Reference
March 16, 2017
Tokyo Electric Power Company Holdings, Inc.

Nuclide Analysis Results of Fish and Shellfish
<Ocean Area Within 20km Radius of Fukushima Daiichi Nuclear Power Station>
Samples collected in the third quarter of FY2016

[Measurement results of Sr-90 (half-life approx. 29 years) in fish] (Data summarized on March 16)

Name of Sample (Region)		Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg(Raw)] (Half-life)	
				Sr-90 (Approx. 29 years)	Reference*1 (Sum of Cs-134 and Cs-137)
Schlegel's black rockfish (whole)	*3	Around 1km Offshore of Ota River (T-S1)	Dec.16, 2016	0.066	25.8
Angel shark (whole)	*2	Around 3km Offshore of Ukedo River (T-S3)	Dec.16, 2016	0.11	138
Sebastes cheni (whole)	*2	Around 2km Offshore of Fukushima Daini (T-S7)	Dec.12, 2016	0.29	39.1
Microstomus achne (whole)	*3	Around 2km Offshore of Fukushima Daini (T-S7)	Dec.12, 2016	0.37	18
Angel shark (whole)	*2	Around 4km Offshore of Kumagawa (T-S8)	Nov.16, 2016	0.033	51.8

*The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

*ND indicates that the value is less than the detection limit of a radioactive concentration. The detection limit is provided in parenthesis in the order of Cs-134 and Cs-137.

*1 Edible parts of fish were used for the measurement.

*The Sr-90 analysis was conducted by *2KANSO CO., LTD. and by *3Kyushu Environmental Evaluation Association.

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[Measurement results of Tritium (half-life approx. 12 years) in fish]
Place of Sampling(Place No.): Around 4km Offshore of Kumagawa (T-S8)

(Data summarized on March 16)

Name of Sample (Region)	Date of Sampling	Tritium concentration (Bq/L)		Tritium concentration (Bq/kg (Raw))		Reference (Sum of Cs-134 and Cs-137) (Bq/kg (Raw))
		Free Water Tritium	Organically Bound Tritium	Free Water Tritium	Organically Bound Tritium	
Flatfish(muscle)	Oct. 21, 2016	0.083	ND(0.27)	0.066	ND(0.035)	ND
Flatfish(muscle)	Nov. 16, 2016	0.080	ND(0.26)	0.063	ND(0.036)	4.0
Flatfish(muscle)	Dec. 9, 2016	0.089	ND(0.26)	0.071	ND(0.034)	5.1

Reference

	Date of Sampling	Tritium concentration (Bq/L)
Around 4km Offshore of Kumagawa (T-S8) Seawater	Oct. 20, 2016	0.087
	Nov. 15, 2016	0.075
	Dec. 8, 2016	0.084

*The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

*The tritium analysis was conducted by Kyushu Environmental Evaluation Association.

*Edible parts of fish were used for the measurement.

*Free Water Tritium means tritium which is contained in the moisture of fish muscles and the values are compared with tritium concentrations in seawater where fish lives.
Organically Bound Tritium means tritium which is contained in dried fish muscles and the values show tritium concentrations in the vapor generated when dried fish is burned.

*The measurement results are calculated to two significant figures.

*ND, not detected, indicates that a value is less than the detection limit of a radioactive concentration. The detection limit is provided in parenthesis.