Information, May, 2024

To All Missions (Embassies, Consular posts and International Organizations in Japan)

Report on the discharge record and the seawater monitoring results at Fukushima Daiichi Nuclear Power Station during April

The Ministry of Foreign Affairs wishes to provide all international Missions in Japan with a report on the discharge record and seawater monitoring results with regard to groundwater pumped from the sub-drain and groundwater drain systems, as well as, bypassing groundwater pumped during the month of April at Fukushima Daiichi Nuclear Power Station (NPS).

1. Sub-drain and Groundwater Drain Systems

In April purified groundwater pumped from the sub-drain and groundwater drain systems was discharged on the dates shown in Appendix 1. Prior to every discharge, an analysis on the quality of the purified groundwater to be discharged was conducted by Tokyo Electric Power Company (TEPCO) and the results were announced.

All the test results during the month of April have confirmed that the radiation levels of sampled water were substantially below the operational targets set by TEPCO (these operational targets are well below the density limit specified by the Reactor Regulation). The results of these analyses were also confirmed by third-party organization (Tohoku Ryokka Kankyohozen Co.).

In addition, TEPCO and Japan Atomic Energy Agency (JAEA), at the request of the Government of Japan, regularly conduct more detailed analyses on the purified groundwater. The results of JAEA's latest analyses confirmed that TEPCO's analyses were accurate and verified that the radiation levels of sampled groundwater was substantially below the operational target (see Appendix 2).

Moreover, TEPCO publishes the results of analyses conducted on seawater sampled during the discharge operation at the nearest seawater sampling post from the discharge point (see Appendix 3). The results show that the radiation levels of seawater remain lower than the density limit specified by the Reactor Regulation and significant change in the radioactivity has not been observed.

2. Groundwater Bypassing

In April, the pumped bypassing groundwater was discharged on the dates shown in Appendix 4. Prior to every discharge, an analysis on the quality of the groundwater to be discharged was conducted by TEPCO and the results were announced.

All the test results during the month of April have confirmed that the radiation levels of sampled water were substantially below the operational targets set by TEPCO (these operational targets are well below the density limit specified by the Reactor Regulation). The results of these analyses were also confirmed by Japan Chemical Analysis Center.

In addition, TEPCO and JAEA, at the request of the Government of Japan, regularly conduct more detailed analyses on the groundwater. The results of JAEA's latest analyses confirmed that TEPCO's analyses were accurate and verified that the radiation levels of the sampled groundwater were substantially below the operational target (see Appendix 5).

Moreover, TEPCO publishes analysis results on seawater sampled during the discharge operation at the nearest seawater sampling post from the discharge point (see Appendix 6). The result shows that the radiation levels in seawater remain lower than the density limit specified by the Reactor Regulation and significant change in the radioactivity has not been observed. The analysis had been conducted once a month until March 2017. Since April 2017, it is conducted four times a year because there has been no significant fluctuation in the concentration of radioactive materials in the sea water, and no influence on the surrounding environment has been confirmed.

The sampling process for analyses conducted this month is the same as the one conducted in the information disseminated last month. Results of the analyses are shown in the attached appendices:

(For further information, please contact TEPCO at (Tel: 03-6373-1111) or refer to the TEPCO's website:

http://www.tepco.co.jp/en/nu/fukushima-np/handouts/index-e.html)

Contact: International Nuclear Energy Cooperation Division, Ministry of Foreign Affairs, Tel 03-5501-8227 Results of analyses on the quality of the purified groundwater pumped from the subdrain and groundwater drain systems at Fukushima Daiichi NPS (made available by TEPCO prior to discharge)

