Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 1
(As of 17:00 March 21st, 2011)

Spent Fuel Pool Water Temperature
°C
Condition: No data available

Reactor Pressure A: 0.299 MPa
Reactor Pressure B: 0.272 MPa
Condition: No large fluctuation

Reactor Water Level A: -1,750 mm
Reactor Water Level B: -1,750 mm
Condition: No flooding of top of active fuel until the above level

Reactor Water Temperature: °C
Condition: No data available

PCV*3 Pressure: 0.15 MPa
Condition: No large fluctuation

S/P*4 Water Temperature: °C
Condition: No data available

S/P*4 Pressure: 0.155 MPa
Condition: No large fluctuation

Major Events after the earthquake
11th 14:46: Under operation, Automatic shutdown by the earthquake
11th 15:42: Report based on the Article 10 (Total loss of A/C power)
11th 16:36: Occurrence of the Article 15 event (Inability of water injection of the Emergency Core Cooling System)
12th 12:00: Occurrence of the Article 15 event (Unusual rise of the pressure in PCV)
12th 14:30: Started to vent
12th 15:36: Sound of explosion
12th 20:20: Started to inject seawater and borated water to core

Current Conditions: Seawater is being injected

Future Operation: Recovering power supply and continuous injection of seawater to the core. Monitoring water temperature in the pool and so on.

(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 2
(As of 17:00 March 21st, 2011)

Spent Fuel Pool Water Temperature
°C
Condition: 50 °C

Reactor Pressure A: 0.078 MPa
Reactor Pressure B: 0.076 MPa
Condition: No large fluctuation

Reactor Water Level A: -1,350 mm
Condition: No flooding of top of active fuel until the above level

Reactor Water Temperature: °C
Condition: No data available

PCV*3 Pressure: 0.12 MPa
Condition: No large fluctuation

S/P*4 Water Temperature: °C
Condition: No data available

S/P*4 Pressure: 0 kPa
Condition: Down scale

Major Events after the earthquake
11th 14:46: Under operation, Automatic shutdown by the earthquake
11th 15:42: Report based on the Article 10 (Total loss of A/C power)
11th 16:36: Occurrence of the Article 15 event (Inability of water injection of the Emergency Core Cooling System)
14th 13:25: Occurrence of the Article 15 event (Loss of reactor cooling functions)
14th 22:50: Occurrence of the Article 15 event (Unusual rise of the pressure in PCV)
15th 6:10: Sound of explosion
15th around 6:20: Possible damage of the suppression chamber
20th 15:05 ~ 17:20: Approximately 40 ton seawater injection to the Spent Fuel Pool via Fire Extinguish Line
20th 15:46: Power Center received electricity.
23rd 18:22: The white smoke generated.

Current Conditions: Seawater is being injected

Future Operation: Recovering power supply and continuous injection of seawater to the core. Monitoring water temperature in the pool and so on.

(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)
Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 3
(As of 17:00 March 21st, 2011)

**Major Events after the earthquake**

- 11th 14:46 Under operation, automatic shutdown by the earthquake
- 11th 15:42 Report based on the Article 10 (Total loss of A/C power)
- 12th 5:10 Occurrence of the Article 15 event (inability of water injection of the Emergency Core Cooling System)
- 13th 9:20 Started to vent
- 14th 7:44 Occurrence of the Article 15 event (Unusual rise of the pressure in PCV)
- 14th 11:01 Sound of explosion
- 14th around 8:30 White smoke generated
- 17th 9:48~10:01 Water discharge by the helicopters of Self-Defense Force (4 times)
- 18th~19th Water spray from the ground by High pressure water-carbon trucks (Police: once, Self-Defense Force: 5 times)
- 18th before 14:00~14:36 Water spray from the ground by 6 fire engines of Self-Defense Force
- 18th~19th Water spray from the ground by a fire engine of the U.S. military
- 19th 0:00~01:00 Water spray by Tokyo Fire Department
- 19th 14:10~19:30 Water spray by Tokyo Fire Department
- 20th 11:00 Pressure of PCV rose(320kPa). Afterward fell.
- 20th 20:32 ~ 21st 3:58 Water spray by Tokyo Fire Department
- 21st about 15:55 Grayish smoke generated

**Current Conditions:** Continuous operations for water spray over the pool and seawater injection to the core, and continuous recovering works of external power supply

**Future Operation:** Recovering power supply and continuous injection of seawater to the core.

(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

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Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 4
(As of 17:00 March 21st, 2011)

**In periodic inspection outage**

- Water temperature in the pools is not available
- No fuel is inside the reactor core

**Major events after the earthquake**

- In periodic inspection outage when the earthquake occurred.
- 11th 15:42 Report based on the Article 10 (Total loss of A/C power)
- 14th 4:08 Water temperature in the Spent Fuel Pool, 84°C
- 15th 6:14 Damage of wall in the 4th floor confirmed
- 15th 9:38 Fire occurred in the 3rd floor. (12:25 extinguished)
- 16th 5:45 Fire occurred. TEPCO couldn't confirm any fire on the ground. (6:15)
- 20th around 18:30~19:45 Water spray over the Spent Fuel Pool by Self-Defense Force
- 21st 6:37~8:41 Water spray over the Spent Fuel Pool by Self-Defense Force
- 21st about 15:00 Work for laying cable to Power Center was completed.

**Current Conditions:** No fuel is in RPV. Water was evaluated to remain in the Pool (by TEPCO)

** Future Operation:** Recovering power supply and continuous operations for water spray over the pool

(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)
Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 5
(As of 17:00 March 21st, 2011)

In periodic inspection outage

Water Temperature in the Pool: 42.3°C
Condition: Recovery of heat removal function

Reactor Pressure: 0.188MPa
Reactor Water Level: 2,069mm
Reactor Water Temperature: 55.2°C
Condition: Pressure is under control.

※Heat removal was carried out alternately for the water in the Reactor Core and the Spent Fuel Pool.

Current Conditions:
Cold shutdown at 14:30 March 20th,
Receiving electricity from external power supply at 11:36 March 21th.

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 6
(As of 17:00 March 21st, 2011)

In periodic inspection outage

Water Temperature in the Pool: 36.5°C
Condition: Recovery of heat removal function.

Reactor Pressure: 0.104MPa
Reactor Water Level: 1,560mm
Reactor Water Tem: 23.0°C
Condition: Pressure is under control.

※Heat removal was carried out alternately for the water in the Reactor Core and the Spent Fuel Pool.

Future Operation: Work for recovery of external power supply.