## (Reference) Fukushima Daini NPS: Measurement result of reactor water and spent fuel pool water before and after the quake

## Reactor water

<Unit> Iodine 131: [Bq/g] Cesium 134, 137: [Bq/cm<sup>3</sup>]

Nuclides	After the quake (data when stopped)				Before the quake (data during operation)			
Unit	Time of sample	lodine 131	Cesium 134	Cesium 137	Time of sample	lodine 131	Cesium 134	Cesium 137
Unit 1	3/14 8:30	N.D.	N.D.	N.D.	3/8 9:25	2.00×10 <sup>-2</sup>	N.D.	N.D.
		<1.13×10 <sup>-1</sup>	<3.83×10 <sup>-1</sup>	<1.87×10 <sup>-1</sup>			<1.93×10 <sup>-1</sup>	<6.72×10 <sup>-2</sup>
Unit 2	5/15 9:55	N.D.	N.D.	1.82×10 <sup>-1</sup>	3/1 9:05	1.71×10 <sup>-2</sup>	N.D.	N.D.
		<2.59×10 <sup>-2</sup>	<5.33×10 <sup>-2</sup> 1	1.02×10			<1.84×10 <sup>-1</sup>	<8.25×10 <sup>-2</sup>
Unit 3	4/28 11:50	N.D.	N.D.	N.D.	2/15 9:30	9.03×10 <sup>-3</sup>	N.D.	N.D.
		<5.04×10 <sup>-1</sup>	<8.59×10 <sup>-1</sup>	<8.07×10 <sup>-1</sup>			<6.19×10 <sup>-2</sup>	<5.27×10 <sup>-2</sup>
Unit 4	4/28 12:20	N.D.	N.D.	N.D.	2/8 9:30	1.07×10 <sup>-2</sup>	N.D.	N.D.
		<4.00×10 <sup>-2</sup> 1	<7.49×10 <sup>-2</sup>	<6.38×10 <sup>-2</sup>			<1.02×10 <sup>-1</sup>	<4.82×10 <sup>-2</sup>

## Spent fuel pool water

<Unit> Iodine 131: [Bq/g] Cesium 134, 137: [Bq/cm<sup>3</sup>]

Nuclides	After the quake (data when stopped)				Before the quake (data during operation)			
Unit	Time of sample	lodine 131	Cesium 134	Cesium 137	Time of sample	lodine 131	Cesium 134	Cesium 137
Unit 1	5/15 10:05	N.D. <3.33×10 <sup>-2</sup>	N.D. <9.36×10 <sup>-2</sup>	2.72×10 <sup>-2</sup> <sup>3</sup>	3/2 10:15	N.D. <3.11×10 <sup>-3</sup>	N.D. <5.12×10 <sup>-3</sup>	N.D. <4.92×10 <sup>-3</sup>
Unit 2	5/15 9:55	N.D. <2.59×10 <sup>-2</sup>	N.D. <5.33×10 <sup>-2</sup>	1.82×10 <sup>-1</sup>	3/2 9:30	N.D. <3.49×10 <sup>-3</sup>	N.D. <5.37×10 <sup>-3</sup>	4.10×10 <sup>-3</sup> <sup>2</sup>
Unit 3	5/15 11:05	N.D. <7.55×10 <sup>-3</sup>	N.D. <1.26×10 <sup>-2</sup>	N.D. <1.21×10 <sup>-2</sup>	3/2 9:45	N.D. <4.08×10 <sup>-3</sup>	N.D. <6.86×10 <sup>-3</sup>	N.D. <5.51x10 <sup>-3</sup>
Unit 4	4/28 12:20	N.D. <4.00×10 <sup>-2</sup>	N.D. <7.49×10 <sup>-2</sup>	N.D. <6.38×10 <sup>-2</sup>	3/2 10:00	N.D. <2.71×10 <sup>-3</sup>	N.D. <1.54×10 <sup>-2</sup>	N.D. <3.99×10 <sup>-3</sup>

<sup>\*1:</sup> At Unit 2 and Unit 4, as circulating cooling has been implemented by Residual Heat Removal System to cool reactor and spent fuel pool figure of reactor water and spent fuel pool water is the same.

<sup>\*2:</sup> As Unit 2 spent fuel pool stores two fuel assemblies, which leaks were confirmed in 1997 and 2002\*, Cesium 134 (half life: approx. 30years) has been detected before the quake. (\* Announced on May 20, 1997 and November 18, 2002)

<sup>\*3:</sup> At Unit 1 spent fuel pool (after the quake), Cesium 137 has been detected, however it has been confirmed from sampling and analysis on 22nd/28th July, that it is below the detection limit.