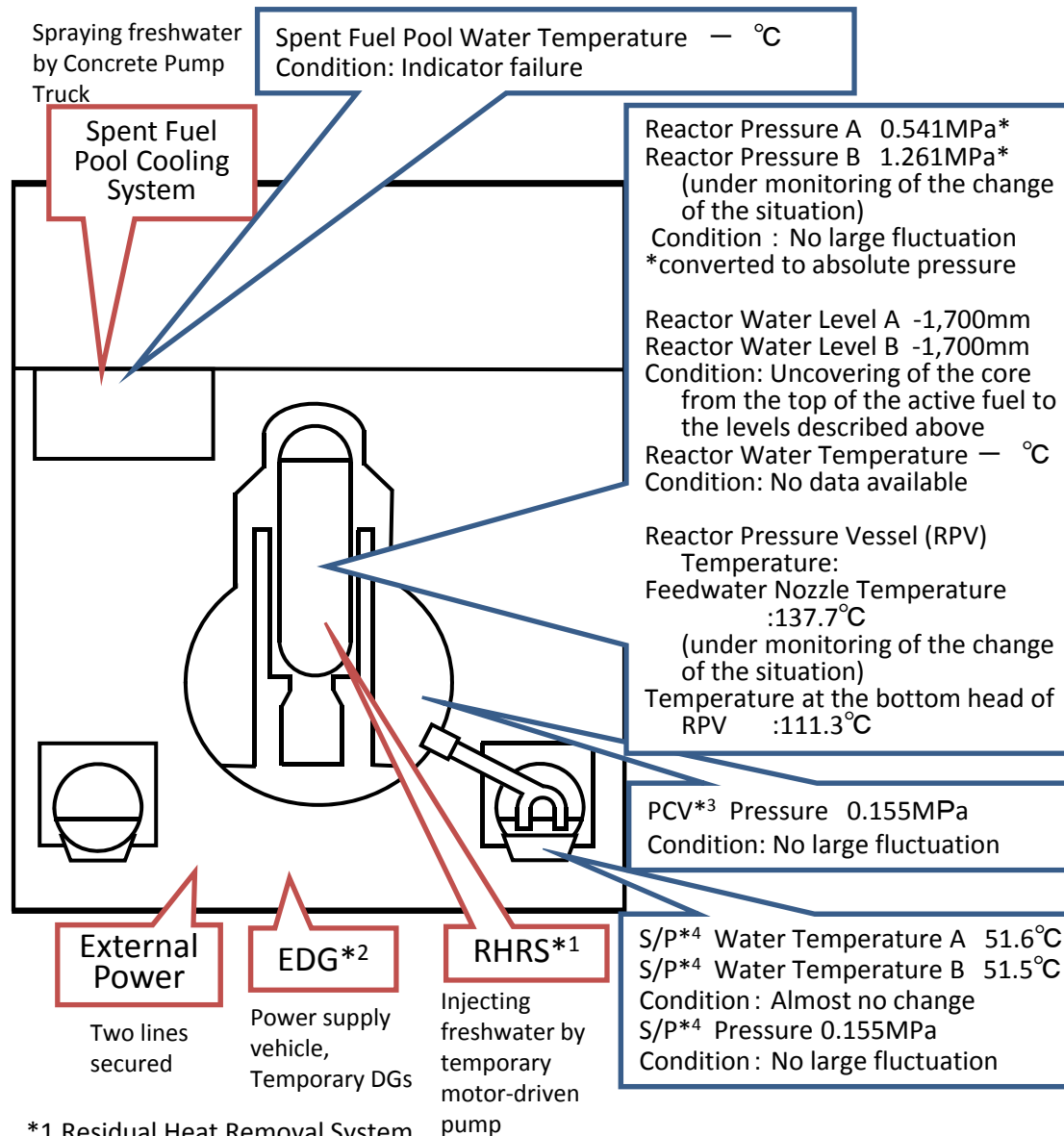


Conditions of Fukushima Dai-ichi Nuclear Power Station **Unit 1**

(As of 2:00 April 25th, 2011)

Major Events after the Earthquake



March 11th 14:46 Under operation, Automatic shutdown by the earthquake
 March 11th 15:42 Report based on the Article 10 (Total loss of A/C power)
 March 11th 16:36 Occurrence of the Article 15 event (Inability of water injection of the Emergency Core Cooling System)
 March 12th 01:20 Occurrence of the Article 15 event (Unusual rise of the pressure in PCV)
 March 12th 10:17 Started to vent.
 March 12th 15:36 Sound of explosion
 March 12th 20:20 Started to inject seawater and borated water to the Reactor Core.
 March 23rd 02:33 The amount of injected water to the Reactor Core was increased utilizing the Feedwater Line in addition to the Fire Extinguish Line. (2m³/h →18m³/h)
 09:00 Switched to the Feedwater Line only.(18m³/h →11m³/h)
 March 24th 11:30 Lighting in the Central Control Room was recovered.
 March 25th 15:37 Started to inject fresh water.
 March 29th 08:32 Switched to the water injection to the Reactor Core using the temporary motor-driven pump.
 March 31st 12:00 ~2nd 15:26 Started to transfer the stagnant water from the Condensate Storage Tank (CST) to the Surge Tank of Suppression Pool Water (SPT)
 March 31st 13:03~16:04 Water spray by Concrete Pump Truck (Fresh water)
 April 3rd 12:02 The power supply to the temporary motor-driven pump was switched from the temporary power supply to the external power supply.
 April 3rd 13:55 Started to transfer the water from the Condenser to CST.
 April 6th 22:30 Started the operation for the injection of nitrogen to PCV.
 April 7th 01:31 Confirmed starting the injection of nitrogen to PCV.
 April 9th 04:10 Started using highly pure nitrogen generator in the injection of nitrogen to PCV.
 April 10th 09:30 Completed transferring the water from the Condenser to CST.
 April 11th around 17:16 Loss of external power supply due to an earthquake occurred (at Hamadori in Fukushima Prefecture) and water injection to the Reactor Core and nitrogen injection to PCV were suspended.
 April 11th 17:56 External power supply was recovered.
 April 11th 18:04 Resumed injecting water to the Reactor Core.
 April 11th 23:19 Restarted operation for injecting nitrogen to PCV.
 April 11th 23:34 Confirmed starting injection of nitrogen to PCV.
 April 17th 16:00~17:30 Confirmed the situation in the reactor building using an unmanned robot.
 April 18th 11:50~12:12 Stopped the water injection into the reactor core to replace the current hose with a new one.
 April 19th 10:23 Completed the work of strengthening connection of the power supplies between Units 1-2 and Units 3-4.

