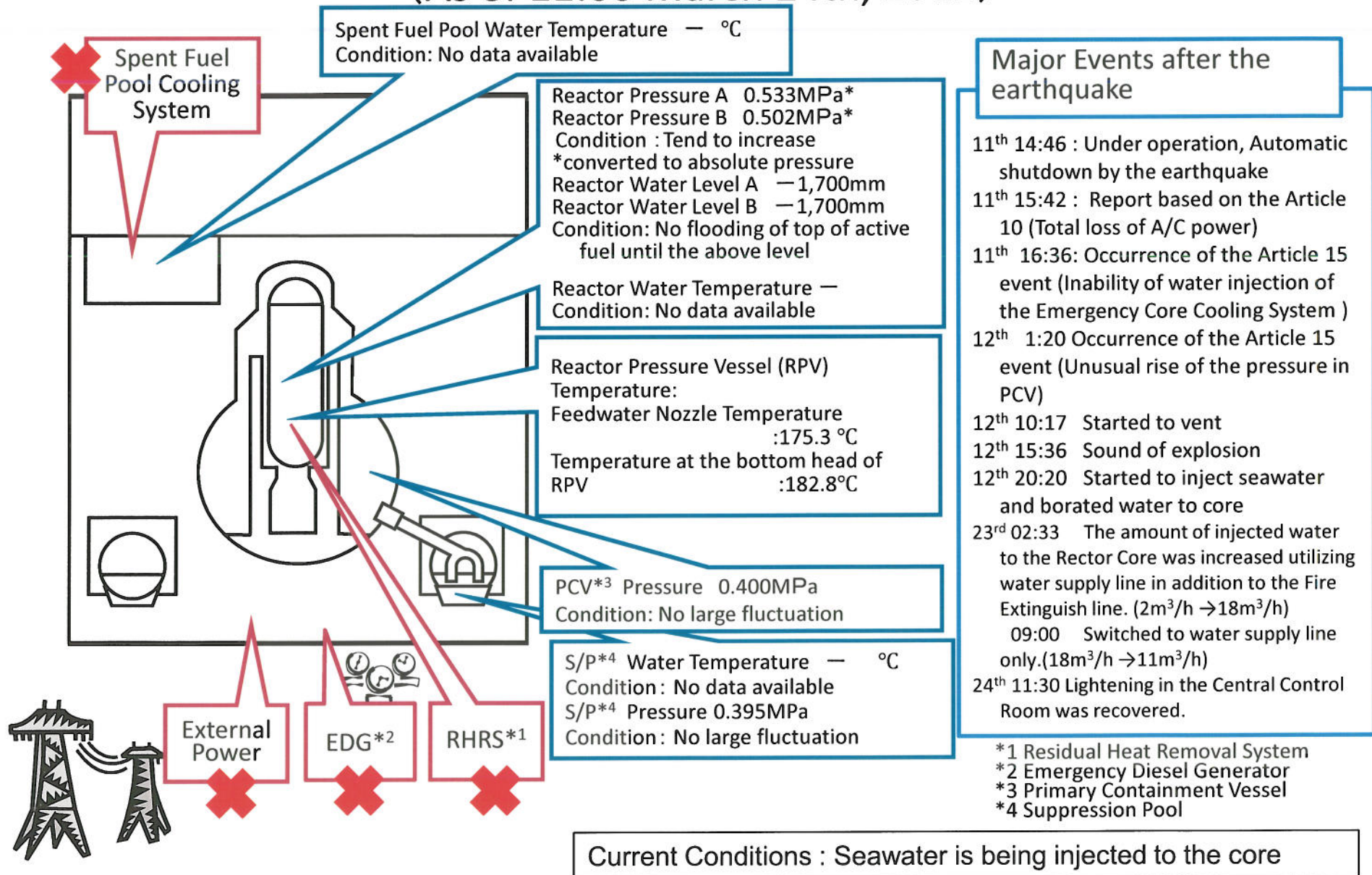