	T	T	(Unit: Bq/L)
Date of sampling	Detected	Analytic	al body
*Date of discharge	nuclides		Third-party
Date of discharge	nuclides	TEPCO	organization
April 26th 2024	0- 404	ND (0.70)	
April 26 th , 2024	Cs-134	ND (0.70)	ND (0.60)
*Discharged on May 1 st	Cs-137	ND (0.59)	ND (0.78)
,	Gross β	ND (1.8)	ND (0.32)
2 2 2 2 2 2	H-3	740	790
April 25 th , 2024	Cs-134	ND (0.89)	ND (0.60)
*Discharged on April 30 th	Cs-137	ND (0.69)	ND (0.69)
Арііі 30	Gross β	ND (0.62)	ND (0.34)
	H-3	830	860
April 24 th , 2024	Cs-134	ND (0.68)	ND (0.64)
*Discharged on	Cs-137	ND (0.67)	ND (0.58)
April 29 th	Gross β	ND (1.7)	ND (0.31)
	H-3	750	810
April 23 rd , 2024	Cs-134	ND (0.72)	ND (0.65)
*Discharged on	Cs-137	ND (0.68)	ND (0.58)
April28 th	Gross β	ND (1.6)	ND (0.33)
	H-3	700	760
April 22 nd , 2024	Cs-134	ND (0.63)	ND (0.55)
*Discharged on	Cs-137	ND (0.58)	ND (0.61)
April 27 th	Gross β	ND (1.8)	ND (0.33)
	H-3	750	770
April 21st, 2024	Cs-134	ND (0.61)	ND (0.52)
*Discharged on	Cs-137	ND (0.65)	ND (0.73)
April 26 th	Gross β	ND (1.8)	ND (0.32)
	H-3	750	780
April 20 th , 2024	Cs-134	ND (0.77)	ND (0.62)
*Discharged on	Cs-137	ND (0.67)	ND (0.60)
April 25 th	Gross β	ND (1.8)	ND (0.32)
	H-3	730	760
April 19 th , 2024	Cs-134	ND (0.65)	ND (0.54)
*Discharged on	Cs-137	ND (0.61)	ND (0.75)
April 24 th	Gross β	ND (1.9)	ND (0.32)
	H-3	660	680
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*Discharged on April 22"d Gross β ND (0.62) H-3	ND (0.58) ND (0.31) 650 ND (0.65) ND (0.58) ND (0.30) 610 ND (0.55) ND (0.78) ND (0.31) 570 ND (0.67) ND (0.71) ND (0.31) 570	ND (0.65) 620 ND (0.55) ND (0.58) ND (1.6) 570 ND (0.98) ND (0.63) ND (2.0) 560 ND (0.71)	Gross β H-3 Cs-134 Cs-137 Gross β H-3 Cs-134 Cs-137 Gross β	April 22nd April 16th, 2024 *Discharged on April 21st April 15th, 2024 *Discharged on	
April 16th, 2024 Cs-134 ND (0.55) *Discharged on April 21st Gross β ND (1.6) *Discharged on April 20th Cs-137 ND (0.58) *Discharged on April 20th Cs-137 ND (0.63) *April 15th, 2024 Cs-134 ND (0.98) *Discharged on April 19th Cs-134 ND (0.63) *April 19th Cs-134 ND (0.71) *Discharged on April 19th Cs-137 ND (0.53) *April 13th, 2024 Cs-134 ND (0.65) *Discharged on April 18th Gross β ND (1.6) *April 12th, 2024 Cs-134 ND (0.65) *Discharged on April 18th Gross β ND (2.0) *April 12th, 2024 Cs-134 ND (0.63) *Discharged on April 17th Gross β ND (1.9) *April 11th, 202 Cs-134 ND (0.68) *April 11th, 202 Cs-134 ND (0.53) *Discharged on April 16th Gross β ND (1.8) *April 19th, 2024 Cs-134 ND (0.52) *Cs-137 ND (0.52) Gross β ND (1.8) *April 9th, 2024 Cs-134 ND (0.88) *Discharged on April 14th Gross β ND (0.56) *April 8th, 2024 Cs-134 ND (0.56) *April 8th, 2024 Cs-134 ND (0.58) *April 8th, 2024 Cs-137 ND (0.56) *April 8th, 2024 Cs-134 ND (0.58) *April 8th, 2024 Cs-134 ND (0.58) *April 8th, 2024 Cs-134 ND (0.58) *April 8th, 2024 Cs-134 ND (0.56) *April 8th, 2024 Cs-134 ND (0.63) *April 8th, 2024	650 ND (0.65) ND (0.58) ND (0.30) 610 ND (0.55) ND (0.78) ND (0.31) 570 ND (0.67) ND (0.71) ND (0.31)	620 ND (0.55) ND (0.58) ND (1.6) 570 ND (0.98) ND (0.63) ND (2.0) 560 ND (0.71)	H-3 Cs-134 Cs-137 Gross β H-3 Cs-134 Cs-137 Gross β	April 16 th , 2024 *Discharged on April 21 st April 15 th , 2024 *Discharged on	
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H-3 560 April 8 th , 2024 Cs-134 ND (0.71) *Discharged on April 13 th Gross β ND (1.9)	ND (0.71)	ND (0.56)	Cs-137	*Discharged on	
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*Discharged on April 13 th Cs-137 ND (0.63) Gross β ND (1.9)	590	560	H-3		
April 13 th Gross β ND (1.9)	ND (0.54)	ND (0.71)	Cs-134	April 8 th , 2024	
G1055 p Nul (1.9)	ND (0.69)	ND (0.63)	Cs-137		
	ND (0.34)	` ,	· ·	April 13 th	
H-3 510					
April 7 th , 2024 Cs-134 ND (0.68)	530	` ,	1	April 7 th , 2024	
*Discharged on Cs-137 ND (0.71)	ND (0.60)	ND (0.71)	-		
G1055 p Nul (1.9)	ND (0.60) ND (0.63)		•	April 12 th	
H-3 530 April 6 th , 2024 Cs-134 ND (0.62)	ND (0.60)	ND (1.9)		7 YP 11 1 E	

