024~0.060	Tohoku Electric Power Co.	Onagawa NPS	0.89	0.88	0.89	0.88	0.86	0.85	0.84	0.84	0.84	0.84		
0.012~0.060		Higashidori NPS	0.020	0.019	0.018	0.017	0.017	0.018	0.019	0.028	0.021	0.018		
0.033~0.050	Tokyo Electric Power Co.	Fukushima Dai-ichi*	146.8	146.7	146.9	146.6	145.9	145.3	144.5	143.9	143.0	142.8		
0.036~0.052		Fukushima Dai-ni	10.157	10.187	10.110	10.103	10.070	10.007	10.000	9.973	9.953	9.890		
0.011~0.159		Kashiwazaki kariwa NPS	0.065	0.065	0.067	0.065	0.064	0.067	0.065	0.065	0.065	0.065		
0.036~0.053	Japan Atomic Power Co.	Tokai Dai-ni NPS	0.830	0.827	0.818	0.814	0.813	0.808	0.803	0.805	0.802	0.798		
0.039~0.110		Tsuruga NPS	0.073	0.078	0.075	0.073	0.076	0.079	0.076	0.076	0.073	0.072		
0.064~0.108	Chubu Electric Power Co.	Hamaoka NPS	0.079	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078		
0.0207~0.132	Hokuriku Electric Power Co.	Shika NPS	0.033	0.032	0.032	0.033	0.032	0.032	0.032	0.032	0.032	0.032		
0.028~0.130	Chugoku Electric Power Co.	Shimane NPS	0.031	0.030	0.032	0.030	0.030	0.030	0.031	0.030	0.030	0.031		
0.070~0.077		Mihama NPS	0.072	0.074	0.073	0.073	0.074	0.075	0.073	0.080	0.074	0.072		
0.045~0.047	Kansai Electric Power Co.	Takahama NPS	0.044	0.043	0.043	0.043	0.043	0.043	0.048	0.046	0.043	0.042		
0.036~0.040		Ooi NPS	0.037	0.036	0.036	0.035	0.035	0.034	0.039	0.037	0.035	0.043		
0.011~0.080	Shikoku Electric Power Co.	Ikata NPS	0.014	0.016	0.014	0.014	0.015	0.014	0.014	0.014	0.014	0.015		
0.023~0.087	Kyushu Electric Power Co.	Genkai NPS	0.027	0.027	0.026	0.026	0.026	0.027	0.026	0.026	0.027	0.027		
0.034~0.120		Sendai NPS	0.038	0.037	0.037	0.037	0.034	0.037	0.040	0.040	0.039	0.040		
0.009~0.069	Japan Nuclear Fuel Limited	Japan Nuclear Fuel Reprocessing Plant	0.016	0.017	0.018	0.018	0.016	0.016	0.016	0.016	0.016	0.016		
0.009~0.071		Japan Nuclear Fuel Plant Disposal	0.020	0.021	0.023	0.022	0.020	0.020	0.020	0.020	0.021	0.020		

\*There could be small deviation on the monitoring time and area because of operational situation concerning with data of Fukushima Dai-ichi NPS



March 27, 2011

The result of nuclide analysis in the stagnant water on the basement floor of the turbine building of each Unit of Fukushima Dai-ichi Nuclear Power Station

Nuclide (half- life time)	Concentration of Radioactivity (Bq/cm <sup>3</sup> )			
	Unit 1 (2nd time) Sampled on March 26	Unit 2 Sampled on March 26	Unit 3 (2nd time) Sampled on March 26	Unit 4 Sampled on March 24
	Dose rate on the surface of the water 60 mSv/h	Dose rate on the surface of the water >1,000 mSv/h	Dose rate on the surface of the water 750 mSv/h	Dose rate on the surface of the water 0.50 mSv/h
Co-56 (about 77 days)	N.D	1.6×10 <sup>5</sup>	N.D	N.D
Co-58 (about 71 days)	N.D	N.D	N.D	2.7×10 <sup>-1</sup>
Co-60 (about 5 years)	N.D	N.D	2.7×10 <sup>2</sup>	N.D
Mo-99 (about 66 hours)	N.D	N.D	N.D	1.0×10 <sup>0</sup>
Tc-99m (about 6 hours)	N.D	8.7×10 <sup>4</sup>	2.2×10 <sup>3</sup>	6.5×10 <sup>-1</sup>
Ru-106 (about 370 days)	N.D	N.D	N.D	3.3×10 <sup>0</sup>
Ag-108m (about 418 years)	N.D	2.5×10 <sup>5</sup>	N.D	N.D
Te-129 (about 70 minutes)	N.D	N.D	N.D	2.6×10 <sup>1</sup>
Te-129m (about 34 days)	N.D	N.D	N.D	1.3×10 <sup>1</sup>
Te-132 (about 3 days)	N.D	N.D	N.D	1.4×10 <sup>1</sup>
I-131 (about 8 days)	1.5×10 <sup>5</sup>	1.3×10 <sup>7</sup>	3.2×10 <sup>5</sup>	3.6×10 <sup>2</sup>
I-132 (about 2 hours)	N.D	N.D	N.D	1.3×10 <sup>1</sup>
I-134 (about 53 minutes)	N.D	2.9×10 <sup>9</sup>	N.D	N.D
Cs-134 (about 2 years)	1.2×10 <sup>5</sup>	2.3×10 <sup>6</sup>	5.5×10 <sup>4</sup>	3.1×10 <sup>1</sup>
Cs-136 (about 13 days)	1.1×10 <sup>4</sup>	2.5×10 <sup>5</sup>	6.5×10 <sup>3</sup>	3.7×10 <sup>0</sup>
Cs-137 (about 30 years)	1.3×10 <sup>5</sup>	2.3×10 <sup>6</sup>	5.6×10 <sup>4</sup>	3.2×10 <sup>1</sup>
Ba-140 (about 13 days)	N.D	4.9×10 <sup>5</sup>	1.9×10 <sup>4</sup>	N.D
La-140 (about 2 days)	N.D	1.9×10 <sup>5</sup>	3.1×10 <sup>3</sup>	7.4×10 <sup>-1</sup>

N.D ; Not Detectable