<Reference>
August 16, 2013
Tokyo Electric Power Company

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/4)
Underground Water Obtained at Bank Protection

Unit: Bq/L

		Underground water observation hole No.0-1	Underground water observation hole No.1	Underground water observation hole No.1-2	Underground water observation hole No.1-3	Underground water observation hole No.1-4	Underground water observation hole No.1-5	Underground water observation hole No.2	Underground water observation hole No.2-1	Underground water observation hole No.3	Underground water observation hole No.3-1
Date of sampling			Aug 12, 2013	Aug 12, 2013	Aug 12, 2013	Aug 12, 2013	Aug 12, 2013	Aug 12, 2013	Aug 12, 2013		
Time of sampling			10:46 AM	12:27 PM	11:20 AM	10:21 AM	12:00 PM	11:10 AM	10:34 AM		
Cs-134 (Approx. 2 years)			ND(0.42)	180	ND(0.55)	ND(0.41)	190	ND(0.38)	ND(0.43)		
Cs-137 (Approx.30 years)			0.50	400	ND(0.67)	1.3	390	ND(0.48)	0.48		
The other γ	Ru-106 (Approx. 370 days)		12	ND	12	ND	ND	ND	ND		
	Sb-125 (Approx. 3 years)		ND	130	ND	ND	8.9	ND	ND		
All β			1,700	890,000	160,000	150	26,000	210	ND(19)		
H-3 (Approx. 12 years)			380,000	180,000	210,000	72,000	70,000	580	290		
Sr-90（Approx. 29 years）			-	-	-	-	-	-	-		

* Data announced this time is provided in a thick-frame. The other data was announced on August 13.
* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.
* "-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (2/4)
Underground Water Obtained at Bank Protection

Unit: Bq/L

		Underground water observation hole No.0-1	Underground water observation hole No.1	Underground water observation hole No.1-2	Underground water observation hole No.1-3	Underground water observation hole No.1-4	Underground water observation hole No.1-5	Underground water observation hole No.2	Underground water observation hole No.2-1	Underground water observation hole No.3	Underground water observation hole No.3-1
Date of sampling		Aug 15, 2013	Aug 15, 2013	Aug 15, 2013	Aug 15, 2013	Aug 15, 2013	Aug 15, 2013	Aug 15, 2013	Aug 15, 2013		
Time of sampling		10:52 AM	12:01 PM	1:35 PM	12:26 PM	11:30 AM	1:02 PM	11:32 AM	10:56 AM		
Cs-134 (Approx. 2 years)		0.39	ND(0.54)	150	ND(0.64)	ND(0.47)	150	ND(0.46)	ND(0.37)		
Cs-137 (Approx.30 years)		1.1	ND(0.49)	360	ND(0.76)	1.2	320	ND(0.53)	ND(0.52)		
The other γ	Ru-106 (Approx. 370 days)	ND	11	160	11	ND	ND	ND	ND		
	Sb-125 (Approx. 3 years)	ND	ND	95	ND	ND	9.3	ND	ND		
All β		210	1,700	880,000	160,000	220	21,000	200	ND(18)		
H-3 (Approx. 12 years)		Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis		
Sr-90（Approx. 29 years）		-	-	-	-	-	-	-	-		

* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.
* "-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (3/4)
Seawater

Unit: Bq/L

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, Unit 1 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer)	1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer)	1F, Unit 2 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)
Date of Sampling	Aug 12, 2013	Aug 12, 2013	Aug 12, 2013	Aug 13, 2013	Aug 12, 2013	Aug 12, 2013	Aug 13, 2013	Aug 13, 2013	Aug 12, 2013	Aug 12, 2013	Aug 12, 2013
Time of sampling	6:30 AM	6:20 AM	6:10 AM	6:11 AM	6:58 AM	6:20 AM	6:19 AM	6:19 AM	6:31 AM	6:37 AM	6:41 AM
Cs-134(Approx. 2 years)	ND(0.93)	ND(2.4)	3.5	34	16	24	15	6.1	20	21	39
Cs-137(Approx.30 years)	1.4	ND(2.5)	7.9	81	33	51	31	14	42	37	82
All β	ND(19)	ND(19)	25	930	320	700	390	250	370	410	340
H-3 (Approx. 12 years)	4.7	8.8	ND(120)	3700	370	2500	890	570	570	720	380
Sr-90（Approx. 29 years）	-	-	-	-	-	-	-	-	-	-	-

