Nuclides Analysis Result of the Radioactive Materials in the Air at Fukushima Nuclear Power Stations

Reference

(Data summarized on December 9)

Place of Sampling	The West Gate of Fukushima Daiichi NPS						② Density Limit Specified by the Reactor Regulation (Bq/cm^3) (Density limit in the air which radiation workers breathe in is specified in section 4 of Appendix 2)
Time of Sampling	December 8, 2014 7:00～12:00						
Detected Nuclides (Half-life)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	①Density of Sample (Bq/cm^3)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-					1E-03
Cs-134 (Approx. 2 years)	ND	-					2E-03
Cs-137 (Approx. 30 years)	ND	-					3E-03

* The radioactivity density is the sum of the volatile nuclides density and the particulate nuclides density.

O.OE－O is the same as O.O x 10-O

Data of other nuclides is under examination.

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

The detection limits at the west gate of Fukushima Daiichi NPS are as follows: Volatile: I-131: Approx. 1E-7Bq/cm^3, Cs-134: Approx.1E-7Bq/cm^3, Cs-137: Approx.1E-7Bq/cm^3 Particulate: I-131: Approx. 5E-8Bq/cm^3, Cs-134: Approx.7E-8Bq/cm^3, Cs-137: Approx.6E-8Bq/cm^3
As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Dust Nuclides Analysis Result: The West Gate of Fukushima Daiichi Nuclear Power Station (Bq/cm^3)