

Plant Status of Fukushima Daiichi Nuclear Power Station

August 13, 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.
- 8/1 17:00 Water injection and water flow test of Cesium adsorption Instruments No.2 (SARRY) started.
- 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.
- 8/12 18:17 A process error alarm was generated in decontamination instruments and the water treatment facility was stopped.
22:59 No facility malfunction was found. We estimated it was transient malfunction of their control system and restarted the facility.
23:33 Water treatment was resumed. (Reached normal flow rate)
- 8/13 7:11 We found malfunction of Evaporative Concentration Apparatus (2B) of water desalination facility and manually stopped the apparatus. We continue operating other apparatuses in the facility.

[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 [Process Main Building] | ·8/10 16:47 ~ Transferring is in operation |
| 3u | ·3u T/B → Central Radioactive Waste Treatment Facility [Process Main Building] | ·8/5 8:42 ~ Transferring is in operation |
| 6u | ·6u Turbine Building → temporary tanks | ·8/12 10:00 ~ 16:00 Transferred |
| | ·Temporary tanks → Mega Float | ·8/9 10:00 ~ 8/12 17:00 Transferred (1) ·8/13 17:00 ~ Transferring is in operation |

| Transfer to: | Status of Water Level (as of 7:00 on 8/13) |
|---|--|
| Process Main Building | Water level: O.P.+ 5,336mm (Accumulated total increase: 6,553mm) 51 mm increase from 8/12 7:00 am |
| Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building) | Water level: O.P.+ 3,587mm (Accumulated total increase: 4,313mm) 27 mm increase from 8/12 7:00 am |

- (1) 8/9 10:00 Started the transferring of accumulated water from temporary tanks to Mega Float.
- Around 10:12 Since the leakage from transferring hose was confirmed, we stopped transferring.
- 13:35 We replaced the leaked part of transferring hose and resumed transferring.

Water level at the vertical shaft of the trench and T/B (as of 8/13 7:00 am)

| | Vertical Shaft of Trench (from top of grating to surface) | T/B |
|----|---|---|
| 1u | O.P. <+850mm (>3,150mm), No change since 8/12 7:00 am | O.P. +4,920mm, No change since 8/12 7:00 am |
| 2u | O.P. +3,575mm (425mm), 12mm decrease since 8/12 7:00 am | O.P. +3,592mm, 13mm decrease since 8/12 7:00 am |
| 3u | O.P. +3,617mm (383mm), 5mm decrease since 8/12 7:00 am | O.P. +3,521mm, 9mm decrease since 8/12 7:00 am |
| 4u | - | O.P. +3,536mm, 3mm decrease since 8/12 7:00 am |

- Water level at Unit 1 R/B: 8/13 7:00 am, O.P. +4,599 mm, 20mm decrease since 8/12 7:00 am.

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

* All the samples collected at 4 points along the coast and 8 points offshore of Fukushima Prefecture on August 12 were all below the detectable threshold.

<Cooling of Spent Fuel Pools>

| Unit | Cooling type | Status of cooling | Temperature of water in Pool |
|------|----------------------------|------------------------------|------------------------------|
| 1u | Circulating Cooling System | Operating from 8/10 11:22 am | 37.5 (8/13 11:00) |
| 2u | Circulating Cooling System | Operating from 5/31 5:21 pm | 39.0 (8/13 11:00) |
| 3u | Circulating Cooling System | Operating from 6/30 6:33 pm | 33.3 (8/13 11:00) |
| 4u | Circulating Cooling System | Operating from 7/31 10:08 pm | 45 (8/13 11:00) |

<Water Injection to Pressure Containment Vessels> (as of 8/13 11:00 am)

| Unit | Status of injecting water | Temp. of feed-water nozzle | Bottom of reactor pressure vessel | Pressure of Primary Containment Vessel |
|------|---|----------------------------|-----------------------------------|--|
| 1u | Injecting freshwater (approx. 3.7m ³ /h) | 103.5 | 93.8 | 130.9kPaabs |
| 2u | Injecting freshwater (approx. 3.9m ³ /h) | 108.7 | 115.2 | 122kPaabs |
| 3u | Injecting freshwater (approx. 9.1m ³ /h) | 108.1 | 104.3 | 101.5kPaabs |

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

- We adjusted water injection volumes of Unit 2 & 3 from 3.5m³/h to 3.8m³/h and from 9.5m³/h to 9.0m³/h respectively from 8/12 7:30 pm.

<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

END