Unit: Bq/L

	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater	East side of the port entrance	South side of the south breakwater
Date of Sampling	Aug 12, 2013	Aug 12, 2013	Aug 12, 2013								
Time of sampling	6:48 AM	6:44 AM	5:40 AM								
Cs-134(Approx. 2 years)	22	30	ND(1.2)								
Cs-137(Approx.30 years)	45	62	ND(1.4)								
All β	390	310	ND(19)								
H-3 (Approx. 12 years)	650	400	ND(2.9)								
Sr-90（Approx. 29 years）	-	-	-								

* Data announced this time is provided in a thick-frame. The other data was announced on August 13 and 14.
* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.
* "-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (4/4)
Seawater

Unit: Bq/L

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, Unit 1 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer)	1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer)	1F, Unit 2 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)
Date of Sampling				Aug 15, 2013			Aug 15, 2013	Aug 15, 2013			
Time of sampling				6:15 AM			6:27 AM	6:27 AM			
Cs-134(Approx. 2 years)				32			25	8.9			
Cs-137(Approx.30 years)				77			54	20			
All β				1100			740	300			
H-3 (Approx. 12 years)				Under analysis			Under analysis	Under analysis			
Sr-90（Approx. 29 years）				-			-	-			

Unit: Bq/L

	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater*	East side of the port entrance*	South side of the south breakwater*
Date of Sampling											
Time of sampling											
Cs-134(Approx. 2 years)											
Cs-137(Approx.30 years)											
All β											
H-3 (Approx. 12 years)											
Sr-90（Approx. 29 years）											

* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.
* "-" indicates that the measurement was out of range.

<Reference> The Highest Dose Until the Previous Measurement (Groundwater Obtained at Bank Protection)

Unit: Bq/L

		Groundwater observation hole No.0-1	Groundwater observation hole No.1	Groundwater observation hole No.1-1	Groundwater observation hole No.1-2	Groundwater observation hole No.1-3	Groundwater observation hole No.1-4	Groundwater observation hole No.1-5
Cs-134 (Approx. 2 years)		0.66 〔8/10〕	1.1 〔7/1〕	1.9 〔7/8〕	11,000 〔7/9〕	ND	1.5 〔7/8〕	310 〔8/5〕
Cs-137 (Approx.30 years)		1.6 〔8/8〕	1.5 〔7/1〕	3.6 〔7/8〕	22,000 〔7/9〕	1.4 〔7/12〕	3.6 〔7/8〕	650 〔8/5〕
The other γ	Ru-106 (Approx. 370 days)	ND	26 〔5/24〕	7.9 〔7/8〕	95 〔7/5〕	17 〔7/22〕〔8/8〕	3.1 〔8/8〕	ND
	Mn-54 (Approx. 310 days)	ND	ND	1.0 〔7/5〕	62 〔7/5〕	ND	ND	ND
	Co-60 (Approx. 5 years)	ND	0.50 〔7/19〕	ND	3.1 〔7/8〕	ND	ND	ND
	Sb-125 (Approx. 3 years)	ND	1.7 〔7/11〕	ND	250 〔7/15〕	1.4 〔7/12〕	ND	12 〔8/8〕
All β		290 〔8/10〕	1,900 〔5/24〕	4,400 〔7/8〕	900,000 〔7/5〕〔7/9〕	160,000 〔8/12〕	330 〔7/8〕	56,000 〔8/5〕
H-3 (Approx. 12 years)		34000 〔8/10〕	500,000 〔5/24〕〔6/7〕	630,000 〔7/8〕	390,000 〔8/5〕	290,000 〔7/12〕	98,000 〔7/11〕	57,000 〔8/8〕
Sr-90(Approx. 29 years)		Under analysis	1,200 〔6/7〕	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis

