Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station >

(Data summarized on September 19)

| Place of Sampling | North of Unit 5-6 Discharge Daiichi N (Approx. 30m North of Unit 5 | IPS | Around South Discharge C Daiichi N (Appox. 1.3km South of Unit | ② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in | | |
|----------------------------------|--|-------------------------|--|---|---------------------------|--|
| Time of Sampling | Sep 18, 2 6:40 A | | Sep 18, 2 5:05 A | | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | section 6 of Appendix 2.) | |
| I-131 (Approx. 8 days) | ND | - | ND | - | 40 | |
| Cs-134 (Approx. 2 years) | ND - | | ND | - | 60 | |
| Cs-137 (Approx. 30 years) | 1.3 | 0.01 | ND | 90 | | |

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

I-131: Approx. 1.3Bq/L, Cs-134: Approx. 1.4Bq/L, Cs-137: Approx. 1.7Bq/L

^{*} Data of other nuclides is under evaluation.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

 $[\]mbox{\ensuremath{^{*}}}$ "ND" indicates that the measurement result is below the detection limit.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement >

(Data summarized on September 19)

| Place of Sampling | North of Unit 5-6 Discharge Daiichi N (Approx. 30m North of Unit 5 | IPS | Around South Discharge C Daiichi N (Appox. 1.3km South of Unit | the Reactor Regulation (Bq/L) | |
|----------------------------------|--|----------------------|--|-------------------------------|--|
| Time of Sampling | Aug 5, 2 5:55 A | | Aug 5, 2 5:20 A | | (The density limit in the water outside the surrounding monitored areas is provided in |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | section 6 of Appendix 2.) |
| Cs-134 (Approx. 2 years) | 0.14 | 0.00 | 0.23 | 0.00 | 60 |
| Cs-137 (Approx. 30 years) | 0.29 | 0.00 | 0.47 | 90 | |

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{*} Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daini Nuclear Power Station >

(Data summarized on September 19)

| Place of Sampling | 2F Around the North D (Around Unit 3-4 Disc (Approx. 10km | charge Channel) | Around the North Sid (Approx. 11km South of U Chann (Approx. 23km | Jnit 1 & 2 Discharge el) | ② Density Limit Specified by the Reactor Regulation (Bq/L) | |
|----------------------------------|---|-----------------|--|--|--|--|
| Time of Sampling | Aug 6, 2 10:00 <i>A</i> | | Aug 6, 2 7:35 A | (The density limit in the water outside the surrounding monitored areas is provided in | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | | | Scaling Factor (①/②) | section 6 of Appendix 2.) | |
| Cs-134 (Approx. 2 years) | 0.087 | 0.087 0.00 | | 0.00 | 60 | |
| Cs-137 (Approx. 30 years) | s) 0.17 0.00 | | 0.096 | 0.00 | 90 | |

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

^{*} Data of other nuclides is under evaluation.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{*} Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station, Within 20km Radius >

(Data summarized on September 19)

| Place of Sampling | South side of the (Approx. 5.5km north of Unit | | | | ② Density Limit Specified by the Reactor Regulation (Bq/L) |
|----------------------------------|--|----------------------|------------------------------|----------------------|--|
| Time of Sampling | Aug 6, 2 2:40 P | | | | (The density limit in the water outside the surrounding monitored areas is provided in |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | ①Density of Sample (Bq/L) | Scaling Factor (①/②) | section 6 of Appendix 2.) |
| Cs-134 (Approx. 2 years) | 0.044 | 0.00 | | | 60 |
| Cs-137 (Approx. 30 years) | 0.081 | 0.00 | | | 90 |

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

 $^{^{\}star} \ \text{Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.} \\$

Nuclides Analysis Result of Radioactive Materials in the Seawater <1/3>

(Data summarized on September 19)

| (Data summanzed on o | | | | | | | | | | |
|----------------------------------|---|----------------------------|---|-----------------------------|---------------------------------|-----------------------------|--|--|--|--|
| Place of Sampling (Place No.) | Around the North Channel of 2 (Around Unit 3-4 Channe (Approx. 10km | F (T-3) Discharge I) | South side of the U 6) (Approx. 5.5km nor Discharge Ch | th of Unit 5-6 | | | ② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water | | | |
| Date of Sampling | Aug 6, 20 | 13 | Aug 6, 20 |)13 | | | outside the surrounding monitored areas is provided in | | | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Sample Factor Sample | | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | section 6 of Appendix 2.) | | | |
| Cs-134 (Approx. 2 years) | 0.087 | 0.00 | 0.044 0.00 | | | | 60 | | | |
| Cs-137 (Approx. 30 years) | 0.17 | 0.00 | 0.081 | 0.00 | | | 90 | | | |
| H-3 (approx. 12yrs) | 0.93 | 0.00 | ND | _ | | | 60,000 | | | |
| ΑΙΙ β | ND | _ | ND | _ | | | _ | | | |

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{*} Nuclide analysis results of Cs-134 and Cs-137 were announced on September 19.

