

**Fukushima Daiichi Nuclear Power Station: the result of
the Pu analysis on radioactive materials in the air over reactor buildings**

1. Sampled in: Fukushima Daiichi Nuclear Power Station
2. Analyzed by: Japan Chemical Analysis Center or JCAC
3. Result of Measurement:

(Unit: mBq/ m³)

Place of Sampling	Types of Samples	Date of sampling	Pu-238	Pu-239,Pu-240
Unit 1: Upper part of reactor building (eastern part over the reactor)	Volatile	10/3	N.D. [$<2.7 \times 10^{-1}$]	N.D. [$<2.7 \times 10^{-1}$]
	Particulate		N.D. [$<2.7 \times 10^{-1}$]	N.D. [$<2.8 \times 10^{-1}$]
Unit 1: Upper part of reactor building (around machine hatch opening 4th floor)	Volatile	10/25	N.D. [$<1.6 \times 10^0$]	N.D. [$<1.7 \times 10^0$]
	Particulate		N.D. [$<1.4 \times 10^0$]	N.D. [$<1.5 \times 10^0$]
Unit 2: Upper part of reactor building (center of blow-out panel (northward))	Volatile	10/13	N.D. [$<7.9 \times 10^{-1}$]	N.D. [$<7.7 \times 10^{-1}$]
	Particulate		N.D. [$<1.1 \times 10^0$]	N.D. [$<1.1 \times 10^0$]
Unit 3: Upper part of reactor building (over reactor on (western side (downward): 1 st time)	Volatile	10/11	N.D. [$<3.3 \times 10^0$]	N.D. [$<3.4 \times 10^0$]
	Particulate		$(2.8 \pm 0.31) \times 10^1$	$(1.4 \pm 0.21) \times 10^1$
Unit 3: Upper part of reactor building (around machine hatch opening 4th floor: 2 nd time)	Volatile	10/12	N.D. [$<2.9 \times 10^0$]	N.D. [$<3.0 \times 10^0$]
	Particulate		N.D. [$<3.5 \times 10^0$]	N.D. [$<3.5 \times 10^0$]

Numbers in [] means detection limit.

*: Density limit by the announcement of Reactor Regulation

(the density limit in the air that radiation workers breathe in the section 4 of the appendix 2)

Pu-238 7×10^2 mBq/m³ , Pu-239 7×10^2 mBq/m³ , Pu-240 7×10^2 mBq/m³

4. Evaluation

The densities of Pu-238, Pu-239 and Pu-240 detected in this sampling are below the density limit for the air that radiation workers breathe that the announcement of Reactor Regulation provides.

End

Fukushima Daiichi Nuclear Power Station: the result of
the Sr analysis on radioactive materials in the air over reactor buildings

1. Sampled in: Fukushima Daiichi Nuclear Power Station
2. Analyzed by: Japan Chemical Analysis Center or JCAC
3. Result of Measurement:

(Unit: mBq/ m³)

Place of Sampling	Types of Samples	Date of sampling	Sr-89	Sr-90
Unit 1: Upper part of reactor building (western part of reactor)	Volatile	10/3	N.D.	$(1.0 \pm 0.11) \times 10^2$
	Particulate		$(1.8 \pm 0.10) \times 10^3$	$(2.9 \pm 0.05) \times 10^3$
Unit 1: Upper part of reactor building (around machine hatch opening 4th floor)	Volatile	10/12	N.D.	$(3.4 \pm 0.46) \times 10^2$
	Particulate		$(2.4 \pm 0.25) \times 10^3$	$(5.0 \pm 0.16) \times 10^3$
Unit 2: Upper part of reactor building (center of blow-out panel (westward))	Volatile	10/13	N.D.	$(5.2 \pm 0.14) \times 10^1$
	Particulate		$(2.1 \pm 0.51) \times 10^2$	$(3.6 \pm 0.32) \times 10^2$
Unit 3 Upper part of reactor building (over reactor on western side (side): 1 st time)	Volatile	10/11	N.D.	N.D.
	Particulate		$(1.8 \pm 0.28) \times 10^3$	$(2.5 \pm 0.17) \times 10^3$
Unit 3 Upper part of reactor building (around machine hatch opening 3 rd floor: 1 st time)	Volatile	10/12	N.D.	N.D.
	Particulate		N.D.	$(6.6 \pm 0.89) \times 10^2$

*: Density limit by the announcement of Reactor Regulation

(the density limit in the air that radiation workers breathe in the section 4 of the appendix 2)

Sr-89 4×10^6 mBq/m³, Sr-90 3×10^5 mBq/m³

4. Evaluation:

The densities of Sr-89 and 90 detected in this sampling are below the density limit for the air that radiation workers breathe that the announcement of Reactor Regulation provides.

End