

Plant Status of Fukushima Daiichi Nuclear Power Station

June 28, 2011

Tokyo Electric Power Company

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

Construction status of accumulated radioactive water treatment system and storage tank facility

[Treatment Facility]

- 6/17 20:00 ~ Full operation started.
- 6/23 0:43 ~ Passing water test started at water treatment facilities with high radiation water
- 6/24 12:00 ~ Water treatment started at water desalination facilities
- 6/25 15:24 Water treatment was reactivated after automatically tripped.
16:10 Water treatment automatically tripped again.
16:35 We confirmed that the trip was triggered by “water level low” at the oil separator. We selected the other water level gauge with the same automatic trip function and restarted the water treatment facilities.
- 6/27 16:20 We started circulating injection cooling with treated water in the water treatment facilities in addition to water injection from filtration tank in Unit 1 to 3.
17:55 We stopped supplying treatment water because we found water leakage in pipes that connect treatment water tank with reactor injection pumps.
- 6/28 15:55 Resuming circulating injection cooling after fixing pipes.

Water treatment was temporarily suspended for the flashing to change vessels during 13:00-14:00 on June 23, 10:00-12:50 on June 24, 10:00-15:00 on June 25, 10:00-18:10 on June 26 and 10:06~12:24 on June 28.

[Storage Facility]

- June 8, big tanks to store and to keep treated or contaminated water being transferred and installed sequentially

Accumulated water in vertical shafts of trenches and at basement level of building (as of 6/28 7:00)

Unit	Draining water source → Place transferred	Status
2u	2u Vertical Shaft of Trench → Process Main Building, Central Radioactive Waste Treatment Facility (4/19 10:08am ~ 5/26 4:01pm, 6/4 6:39pm ~ 6/8 2:20pm, 6/8 6:03pm ~ 6/16 8:40am, 6/22 9:56am ~ 6/27 9:02am, 6/27 5:07pm ~)	[Process Main Building] Water level: O.P.+4,875 mm (10mm decrease from 6/27 7:00am) (Accumulated total increase : 6,092mm)
3u	3u T/B → Miscellaneous Solid Waste Volume Reduction Treatment Building of Central Radioactive Waste Treatment Facility (5/17 18:04 ~ 5/25 9:10, 6/18 13:31 ~ 6/20 0:02) 3u T/B → Process Main Building of Central Radioactive Waste Treatment Facility (6/14 10:05am ~ 6/16 8:46am, 6/21 3:32pm ~ , 6/27	[Miscellaneous Solid Waste Volume Reduction Treatment Building] Water level: O.P.+3,135m (20mm increase from 6/27

Daiichi)					
Iwasawa shore, Naraha town (16km from Fukushima Daiichi)	6/27	7:55am	ND	0.13	0.08

All the data of following 10 locations (20 points in total: 3, 8 am 15km offshore collected on June 27 (upper and lower layer).) the result is below detection limit.

Iwasawa Shore, Naraha town: 3, 8 and 15 km offshore

Hirono town: 15km offshore

North part of Iwaki city: 3km offshore

Natsuigawa, Iwaki city: 3km offshore

Onhama port, Iwaki city: 3km offshore

Ena Iwaki city: 3km offshore

Numanouchi city, Iwaki city: 3km offshore

Toyoma city, Iwaki city: 3km offshore

Alos, all the data of following 5 locations (10 points in total: 3km offshore collected on June 24 and 25)(upper and lower layer) we offshore collected on June 27 (upper and lower layer).), the result is under detection limit.

Takado, Onahama shore, Ibaraki Pref.: 3km offshore

Kujihama shore, Ibaraki Pref.: 3km offshore

Oarai shore, Ibaraki Pref.: 3km offshore

Hirai shore, Ibaraki Pref.: 3km offshore

Hasaki Town shore, Ibaraki Pref.: 3km offshore

<Water Injection and Spraying to Spent Fuel Pools>

Results	Unit 3	From 3:00pm to 5:18pm, injected boric-acid solution by Fuel Pool Cooling and Clean up System. (approx. 60t)
Plans	Unit 3	From 3:00 pm, injected boric-acid solution by Fuel Pool Cooling and Clean up System is planned.

- 5/31 ~ , circulating cooling system for 2u Spent Fuel Pool in service. Pool water temperature 6/28 11:00am:

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<Water Injection to Reactor Pressure Vessels> (as at 6/28 11:00)

Unit	Status of injecting water	Temp. of feed-water nozzle	Bottom of reactor pressure vessel
1u	Injecting freshwater (approx. 3.1m ³ /h)*	110.2	100.8
2u	Injecting freshwater (approx. 3.6m ³ /h)	109.6	120.3
3u	Injecting freshwater (approx. 9.1 ~ 9.2m ³ /h)	153.7 *	127.2

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

*At 11:47am on June 28' as we confirmed some decrease of the injected water into the reactor of Unit 1, we set the injection volume of 3.5m³ /h

<Injection of Nitrogen Gas to the Primary Containment Vessel of Unit 1>

- Primary Containment Vessel pressure: 156.3 (4/7 1:20am) → 136.5 kPaabs, (6/28 11:00pm) approx. 54,200m³.

*Due to the internal power line switch, from 8:51 am to 3:07 pm on June 27, the operation of Nitrogen Injection system was temporarily suspended.

<Others>

- 4/10 ~ Clearance of outdoor rubbles by a remote control to improve working conditions.
- 4/26 ~ Spraying dust inhibitor in the site of the power station. (on 6/27, west side of Unit 5 & 6 reactor building, etc, approx.. 5,300², 6/27 and on 6/28 around filtrating tanks).
- 5/10 ~ Clearing of rubble in front of carry-in gate for large stuff of reactor building of Unit 3 by robots.
- 5/13 ~ Preparation work for installation of Reactor Building Cover of Unit 1.
- 6/3 ~ Restoration works of port related facilities carried out.
- 6/7 ~ 6/20 Installation of support structure into the bottom of fuel spent pool of reactor building of Unit 4.
- 6/21 ~ Concrete filling and grout started.
- 6/25 Airflow survey was conducted near the airlock and the large equipment carry-in entrance, R/B, Units 1&2.
- 6/27 Following the completion of Okuma line 2 stoppage work (June 20 to 26) in order to conduct repair of Unit 1 and 2 switching station, the internal power line switch is being conducted.
- 6/27 Operating an emergency diesel generator of Unit 5 (5A) on trial, and operate practically.
- 6/28 Operating an emergency diesel generator of Unit 5 (5B) on trial, and operate practically.
- 6/28 Injection water into the reactor well of reactor building of Unit 4 and.
- 6/28 Began to construct the main body of the building for installing the cover for the reactor building of Unit 1.

END