News Release

Readings at Monitoring Post out of 20 Km　Zone of Fukushima Dai-ichi NPP

As of 13:00 March 22, 2011
Ministry of Education, Culture, Sports, Science and Technology (MEXT)

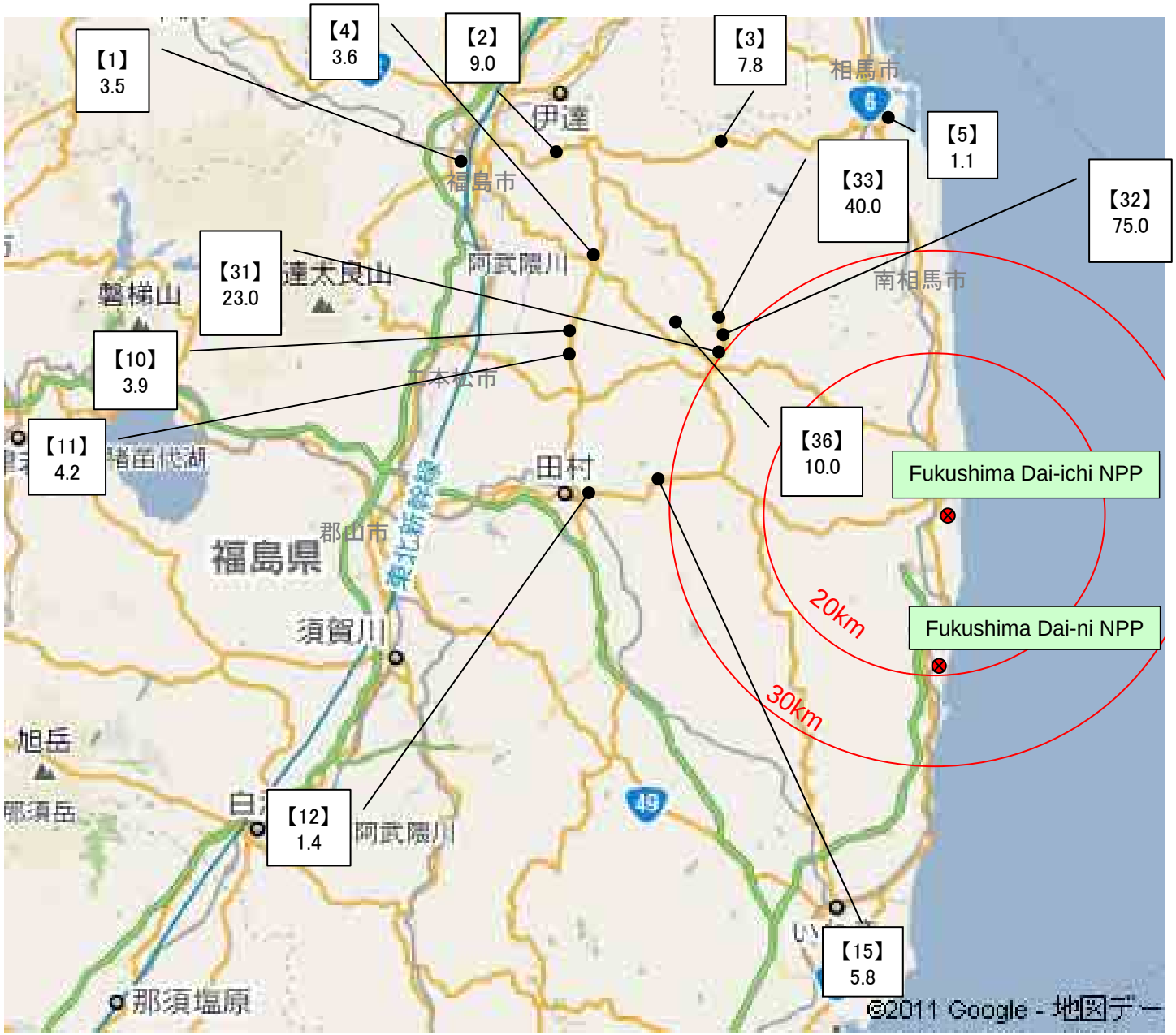
1. Monitoring Outputs by MEXT

＊1　measured by Geiger-Müller counter
＊2　measured by ionization chamber type survey mete
＊3 measured by NaI scintillator detector