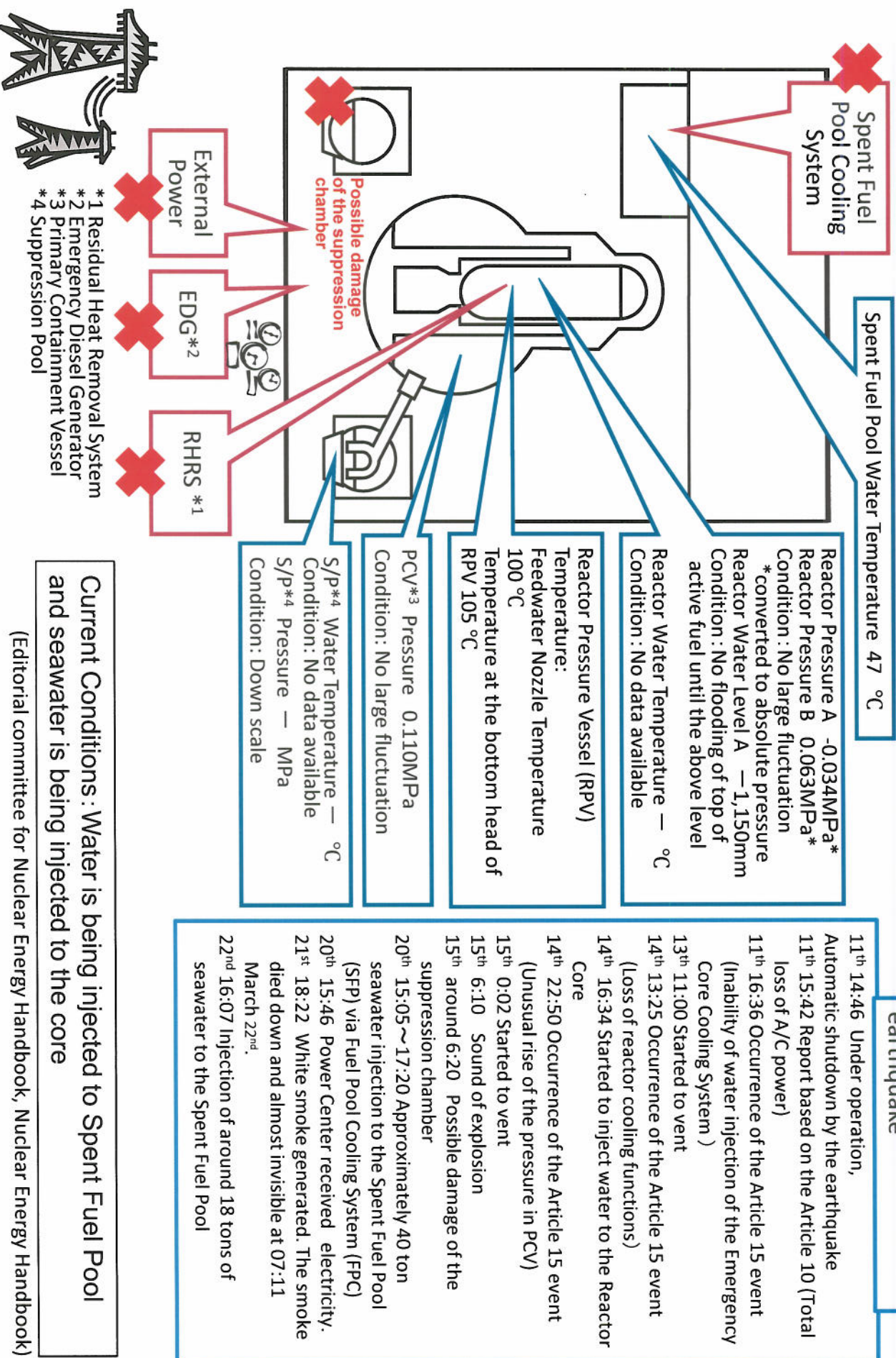


Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 1 (As of 11:00 March 24th, 2011)



Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 2 (As of 11:00 March 24th, 2011)



Major Events after the earthquake

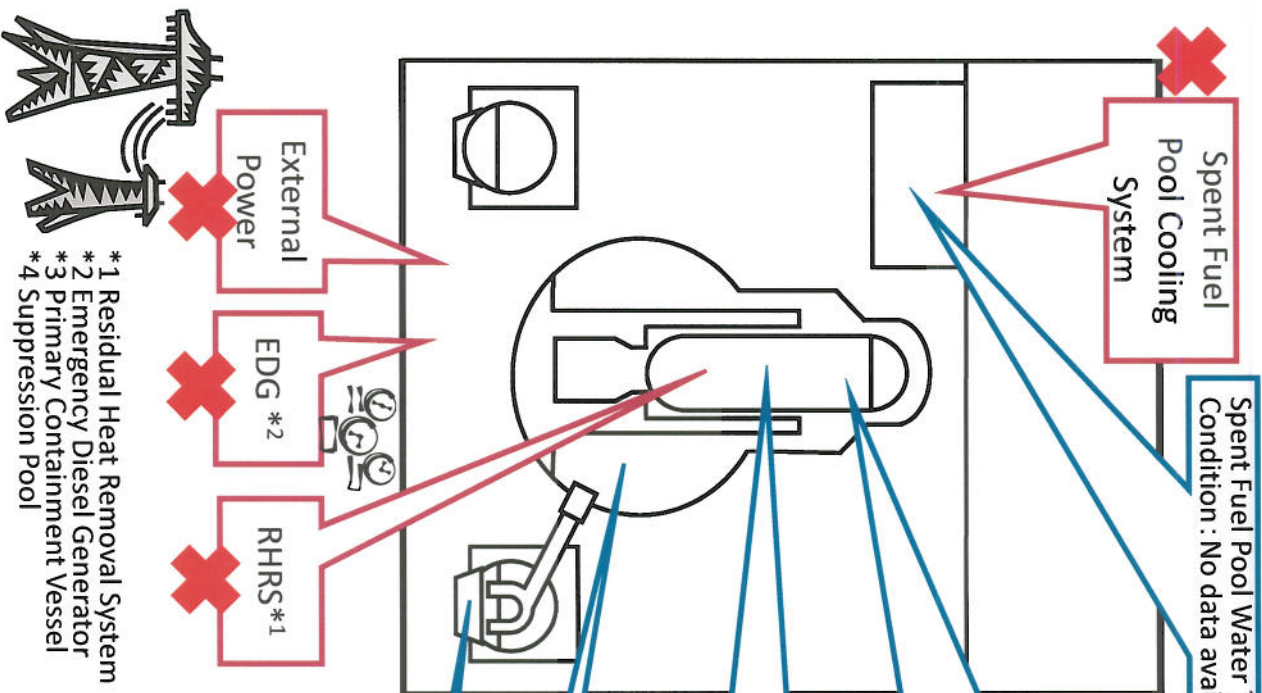
- 11th 14:46 Under operation, Automatic shutdown by the earthquake
- 11th 15:42 Report based on the Article 10 (Total loss of A/C power)
- 11th 16:36 Occurrence of the Article 15 event (Inability of water injection of the Emergency Core Cooling System)
- 13th 11:00 Started to vent
- 14th 13:25 Occurrence of the Article 15 event (Loss of reactor cooling functions)
- 14th 16:34 Started to inject water to the Reactor Core
- 14th 22:50 Occurrence of the Article 15 event (Unusual rise of the pressure in PCV)
- 15th 0:02 Started to vent
- 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 (SFP) via Fuel Pool Cooling System (FPC)
- 20th 15:46 Power Center received electricity.
- 21st 18:22 White smoke generated. The smoke died down and almost invisible at 07:11 March 22nd.
- 22nd 16:07 Injection of around 18 tons of seawater to the Spent Fuel Pool

Current Conditions: Water is being injected to Spent Fuel Pool and seawater is being injected to the core

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

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 3

(As of 11:00 March 24th, 2011)



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

Reactor Pressure A 0.137MPa*
Reactor Pressure C 0.002MPa*
Condition : No large fluctuation
*converted to absolute pressure
Reactor Water Level A —1,900mm
Reactor Water Level B — 2,300mm
Condition : No flooding of top of active fuel until the above level

Reactor Water Temperature — °C
Condition: No data available

Reactor Pressure Vessel (RPV) Temperature
Feedwater Nozzle Temperature : 14.1°C(under survey)
Temperature at the bottom head of RPV :185.5°C

PCV*3 Pressure 0.107MPa
Condition: Down scale

S/P*4 Water Temperature — °C
Condition : No data available
S/P*4 Pressure 0.199MPa
Condition: Down scale

External Power
EDG #2
RHRS #1

- *1 Residual Heat Removal System
- *2 Emergency Diesel Generator
- *3 Primary Containment Vessel
- *4 Suppression Pool