^{*} When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows. H-3: Approx. 0.30Bg/L, All β: Approx. 18Bg/L,

Nuclides Analysis Result of Radioactive Materials in the Seawater <2/3>

(Data summarized on September 19)

| Place of Sampling (Place No.) Date of Sampling | 15km Offshore of Daiichi NPS (T-5) I | Upper Layer | 3km Offshore of Uk D1) Upper I Aug 6, 20 | _ayer | 3km Offshore of I Daiichi NPS (T-D5) Aug 6, 20 | Upper Layer | the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding | |
|--|---|-------------------|--|-------------------|--|-------------------|---|--|
| Detected Nuclides | ①Density of Sample | Scaling Factor | ①Density of Sample | Scaling Factor | ①Density of Sample | Scaling Factor | monitored areas is provided in section 6 of Appendix 2.) | |
| (Half-life) | (Half-life) (Bq/L) | | (Bq/L) | (1)/2) | (Bq/L) | (1)/2) | | |
| Cs-134 (Approx. 2 years) | * | _ | * | _ | * | _ | 60 | |
| Cs-137 (Approx. 30 years) | * | _ | * _ | | * | _ | 90 | |
| H-3 (approx. 12yrs) | ND | _ | ND | _ | ND | _ | 60,000 | |
| All α | ND | ND – | | ND – | | _ | _ | |
| ΑΙΙ β | ND | _ | ND | _ | ND | _ | _ | |
| Sr-90 (Approx. 29 years) | * | _ | * | _ | * | _ | 30 | |

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{*} When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

H-3: Approx. 0.37Bq/L, All α: Approx. 1.7Bq/L, All β: Approx. 17Bq/L,

^{* &}quot;*" provided in the "density of sample" column means the sample is under analysis.

Nuclides Analysis Result of Radioactive Materials in the Seawater <3/3>

(Data summarized on September 19)

| | _ | | | | | (= 0.10 | 3diffiliarized off ocpteriber 13) | |
|----------------------------------|---|-----|---------------------------------|---------------|--|---|--|--|
| Place of Sampling (Place No.) | 3km Offshore of Fuk NPS (T-D9) Up | | | | | ② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water | | |
| Date of Sampling | Aug 7, 20 |)13 | | | | | outside the surrounding monitored areas is provided in | |
| Detected Nuclides (Half-life) | ①Density of Scaling Sample Factor (①/②) | | ①Density of Sample (Bq/L) | Sample Factor | | Scaling Factor (1)/2) | section 6 of Appendix 2.) | |
| Cs-134 (Approx. 2 years) | * | _ | | | | | 60 | |
| Cs-137 (Approx. 30 years) | * | _ | | | | | 90 | |
| H-3 (approx. 12yrs) | ND | - | | | | | 60,000 | |
| All α | ND | _ | | | | | _ | |
| ΑΙΙ β | ND | _ | | | | | _ | |
| Sr-90 (Approx. 29 years) | * | _ | | | | | 30 | |

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{*} When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

H-3: Approx. 0.37Bq/L, All α: Approx. 1.7Bq/L, All β: Approx. 17Bq/L,

^{* &}quot;*" provided in the "density of sample" column means the sample is under analysis.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Ibaraki Prefecture >

Reference

(Data summarized on September 19)

| , | | | | | | | | | | | | | | |
|----------------------------------|---------------------------------|-----------------------------|---------------------------------|---|---------------------------------|-----------------------------|---------------------------------|--------------------------------------|---------------------------------|-----------------------------|---------------------------------|-----------------------------|---|--|
| Place of Sampling (Place No.) | · • (1-A) | | 3km C | 3km Offshore of Kujihama Shore (T-B) | | | | 3km Offshore of Oarai Shore (T-C) | | | | | | |
| (Place No.) | Upper La | ayer | Lower La | ayer | Upper Layer | | Lower Layer | | Upper Layer | | Lower Layer | | Reactor Regulation (Bg/L) | |
| Time of Sampling | Sep 9, 2013 7:22 AM | | Sep 9, 2013 7:22 AM | | Sep 11, 2 7:59 A | | Sep 11, 2 8:02 A | | Sep 11, 2013 7:44 AM | | Sep 11, 2013 7:44 AM | | (The density limit in the water outside the | |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | surrounding monitored areas is provided in section 6 of Appendix 2.) | |
| Cs-134 (Approx. 2 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 60 | |
| Cs-137 (Approx. 30 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 90 | |

