Information, October, 2023

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 September

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 September at Fukushima Daiichi Nuclear Power Station (NPS).

1. Sub-drain and Groundwater Drain Systems

In September 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 September 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 September, 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 September 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)

			(Unit: Bq/L)
Data af agasalin s	Datastad	Analyti	cal body
Date of sampling *Date of discharge	Detected nuclides	TEPCO	Third-party organization
	Cs-134	ND (0.73)	ND (0.62)
September 26 th , 2023	Cs-137	ND (0.70)	ND (0.62)
*Discharged on October 1 st	Gross β	ND (2.0)	0.42
Cotobol 1	H-3	910	960
September 25 th , 2023	Cs-134	ND (0.65)	ND (0.62)
*Discharged on	Cs-137	ND (0.60)	ND (0.57)
September 30 th	Gross β	ND (2.0)	ND (0.34)
	H-3	940	970
September 24 th , 2023	Cs-134	ND (0.65)	ND (0.62)
*Discharged on	Cs-137	ND (0.59)	ND (0.51)
September 29 th	Gross β	ND (2.1)	ND (0.38)
	H-3	890	940
September 23 th , 2023	Cs-134	ND (0.55)	ND (0.67)
*Discharged on	Cs-137	ND (0.64)	ND (0.72)
September 28 th	Gross β	ND (0.18)	ND (0.34)
	H-3	840	910
September 22 nd , 2023	Cs-134	ND (0.94)	ND (0.63)
*Discharged on	Cs-137	ND (0.52)	ND (0.58)
September 27 th	Gross β	ND (0.67)	ND (0.35)
	H-3	820	870
	Cs-134	ND (0.71)	ND (0.61)
September 21 st , 2023	Cs-137	ND (0.77)	ND (0.50)
*Discharged on September 26 th	Gross β	ND (1.8)	ND (0.33)
ocptember 20	H-3	790	860
2	Cs-134	ND (0.55)	ND (0.60)
September 20 th , 2023	Cs-137	ND (0.69)	ND (0.64)
*Discharged on September 25 th	Gross β	ND (2.1)	ND (0.35)
Coptoribol 20	H-3	740	810
September 19 th , 2023	Cs-134	ND (0.66)	ND (0.64)
*Discharged on	Cs-137	ND (0.67)	ND (0.62)

H-3	September 24 th	Gross β	ND (2.0)	0.36
September 18th, 2023		<u> </u>		
September 18 th , 2023 Cs-137 ND (0.70) ND (0.54) "Discharged on September 23 th H-3 830 870 September 17 th , 2023 Cs-137 ND (0.64) ND (0.58) September 17 th , 2023 Cs-137 ND (0.74) ND (0.59) TDischarged on September 22 th Gross β ND (1.9) ND (0.34) H-3				
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Cs-134	September 23 th	-		` '
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September 16 th , 2023	September 22 nd	<u> </u>	, ,	, ,
September 16 th , 2023 Cs-137 ND (0.61) ND (0.57) *Discharged on September 21 th Gross β ND (2.0) ND (0.33) *H-3				
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H-3 560 590		Gross β	` ,	` ′
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H-3 590 640 September 9 th , 2023 *Discharged on Cs-137 ND (0.65) ND (0.58)		Gross β	, ,	` ,
*Discharged on *Disch	September 15"	H-3	, ,	, ,
*Discharged on	September 9th 2023	Cs-134	ND (0.69)	ND (0.63)
Discharged on	•	Cs-137	ND (0.65)	, ,
		Gross β	ND (2.0)	ND (0.33)