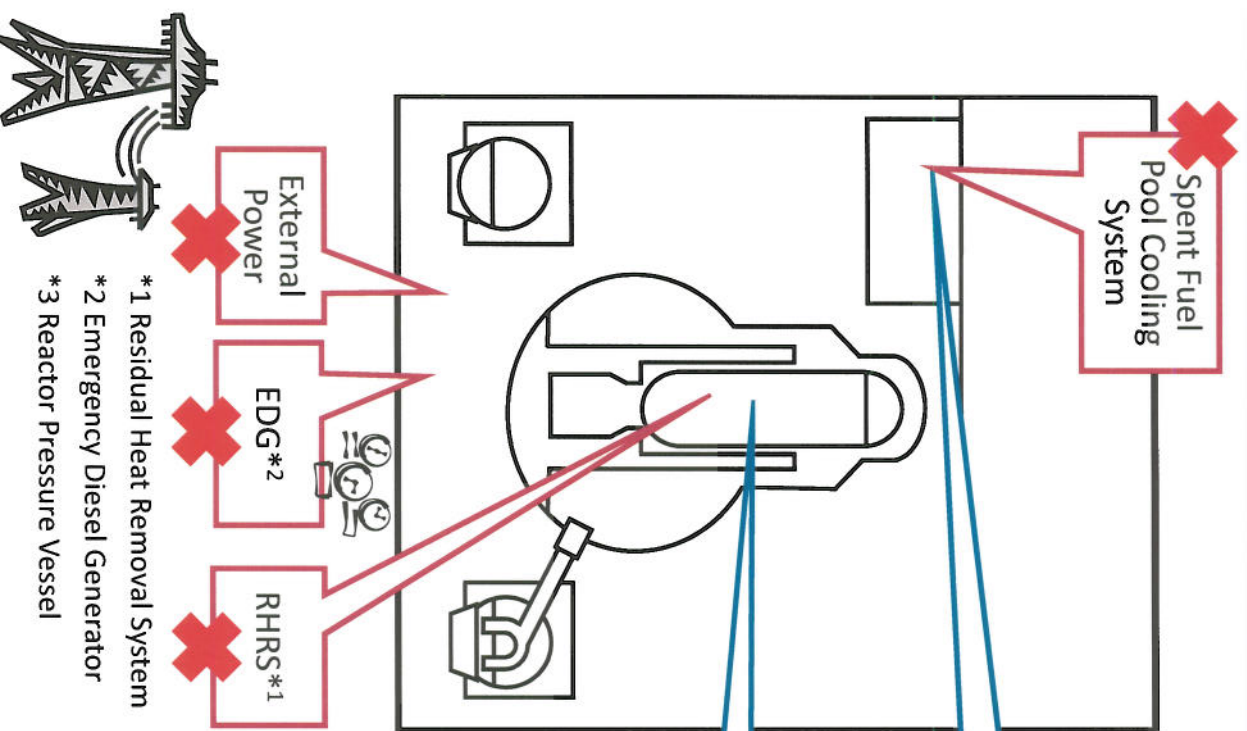
Major Events after the earthquake

- 11th 14:46 Under operation, Automatic shutdown by the earthquake
- 11th 5:42 Report based on the Article 10 (Total loss of A/C power)
- 12th 20:41 Started to vent
- 13th 5:10 Occurrence of the Article 15 event (Inability of water injection of the Emergency Core Cooling System)
- 13th 9:20 Started to vent
- 13th 13:12 Started to inject seawater and borated water to core
- 14th 5:20 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
- 16th around 8:30 White smoke generated.
- 17th 9:48 ~10:01 Water discharge by the helicopters of Self-Defense Force (4 times)
- 19:05 ~20:07 Water spray from the ground by High pressure water-cannon trucks (Police: once, Self-Defense Force: 5 times)
- 18th before 14:00 ~14:38 Water spray from the ground by 6 fire engines of Self-Defense Force
- ~14:45 Water spray from the ground by a fire engine of the US Military
- 19th 0:00 ~01:00 Water spray by Tokyo Fire Department
- 19th 14:10 ~ 20th 3:40 Water spray by Tokyo Fire Department
- 20th 11:00 Pressure of PCV rose(320kPa).Afterward fell.
- 20th 20:39 ~ 21st 3:58 Water spray by Tokyo Fire Department
- 21st about 15:55 Grayish smoke generated and was confirmed to be died down at 17:55.
- 22nd 15:10 ~15:59 Water spray by Tokyo Fire Department
- 22nd 22:43 Lightning in the Central Control Room was recovered.
- 23rd 11:03 ~13:20 Injection of about 35ton of sea water to the Spent Fuel Pool (SFP) via the Cooling and Purification Line (FPC)
- 23rd around 16:20 Black smoke generated and was confirmed to died down at around 23:30 and 24th 4:50.
- 24th 5:35 Injection of sea water to SFP via FPC (12:08 Confirmed the injection of 4~5t/h)

Current Conditions : Water spray to Spent Fuel Pool and sea water injection to the Reactor Core

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 4

(As of 11:00 March 24th, 2011)