| Place of Sampling (Place No.) | 3km | | of Hirai Shore -D) | | 3km Offshore of Hasaki Shore (T-E) | | | | 3km Offshore of Isohara Shore (T-Z) | | | | ② Density Limit Specified by the Reactor Regulation |
|----------------------------------|---------------------------------|-----------------------------|---------------------------------|-----------------------------|---------------------------------------|-----------------------------|---------------------------------|-----------------------------|-------------------------------------|-----------------------------|---------------------------------|-----------------------------|---|
| (Flace 140.) | Upper La | ayer | Lower La | ayer | Upper La | ayer | Lower La | Lower Layer | | ayer | Lower Layer | | (Bq/L) |
| Time of Sampling | Sep 10, 2 2:23 P | | Sep 10, 2 2:24 P | | Sep 10, 2 1:22 P | | Sep 10, 2 1:22 P | | | | Sep 9, 2013 10:05 AM | | (The density limit in the water outside the |
| Detected Nuclides (Half-life) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | ①Density of Sample (Bq/L) | Scaling Factor (1)/2) | areas is provided in section 6 of Appendix 2.) |
| Cs-134 (Approx. 2 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 60 |
| Cs-137 (Approx. 30 years) | ND | - | ND | - | ND | - | ND | - | ND | - | ND | - | 90 |

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

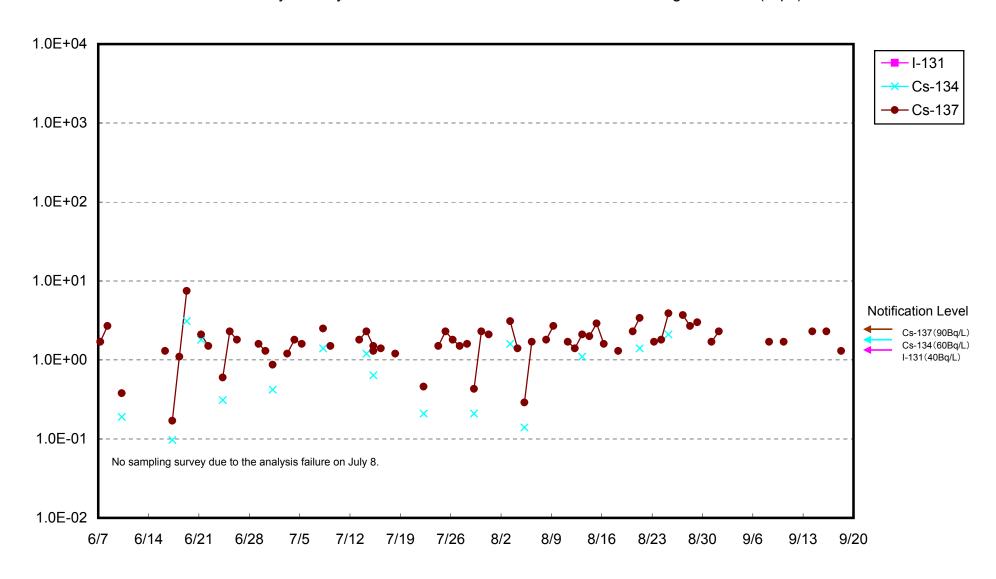
Cs-134: Approx.1.2Bq/L, Cs-137: Approx.1.3Bq/L

^{*} Data of other nuclides is under evaluation.

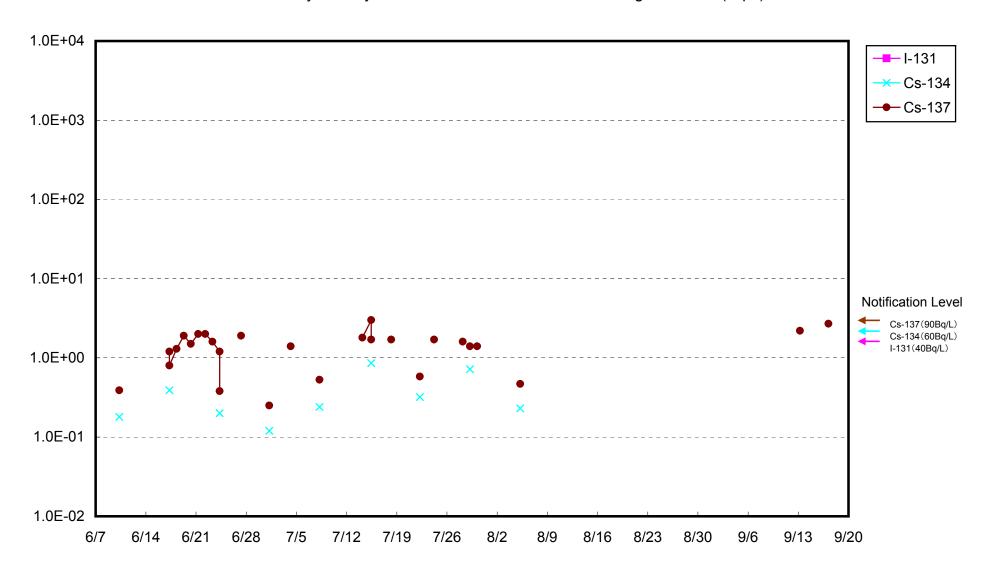
^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

 $[\]ensuremath{^{\star}}$ "ND" indicates that the measurement result is below the detection limit.