Monitoring Post (length from NPP)	Monitoring Time	Reading (unit : μSv / h)	Weather	Reading by
Reading Point 【1】 (about 60Km Northwest)	2011/3/22 9:01	3.5 *2	No rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【2】 (about 55Km Northwest)	2011/3/22 10:40	9.0 *2	No rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【3】 (about 45Km Northwest)	2011/3/22 11:13	7.8 *2	No rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【4】 (about 50Km Northwest)	2011/3/22 9:55	3.6 *2	No rain	MEXT
Reading Point 【5】 (about 45Km North)	2011/3/22 11:49	1.1 *2	No rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【10】 (about 40Km Northwest)	2011/3/22 9:20	3.9 *2	No rain	MEXT
Reading Point 【11】 (about 40Km Northwest)	2011/3/22 9:35	4.2 *2	No rain	MEXT
Reading Point 【12】 (about 40Km West)	2011/3/22 11:17	1.4 *2	No rain	MEXT
Reading Point 【15】 (about 35Km West)	2011/3/22 11:53	5.8 *2	No rain	MEXT
Reading Point 【31】 (about 30Km West Northwest)	2011/3/22 10:54	23.0 *2	No rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【32】 (about 30Km Northwest)	2011/3/22 11:10	75.0 *2	No rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【33】 (about 30Km Northwest)	2011/3/22 11:23	40.0 *2	No rain	JAEA (Japan Atomic Energy Agency)
Reading Point 【36】 (about 40Km Northwest)	2011/3/22 10:30	10.0 *2	No rain	JAEA (Japan Atomic Energy Agency)

2. Under construction, Reading by Ministry of Defense

Readings at Monitoring Post out of Fukushima Dai-ichi NPP



Monitoring Time
March 22,
9:01~12:00
● Monitoring Post

Unit : μ Sv per hour

* Measured By Police (counter NBC operations unit)

(Reference)

Guideline on Projected Dose Levels Requiring Shelter and Evacuation

Projected Dose (μSv)		Protective Action
Effective dose from external exposure	Equivalent dose from internal exposure - Equivalent dose to the thyroid of children from radioiodine - Equivalent dose to the bone surface or lungs from uranium - Equivalent dose to the bone surface or lungs from plutonium	
10,000–50,000	100,000–500,000	Residents should take shelter in their home, etc., making the shelter airtight by closing windows and any other openings to the outside. If the nuclear facility directly releases neutron radiation or gamma radiation, and if the authorities so instruct, residents should take shelter in a concrete building or evacuate.
50,000 or more	500,000 or more	Residents should take shelter in a concrete building or evacuate as instructed by the authorities.

Source: "Disaster Prevention Guidelines for Nuclear Facilities, etc." (decided by the Nuclear Safety Commission on June 30, 1980 [last revised on August 24, 2010]).

Radiation in Daily-life

※Unit : μ Sv

Radiation dose
(microsievert: μ Sv)

250,000

50,000

10,000

1,000

100

10

Upper limit of radiation dose permitted for people who engage in emergency work.
[250,000 μ Sv/year]

Upper limit of radiation dose permitted for radiation workers, police , and firefighters who engage in disaster prevention.
[50,000 μ Sv/year]

[～10,000 μ Sv/year]

Radiation dose in Guarapari(Brazil) per year.

Chest CT scan
[6,900 μ Sv/each time]

[～2,400 μ Sv/year]

Space 0.39 ingestion 0.29 Earth 0.48 Radon absorbed in air 1.26

Natural radiation dose per year.

Global average

Dose limit for public per year (except for medical care).
[1,000 μ Sv/year]

Gifu ⇔ Kanagawa

Maximum difference of the average of natural radiation dose in each prefecture.
[～400 μ Sv/year]

gastrointestinal X-ray examination.
[600 μ Sv/each time]

An air travel between Tokyo and New York (RT).
(Increased cosmic radiation at high altitude.)
[～200 μ Sv/round trip]

[50 μ Sv/each time]
Chest X-ray examination.

[22 μ Sv/year]
Evaluated dose of radiation from radioactive substance emitted from the nuclear fuel reprocessing plant per year.

[50 μ Sv/year]
Standard dose of radiation around a nuclear plant (light water reactor).
(Actual result is far below the value.)

[10 μ Sv/year]
Standard radiation dose from Clearance level.

(Ref) Average dose rate at the monitoring post of Tokyo (3/17 9:00～3/18 9:00, March) : 0.050 μ Sv/h = 438 μ Sv/y