In periodic inspection outage

Spent Fuel Pool Water Temperature - °C
Condition: Indication failure

No fuel is inside the reactor core

Major events after the earthquake

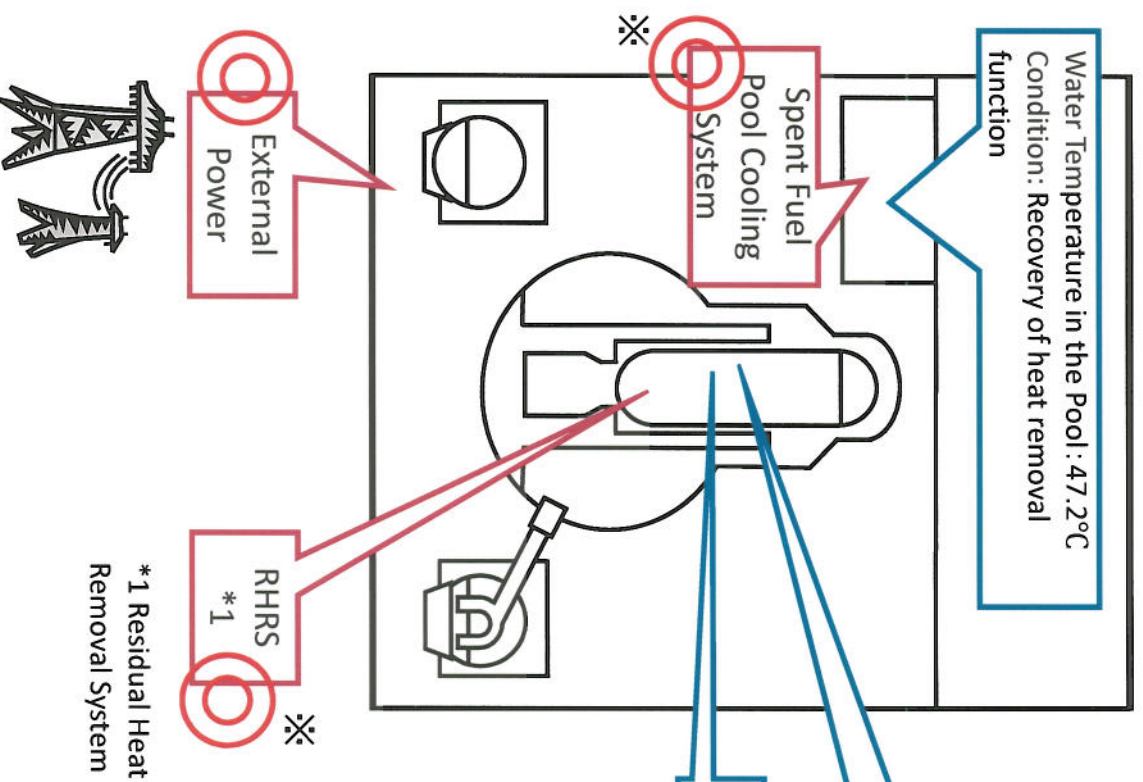
- In periodic inspection outage when the earthquake occurred.
- 11th 15:42 Report based on the Article 10 (Total loss of A/C power)
- 14th 4:08 Water temperature in the Spent Fuel Pool, 84°C
- 15th 6:14 Partial damage of wall in the 4th floor confirmed
- 15th 9:38 Fire occurred in the 3rd floor. (12:25 extinguished)
- 16th 5:45 Fire occurred. TEPCO couldn't confirm any fire on the ground. (6:15)
- 20th 8:21~9:40 Water spray over the Spent Fuel Pool by Self-Defense Force
- 20th around 18:30~19:46 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.
- 22nd 10:35 Power Center received electricity
- 22nd 17:17~20:32 Water spray by Concrete Pump Track
- 23rd 10:00~13:02 Water spray by Concrete Pump Track

Current Conditions: No fuel is in RPV*3. Water spray to Spent Fuel Pool

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

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 5 (As of 11:00 March 24th, 2011)

In periodic inspection outage



Current Conditions:
Cold shutdown at 14:30 March 20th.
Receiving electricity from external power supply from 11:36 March 21st.
Seawater pump for Residual Heat Removal (RHR) was automatically stopped when the power supply was switched from the temporary to the permanent at 17:24 March 23rd.

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 6 (As of 11:00 March 24th, 2011)

In periodic inspection outage

Water Temperature in the Pool : 26.0°C
Condition : Recovery of heat removal function.

Current Conditions :
Cold shutdown at 19:27 March 20th
Receiving electricity from external power supply from 19:17 March 22nd.

Spent Fuel Pool Cooling System ❌

Reactor Pressure : 0.109MPa*
Reactor Water Level : 2.360mm
Reactor Water Temperature : 24.4°C
Condition : Pressure is under control.
* converted to absolute pressure

Reactor Pressure Vessel Temperature:
Monitoring by Reactor Water Temperature

RHRS*1 ❌

*1 Residual Heat Removal System

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

External Power ❌