*Discharged on	Cs-137	ND (0.61)	ND (0.63)
April 11 th	Gross β	ND (1.7)	ND (0.31)
	H-3	570	600
April 5 th , 2024	Cs-134	ND (0.83)	ND (0.65)
*Discharged on	Cs-137	ND (0.70)	ND (0.61)
April 10 th	Gross β	ND (1.9)	ND (0.32)
	H-3	460	490
April 4 th , 2024	Cs-134	ND (0.83)	ND (0.71)
*Discharged on	Cs-137	ND (0.74)	ND (0.71)
April 9 th	Gross β	ND (1.5)	ND (0.32)
	H-3	460	480
April 3 rd , 2024	Cs-134	ND (0.77)	ND (0.62)
*Discharged on	Cs-137	ND (0.58)	ND (0.73)
April 8 th	Gross β	ND (1.9)	ND (0.33)
	H-3	410	440
April 1 st , 2024	Cs-134	ND (0.71)	ND (0.52)
*Discharged on	Cs-137	ND (0.52)	ND (0.61)
April 6 th	Gross β	ND (0.60)	ND (0.32)
	H-3	420	460
March 30 th , 2024	Cs-134	ND (0.55)	ND (0.50)
*Discharged on	Cs-137	ND (0.47)	ND (0.67)
April 4 th	Gross β	ND (1.8)	ND (0.32)
	H-3	600	610
March 29 th , 2024	Cs-134	ND (0.66)	ND (0.64)
*Discharged on	Cs-137	ND (0.47)	ND (0.62)
April 3 rd	Gross β	ND (0.66)	ND (0.32)
	H-3	670	710

- * * ND: represents a value below the detection limit; values in () represent the detection limit.
- * In order to ensure the results, third-party organizations have also conducted an analysis and verified the radiation level of the sampled water.
- * Third-party organization: Tohoku Ryokka Kankyohozen Co., Ltd

Appendix 2

Result of detailed analyses conducted by TEPCO, JAEA, and Japan Chemical Analysis Center (In order to confirm the validity of analysis, the Government of Japan also requests JAEA; and TEPCO requests Japan Chemical Analysis Center to conduct independent analyses)

	Detected		Analytical body		
Date of sampling	nuclides	JAEA	TEPCO	Japan Chemical Analysis Center	
	Cs-134	ND (0.0030)	ND (0.0047)	ND (0.0057)	
	Cs-137	0.0063	0.0096	0.0059	
April 1 st ,2024	Gross α	ND (0.47)	ND (2.0)	ND (2.3)	
April 1 ,2024	Gross β	ND (0.48)	ND (0.60)	ND (0.52)	
	H-3	440	440	450	
	Sr-90	0.0015	ND (0.0014)	ND (0.0061)	

^{*} ND: represents a value below the detection limit; values in () represent the detection limit.

(Reference) (Unit: Bq/L)

Radionuclides	Operational Targets	Density Limit specified by the Reactor Regulation	World Health Organization (WHO) Guidelines for Drinking Water Quality
Cs-134	1	60	10
Cs-137	1	90	10
Gross α	_	_	_
Gross β	3 (1) *	_	_
H-3	1,500	60,000	10,000
Sr-90	_	30	10

- \divideontimes The operational target of Gross β is 1 Bq/L in the survey which is conducted once every ten days.
- * The reference table shows the values of operational targets before discharge. Since the values after discharge contain natural radioactive materials in seawater, there will be differences between the values and the operational targets values.

