**Plant Status of Fukushima Daiichi Nuclear Power Station**

January 4, 2012
Tokyo Electric Power Company

<Draining Water on Underground Floor of Turbine Building (T/B)>

◇Status of highly concentrated accumulated radioactive water treatment facility and storage tank facility

[Treatment Facility]

・10:37 on December 27, 2011: We started 2nd cesium adsorption facility. At 10:43 am, we reached the regular flow rate.

・ 9:13 on January 4, 2012: We stopped the 2nd cesium adsorption facility temporarily to backwash the filter because the flow rate decreases after the resumption of operation on December 27.

・14:36 on January 4, 2012: We restarted the 2nd cesium adsorption facility. At 14:48, we reached the regular flow rate.

[Storage Facility]

・2011/6/8～ Large tanks to store and keep treated or contaminated water have been transferred and installed sequentially.

◇Accumulated water in vertical shafts of trenches and at basement level of building

| Unit | Draining water source→Place transferred | Status |
|---|---|---|
| Unit 2 | ・Unit 2T/B→Central Radioactive Waste Treatment Facility [Process Main Building、Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)] | ・From 15:22 on December 28, 2011 to 9:44 on January 3, 2012 – Transferred |
| Unit 3 | ・Unit 3T/B→Central Radioactive Waste Treatment Facility [Process Main Building、Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)] | ・ 10:01 on January 3, 2012 – Transferring |
| Unit 6 | ・Unit 6T/B→Temporary tanks | ・10:00-16:00 on January 4, 2012 - Transferring |

| Place transferred | Status of Water Level (As of January 4 at 7:00) |
|---|---|
| Process Main Building | Water level: O.P.+ 2,825 mm(Accumulated total increase:4,042 mm) 30mm increase since 7:00 on January 3, 2012 |
| Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building) | Water level: O.P.+ 2,983 mm(Accumulated total increase:3,709 mm) 96mm increase since 7:00 on January 3, 2012 |

◇Water level of the vertical shaft of the trench, T/B and R/B(As of January 4 at 7:00)

| | Vertical Shaft of Trench | T/B | R/B |
|---|---|---|---|
| Unit 1 | O.P. <+ 850 mm (No change since 7:00 on January 2, 2012) | O.P.+ 2,999 mm (25mm increase since 7:00 on January 3, 2012) | O.P.+ 4,243 mm (1mm increase since 7:00 on January 3, 2012) |
| Unit 2 | O.P.+ 3,158 mm (66mm increase since 7:00 on January 3, 2012) | O.P.+ 3,134 mm (60mm increase since 7:00 on January 3, 2012) | O.P.+ 3,264 mm (51mm increase since 7:00 on January 3, 2012) |

| | | | |
|---|---|---|---|
| Unit 3 | O.P.+ 3,214 mm (10mm decrease since 7:00 on January 3, 2012) | O.P.+ 3,171 mm (25mm decrease since 7:00 on January 3, 2012) | O.P.+ 3,441 mm (18mm decrease since 7:00 on January 3, 2012) |
| Unit 4 | — | O.P.+ 3,171 mm (5mm decrease since 7:00 on January 3, 2012) | O.P.+ 3,170 mm (14mm decrease since 7:00 on January 3, 2012) |

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater(Reference)

| Place of sampling | Date of sampling | Time of sampling | Ratio of density limit (times) | | |
|---|---|---|---|---|---|
| | | | I-131 | Cs-134 | Cs-137 |
| Around 30m north from discharge canal of 5,6U, 1F | 2012/1/3 | 8:35 | ND | 0.02 | 0.02 |
| Around 330m south from discharge channel of 1-4U, 1F | 2012/1/3 | 8:15 | ND | 0.03 | 0.04 |
| Around discharge channel of 3,4U, 2F | 2012/1/3 | 8:10 | ND | 0.02 | 0.02 |
| Around 7km south from discharge channel of 1,2U, 2F | 2012/1/3 | 7:50 | ND | 0.02 | 0.01 |

・Others: samples from 1 location at offshore of Fukushima Prefecture (sampled on January 2, 2012) showed ND for all three major nuclides (Iodine-131, Cs-134,137).

<Cooling of Spent Fuel Pools >(As of January 4 at 11:00)

| Unit | Cooling type | Status of cooling | Temperature of water in Pool |
|---|---|---|---|
| Unit 1 | Circulating Cooling System | Under operation | 14.0 ℃ |
| Unit 2 | Circulating Cooling System | Under operation | 13.8 ℃ |
| Unit 3 | Circulating Cooling System | Under operation | 26.5 ℃ |
| Unit 4 | Circulating Cooling System | Under operation | 21 ℃ |

[Unit 3]

・16:54 on December 30, 2012: As there was often the tendency that absorbing pressure decreased until now and a sign of the strainer jamming may occur in future when we continue operating, until January 4,We decided to stop the cooling of the spent fuel pool temporarily and stopped this cooling system in consideration of a current pool water temperature degree being low enough with approximately 13 ℃ and radiation exposure by countercurrent work of the strainer.
And after December 31, 2011, we operate the primary system of this system once a day due to confirm the spent fuel pool water temperature.
(Expected pool water temperature increase: approximately 5.0～6.0 ℃ per day)

・ 9:56 on January 4, 2012: We restart the continual operation of the alternative primary cooling system. After the resumption, we observe the inlet pressure of the pumps and brush the strainer.

・

< Water Injection to Pressure Containment Vessels > (As of January 4 at 11:00)

| Unit | Status of water injection | Feed-water nozzle Temp. | Reactor pressure vessel Bottom temp. | Pressure of primary containment vessel |
|---|---|---|---|---|
| Unit 1 | Injecting freshwater (Feed Water System: Approx.4.8 $m^3$/h,Core Spray System: Approx.1.9 $m^3$/h) | 26.6℃ | 27.3℃ | 105.1 kPaabs |
| Unit 2 | Injecting freshwater (Feed Water System: Approx.1.9 $m^3$/h, Core Spray System: Approx.8.1 $m^3$/h) | 52.9℃ | 54.7℃ | 109 kPaabs |

| | | | | |
|---|---|---|---|---|
| Unit 3 | Injecting freshwater (Feed Water System: Approx.2.9 $m^3$/h, Core Spray System: Approx.6.0 $m^3$/h) | 47.8℃ | 55.2℃ | 101.6 kPaabs |

【Unit 1】・About atmosphere temperature in Primary Containment Vessel, we are watching a tendency of the 1 point (C point) that the temperature increase from December 22, 2011 and 2 points(D point and E point) that the temperature increase afterwards gently.

C point (Max) approximately 54.6℃(December 28, 2011 at 18:00) → approximately 42.3℃(January 4 at 11:00)

D point (Max) approximately 35.8℃(December 29, 2011 at 17:00) → approximately 32.1℃(January 4 at 11:00)

E point (Max) approximately 40.0℃(December 29, 2011 at 17:00) → approximately 35.1℃(January 4 at 11:00)

[Unit 4][Unit 5][Unit 6]・No major change

<Others>

・2011/10/7～ Continuously implementing water spray using water after purifying accumulated water of Unit 5 and Unit 6 to prevent spontaneous fire of trimmed trees and diffusion of dust.

・2012/1/3～ We take the dust sampling by emission filter facility at the top of the reactor building of Unit 1.

End