	H-3	690	730
	Cs-134	ND (0.89)	ND (0.57)
September 8th, 2023	Cs-137	ND (0.58)	ND (0.61)
*Discharged on September 13 th	Gross β	ND (0.56)	ND (0.32)
September 15	H-3	640	690
	Cs-134	ND (0.69)	ND (0.73)
September 7 th , 2023	Cs-137	ND (0.59)	ND (0.72)
*Discharged on	Gross β	ND (2.0)	ND (0.32)
September 12 th	H-3	660	720
	Cs-134	ND (0.79)	ND (0.68)
September 6 th , 2023	Cs-137	ND (0.77)	ND (0.64)
*Discharged on	Gross β	ND (2.1)	ND (0.31)
September 11 th	H-3	740	800
	Cs-134	ND (0.67)	ND (0.47)
September 5 th , 2023	Cs-137	ND (0.84)	ND (0.51)
*Discharged on	Gross β	ND (2.1)	ND (0.35)
September 10 th	H-3	880	890
	Cs-134		
September 4 th , 2023	Cs-134 Cs-137	ND (0.72)	ND (0.60)
*Discharged on		ND (0.69)	ND (0.54)
September 9 th	Gross β	ND (1.8)	ND (0.28)
	H-3	860	940
September 3 rd , 2023	Cs-134	ND (0.69)	ND (0.72)
•	Cs-137	ND (0.61)	ND (0.54)
*Discharged on September 8 th	Gross β	ND (2.2)	ND (0.33)
	H-3	800	880
September 2 nd , 2023	Cs-134	ND (0.80)	ND (0.68)
•	Cs-137	ND (0.76)	ND (0.59)
*Discharged on September 7 ^h	Gross β	ND (1.8)	ND (0.34)
O 1 1 1st 2222	H-3 Cs-134	830 ND (0.75)	880 ND (0.58)
September 1 st , 2023		ND (0.75)	ND (0.58)
*Discharged on September 6 ^h	Cs-137	ND (0.56)	ND (0.48)
September 6.	Gross β H-3	ND (0.72)	ND (0.36) 900
		850	
August 31 st , 2023	Cs-134	ND (0.61)	ND (0.60)
<u> </u>	Cs-137	ND (0.79)	ND (0.58)
*Discharged on September 5 th	Gross β	ND (2.0)	ND (0.32)
	H-3	910	960
Vitariet 30th 2022	Cs-134	ND (0.71)	ND (0.71)
August 30 th , 2023	Cs-137	ND (0.54)	ND (0.67)
*Discharged on September 4 ^h	Gross β	ND (1.5)	ND (0.33)
1	H-3	880	940

a coth	Cs-134	ND (0.66)	ND (0.55)
August 29 th , 2023	Cs-137	ND (0.67)	ND (0.59)
*Discharged on September 3 rd	Gross β	ND (2.0)	ND (0.33)
September 3	H-3	830	910
A 1.00% acco	Cs-134	ND (0.80)	ND (0.48)
August 28 th , 2023	Cs-134 Cs-137	ND (0.80) ND (0.67)	ND (0.48) ND (0.64)
August 28 th , 2023 *Discharged on September 2 nd		` ′	` ′

- * * 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 (0.0027)	ND (0.0053)	ND (0.0065)
	Cs-137	ND (0.0020)	ND(0.0039)	ND (0.0056)
Aug 2 nd ,2023	Gross α	ND (0.38)	ND (2.0)	ND (2.3)
Aug 2 ,2023	Gross β	ND (0.46)	ND (0.65)	ND (0.56)
	H-3	850	890	870
	Sr-90	0.0033	ND (0.0023)	ND(0.0054)

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

Radionuclides	Operational Targets	Density Limit specified by the Reactor Regulation	World Health Organization (WHO) Guidelines for Drinking Water Quality
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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

(Reference) (Unit: Bq/L)

 \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.

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

		()
Date of sampling	Detected nuclides	Sampling point (South discharge channel)
September 12 th ,	Cs-134	ND (0.71)
2023	Cs-137	ND (0.72)
*Sampled before	Gross β	9.4
discharge of purified groundwater.	H-3	ND (0.33)

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/
Data of campling		Analytic	cal body
Date of sampling *Date of discharge	Detected nuclides	TEPCO	Third-party organization
	Cs-134	ND (0.69)	ND (0.65)
September 21 st , 2023	Cs-137	ND (0.55)	ND (0.61)
*Discharged on September 26 th	Gross β	ND (0.59)	ND (0.34)
September 20**	H-3	47	51
	Cs-134	ND (0.66)	ND (0.67)
September 14 th , 2023	Cs-137	ND (0.72)	ND (0.51)
*Discharged on	Gross β	ND (0.62)	ND (0.34)
September 21 st	H-3	47	54
	Cs-134	ND (0.98)	ND (0.58)
September 7 th , 2023	Cs-137	ND (0.72)	ND (0.59)
*Discharged on	Gross β	ND (0.70)	ND (0.32)
September 12 th	H-3	53	54
	Cs-134	ND (0.65)	ND (0.70)
August 31 st , 2023	Cs-137	ND (0.64)	ND (0.72)
*Discharged on September 5 th	Gross β	ND (0.65)	ND (0.31)
September 5**	H-3	56	55

^{* *} 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

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 (0.0028)	ND (0.0045)	ND (0.0068)
	Cs-137	ND (0.0019)	ND (0.0038)	ND (0.0039)
Aug 3 rd , 2023	Gross α	ND (0.38)	ND (2.0)	ND (2.3)
Aug 3 , 2023	Gross β	ND (0.38)	ND (0.63)	ND (0.58)
	H-3	52	55	54
	Sr-90	ND(0.0012)	ND (0.0011)	ND (0.0054)

^{*} 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.

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

Date of sampling %conducted four times a year	Detected nuclides	Sampling point (South discharge channel)
	Cs-134	ND (0.85)
September 12 th ,	Cs-137	ND (0.68)
2023	Gross β	12
	H-3	ND (0.33)