

Plant Status of Fukushima Daiichi Nuclear Power Station

August 24, 2011
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]

- 6/17 20:00 Full operation started.
- 6/24 12:00 Treatment started at desalination facilities
- 6/27 16:20 Circulating injection cooling started.
- 7/2 18:00 We completed installing buffer tanks and resumed circulating injection cooling via buffer tanks.
- 8/7 16:11 Evaporative Concentration Facility, which was additionally installed to Water Treatment Facility to produce fresh water from concentrated seawater generated at Water Desalination Facility, has started full operation.
- 8/18 14:43 We started operation of the water treatment facility.
(We started treatment of accumulated water at series operation including highly concentrated radioactive materials by cesium adsorption Instrument, 2nd cesium adsorption Instrument and decontamination instrument)
- 15:50 We confirmed flow rate reached normal level ,water treatment facility operated stably and operation status had no problem)
- 8/19 14:00 We stopped operation of Water Treatment Facility in order to transition to parallel operation of the line from cesium adsorption instrument to decontamination instrument and the line of 2nd cesium adsorption instrument.
- 15:44 We started operation of the line from cesium adsorption instrument to decontamination instrument of Water Treatment Facility. At 15:54 the flow rate achieved steady state.
- 19:33 We activated second cesium adsorption facility (System B) and started parallel operation. At 19:41, the flow rate achieved steady state.
- 8/23 16:00 We confirmed that Water Desalination 1B (Type of Reverse Osmosis Membrane) had stopped. After confirming there were no problems, at 18:20 we resumed it.

[Storage Facility]

From June 8, big 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 |
|------|--|--|
| 2u | ·2u Vertical Shaft of Trench → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)] | ·8/18 16:19 ~ Transferring is in operation |
| 3u | ·3u T/B → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)] | ·8/21 9:39 ~ 8/24 9:30 Transferred |
| | ·3u T/B → Central Radioactive Waste Treatment Facility [Process Main Building] | ·8/23 16:15 ~ Transferring is in operation |
| 6u | ·6u Turbine Building → temporary tanks | ·8/23 10:00 ~ 8/24 16:00 Transferred |
| | ·Temporary tanks →Mega Float | ·8/24 No transfer planned |

| Transfer to: | Status of Water Level (as of 7:00 on 8/24) |
|---|--|
| Process Main Building | Water level: O.P.+ 4,961mm (Accumulated total increase: 6,178mm) 133mm decrease from 8/23 7:00 |
| Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building) | Water level: O.P.+ 3,432mm (Accumulated total increase: 4,158mm) 451 mm increase from 8/23 7:00 |

Water level at the vertical shaft of the trench and T/B (as of 8/24 7:00)

| | Vertical Shaft of Trench (from top of grating to surface) | T/B |
|----|---|--|
| 1u | O.P. <+850mm (>3,150mm), No change since 8/23 7:00 | O.P. +4,920mm, No change since 8/23 7:00 |
| 2u | O.P. +3,527mm (473mm), 15mm decrease since 8/23 7:00 | O.P. +3,549mm, 12mm decrease since 8/23 7:00 |
| 3u | O.P. +3,654mm (346mm), 18mm decrease since 8/23 7:00 | O.P. +3,501mm, 52mm decrease since 8/23 7:00 |
| 4u | - | O.P. +3,549mm, 19mm decrease since 8/23 7:00 |

- Water level at Unit 1 R/B: 8/24 7:00, O.P. +4,839 mm, 5mm increase since 8/23 7:00.

<Monitoring of Radioactive Materials>

As for the samples collected on August 23, which are 4 points of shores and 7 points of offshore of Fukushima Prefecture, main three nuclides (Iodine-131, Cesium-134 and Cesium-137) were all ND (not detected.)

<Cooling of Spent Fuel Pools> (as of 8/24 11:00)

| Unit | Cooling type | Status of cooling | Temperature of water in Pool |
|------|----------------------------|---------------------------|------------------------------|
| 1u | Circulating Cooling System | Operating from 8/10 11:22 | 29.0 |
| 2u | Circulating Cooling System | Operating from 5/31 17:21 | 34.0 |
| 3u | Circulating Cooling System | Operating from 6/30 18:33 | 31.6 |
| 4u | Circulating Cooling System | Operating from 7/31 10:08 | 40 |

[Unit 4] 8/20 ~ We started operation of desalinating facility of the spent fuel pool.

8/24 From 10:35 to 12:29, we injected hydrazine to the spent fuel pool (approx. 2 m³)

<Water Injection to Pressure Containment Vessels> (as of 8/24 11:00)

| Unit | Status of injecting water | Temp. of feed-water nozzle | Bottom of reactor pressure vessel | Pressure of Primary Containment Vessel |
|------|---|----------------------------|-----------------------------------|--|
| 1u | Injecting freshwater (approx. 3.8m ³ /h) | 91.2 | 87.5 | 127.5kPaabs |
| 2u | Injecting freshwater (approx. 3.8m ³ /h) | 106.8 | 114.5 | 114kPaabs |
| 3u | Injecting freshwater (approx. 7.0m ³ /h) | 112.0 | 108.2 | 101.5kPaabs |

[Units 4] [Unit 5] [Units 6] [Common spent fuel pool] No particular changes in parameters.

<Others>

- 4/10 ~ Clearance of outdoor rubbles by remote control to improve working conditions.
- 6/3 ~ Restoration works of port related facilities has been under operation.
- 7/12~ Construction work of installing steel pipe sheet pile against water leakage in the water intake channel.
- 6/28 ~ Main construction work for installing the cover for the reactor building of Unit 1
- 8/10 Started setting up iron framework of the cover for the reactor building of Unit 1
- 8/19 We implemented sampling of spent fuel pool water of Unit 1 to 3
- 8/20 We started sampling water in Spent fuel Pool of Unit 4.
- 8/23 around 12:30 We confirmed minute amount of water leakage from the hose of primary system of alternative cooling facility for Unit 4 Spent Fuel Pool. We are continuing cooling the Spent Fuel Pool.
- 8/24 We implemented sampling dust at the upper side of Reactor Building of Unit 3.

END