Unit: Bq/L

		Groundwater observation hole No.2	Groundwater observation hole No.2-1	Groundwater observation hole No.3	Groundwater observation hole No.3-1
Cs-134 (Approx. 2 years)		0.50 〔7/9〕	0.44 〔8/1〕	3.5 〔7/25〕	1.2 〔7/25〕
Cs-137 (Approx.30 years)		1.2 〔7/11〕〔8/1〕	1.0 〔7/29〕	5.9 〔8/8〕	2.6 〔8/1〕
The other γ	Ru-106 (Approx. 370 days)	ND	ND	ND	ND
	Mn-54 (Approx. 310 days)	ND	ND	ND	ND
	Co-60 (Approx. 5 years)	ND	ND	ND	ND
	Sb-125 (Approx. 3 years)	ND	ND	ND	ND
All β		1,700 〔7/8〕	380 〔7/29〕	1,400 〔7/11〕	180 〔8/1〕
H-3 (Approx. 12 years)		870 〔8/8〕	210 〔8/5〕〔8/8〕	3,200 〔2012/12/12〕	460 〔8/1〕
Sr-90(Approx. 29 years)		54 〔5/31〕	Under analysis	8.3 〔2012/12/12〕	Under analysis

* "ND" indicates that the measurement result is below the detection limit.
* Date of sampling is provided in parentheses.

<Reference> The Highest Dose Until the Previous Measurement* (Seawater)

Unit: Bq/L

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, Unit 1 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer)	1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer)	1F, Unit 2 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)
Cs-134(Approx. 2 years)	1.8 〔6/21〕	ND	5.3 〔8/5〕	34 〔8/13〕	16 〔8/12〕	24 〔8/12〕	27 〔8/10〕	9.9 〔7/23〕	20 〔8/12〕	21 〔8/12〕	350 〔7/15〕
Cs-137(Approx.30 years)	3.3 〔6/26〕	3.1 〔7/15〕	8.6 〔8/5〕	81 〔8/13〕	33 〔8/12〕	51 〔8/12〕	56 〔8/10〕	19 〔7/23〕	42 〔8/12〕	37 〔8/12〕	770 〔7/15〕
All β	ND	20 〔7/2〕	40 〔7/3〕	1,000 〔8/11〕	320 〔8/12〕	700 〔8/12〕	600 〔8/10〕	450 〔7/16〕	370 〔8/12〕	410 〔8/12〕	1000 〔7/15〕
H-3 (Approx. 12 years)	8.6 〔6/26〕	11 〔7/15〕	340 〔6/26〕	3,800 〔8/11〕	460 〔7/15〕	1,500 〔7/29〕	2,300 〔8/11〕	1,200 〔8/4〕	500 〔8/5〕	660 〔7/29〕	240 〔8/5〕
Sr-90（Approx. 29 years）	5.8 〔6/26〕	-	7.4 〔6/26〕	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis

Unit: Bq/L

	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater	East side of the port entrance	South side of the south breakwater
Cs-134(Approx. 2 years)	22 〔8/12〕	46 〔7/8〕	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cs-137(Approx.30 years)	45 〔8/12〕	93 〔7/8〕	3.0 〔7/15〕	3.7 〔6/26〕	3.3 〔7/4〕	3.3 〔6/26〕	ND	ND	ND	ND	ND
All β	390 〔8/12〕	310 〔8/12〕	ND	31 〔6/26〕	40 〔7/4〕	60 〔7/4〕	ND	ND	ND	ND	ND
H-3 (Approx. 12 years)	430 〔7/15〕	260 〔6/26〕〔7/29〕	ND	29 〔6/26〕	44 〔7/4〕	37 〔7/4〕	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis
Sr-90（Approx. 29 years）	Under analysis	Under analysis	0.36 〔6/26〕	3.5 〔6/20〕	Under analysis	Under analysis	-	-	-	-	-

* The highest result announced in "Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection" or the other handouts is provided.
  As for "1F, North side of Unit 1-4 water intake channel", the data is obtained since January 14, 2013. For the other locations, the data is obtained since June 14.
* "ND" indicates that the measurement result is below the detection limit.
* Date of sampling is provided in parentheses.
* "-" indicates that the measurement was out of range.