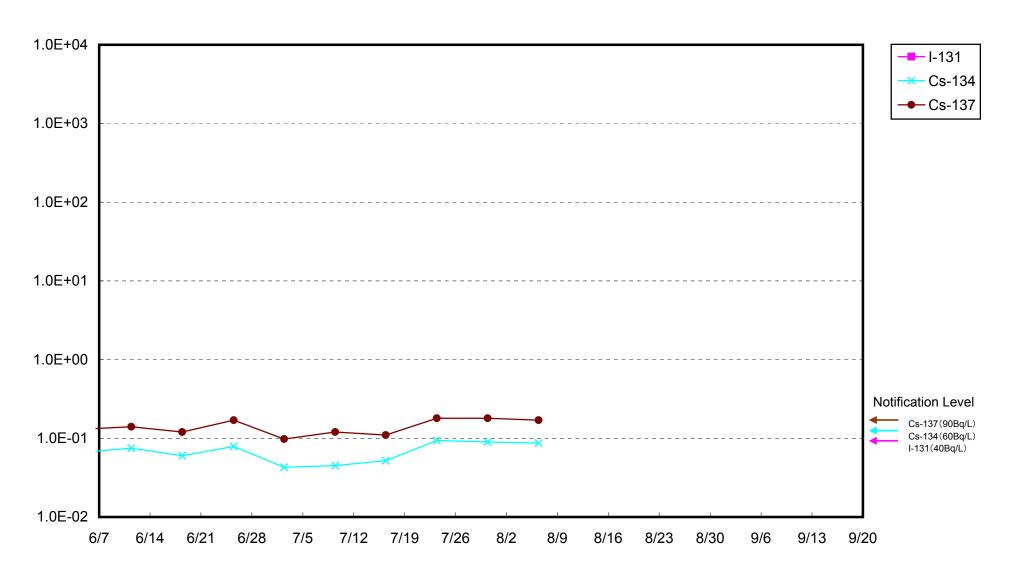
Radioactivity Density of the Seawater at 1F Units 5-6 North Discharge Channel (Bq/L)



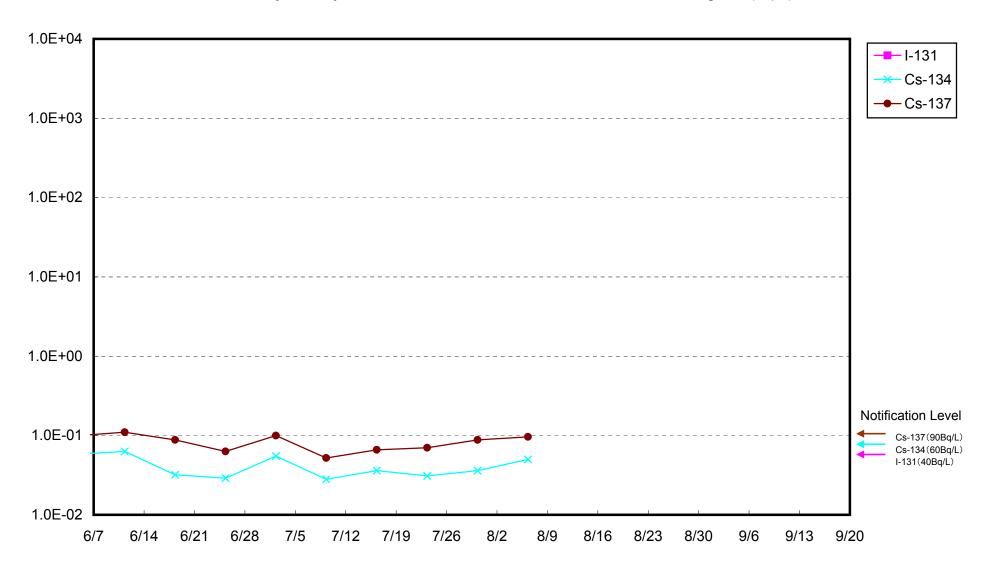
Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)



Radioactivity Density of the Seawater at 2F North Discharge Channel (Bq/L)



Radioactivity Density of the Seawater Around the South Side of Kitasakogawa (Bq/L)



Radioactivity Density of the South Side of the Ukedo Port (Bq/L)