Appendix 3

Results of analysis on the seawater sampled near the discharge point (North side of Units 5 and 6 discharge channel)

Data of compling	Detected publides	Sampling point
Date of sampling	Detected nuclides	(South discharge channel)

March 25 th , 2024	Cs-134	ND (0.75)
*Commission before	Cs-137	ND (0.86)
*Sampled before discharge of purified	Gross β	9.5
groundwater.	H-3	ND (0.31)

Appendix 4

Results of analyses on the water quality of the groundwater pumped up for bypassing at Fukushima Daiichi NPS (made available by TEPCO prior to discharge)

(Unit: Bq/L)

Date of sampling		Analyti	ical body
*Date of discharge	Detected nuclides	TEPCO	Third-party organization
	Cs-134	ND (0.64)	ND (0.55)
April 26 th , 2024	Cs-137	ND (0.81)	ND (0.70)
*Discharged on May 1 st	Gross β	ND (0.62)	ND (0.29)
May 1	H-3	46	46
	Cs-134	ND (0.84)	ND (0.63)
April 19 th , 2024	Cs-137	ND (0.55)	ND (0.66)
*Discharged on	Gross β	ND (0.65)	ND (0.33)
April 24 th	H-3	40	46
	Cs-134	ND (0.56)	ND (0.77)
April 12 th , 2024	Cs-137	ND (0.64)	ND (0.73)
*Discharged on	Gross β	ND (0.62)	ND (0.34)
April 17 th	H-3	43	45
	Cs-134	ND (0.75)	ND (0.60)
April 5 th , 2024	Cs-137	ND (0.75)	ND (0.58)
*Discharged on April 10 th	Gross β	ND (0.64)	ND (0.35)
April 10 ^{ss}	H-3	41	44
	Cs-134	ND (0.56)	ND (0.74)
March 29 th , 2024	Cs-137	ND (0.79)	ND (0.66)
*Discharged on	Gross β	ND (0.64)	ND (0.36)
April 3 rd	H-3	50	50
	Cs-134	ND (0.53)	ND (0.70)
March 28 th , 2024	Cs-137	ND (0.45)	ND (0.48)
*Discharged on	Gross β	ND (0.61)	ND (0.34)
April 2 nd	H-3	50	50

* * ND: represents a value below the detection limit; values in () represent the detection limit

- * In order to ensure the results, third-party organizations have also conducted an analysis and verified the radiation level of the sampled water.
- * Third-party organization: Tohoku Ryokka Kankyohozen Co., Ltd

Appendix 5

Result of detailed analyses conducted by TEPCO, JAEA, and Japan Chemical Analysis Center (In order to confirm the validity of analysis, the Government of Japan also requests JAEA; and TEPCO requests Japan Chemical Analysis Center to conduct independent analyses)

(Unit: Bq/L)

			Analytical body	
Date of sampling	Detected nuclides	JAEA	TEPCO	Japan Chemical Analysis Center
	Cs-134	ND (0.0024)	ND (0.0045)	ND (0.0061)
	Cs-137	ND (0.0021)	ND (0.0042)	ND (0.0043)
April 5 th , 2024	Gross α	ND (0.51)	ND (2.0)	ND (2.3)
April 5 , 2024	Gross β	ND (0.48)	ND (0.64)	ND (0.60)
	H-3	43	42	43
	Sr-90	ND (0.0015)	ND (0.0013)	ND (0.0062)

^{*} ND: represents a value below the detection limit; values in () represent the detection limit.

(Reference) (Unit: Bq/L)

Radionuclides	Operational Targets	Density Limit specified by the Reactor Regulation	World Health Organization (WHO) Guidelines for Drinking Water Quality
Cs-134	1	60	10
Cs-137	1	90	10
Gross α	_	_	_
Gross β	5 (1) *		_
H-3	1,500	60,000	10,000
Sr-90	_	30	10

 $[\]divideontimes$ The operational target of Gross β is 1 Bq/L in the survey which is conducted once every ten days.

The reference table shows the values of operational targets before discharge. Since the values after discharge contain natural radioactive materials in seawater, there will be differences between the values and the operational targets values.
Appendix 6

Results of analyses on the seawater sampled near the discharge point (Around South Discharge Channel)

Date of sampling	Detected nuclides	Sampling point (South discharge channel)
	Cs-134	ND (0.86)
March 22 nd , 2024	Cs-137	ND (0.47)
	Gross β	13
	H-3	ND (0.54)