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

Current Conditions : Fresh water is being injected to the Spent Fuel Pool and the Reactor Core

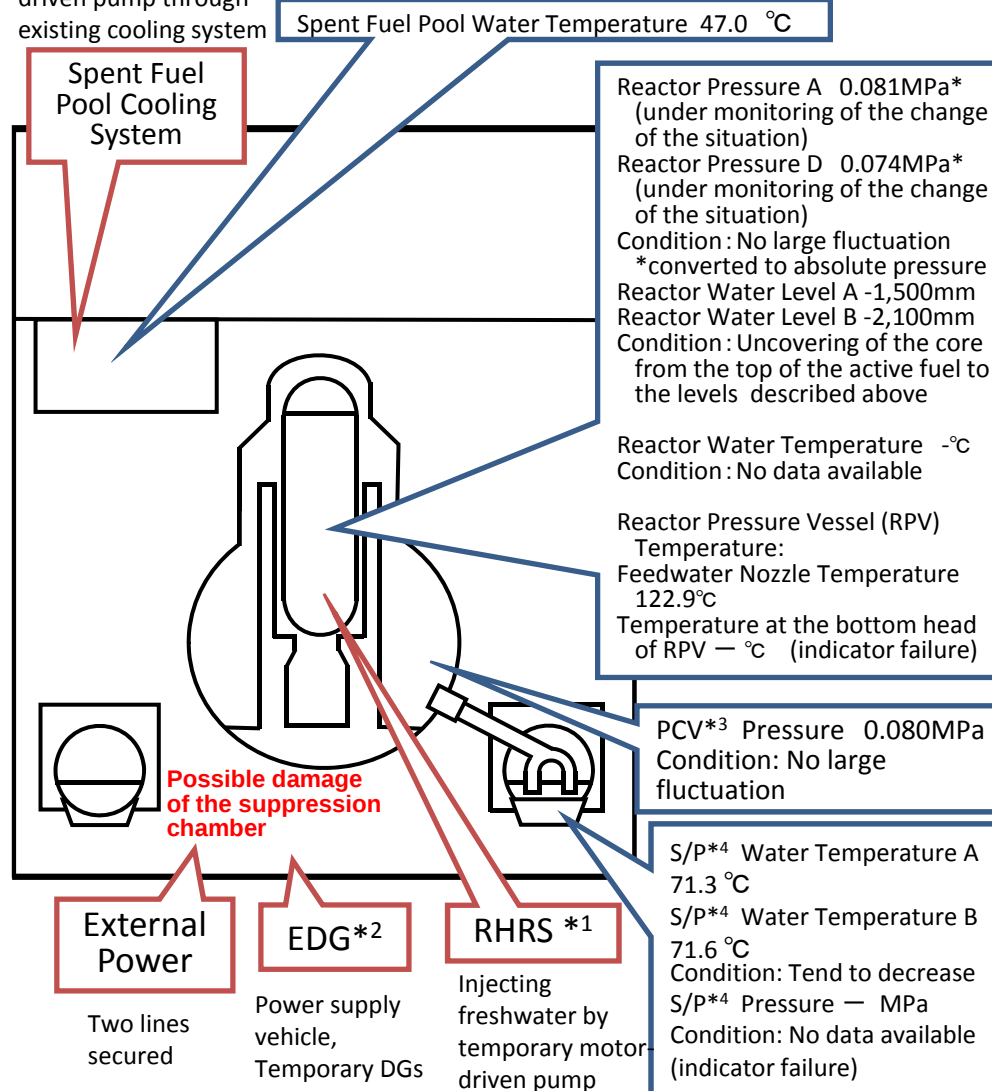
(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

Conditions of Fukushima Dai-ichi Nuclear Power Station **Unit 2**

(As of 2:00 April 25th, 2011)

Spraying freshwater
by temporary motor-
driven pump through
existing cooling system

Major Events after the Earthquake 1/2



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

Current Conditions: Fresh water is being injected to the Spent Fuel Pool and the Reactor Core

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

March 11th 14:46 Under operation, Automatic shutdown by the earthquake
 March 11th 15:42 Report based on the Article 10 (Total loss of A/C power)
 March 11th 16:36 Occurrence of the Article 15 event (Inability of water injection of the Emergency Core Cooling System)
 March 13th 11:00 Started to vent.
 March 14th 13:25 Occurrence of the Article 15 event (Loss of reactor cooling functions)
 March 14th 16:34 Started to inject seawater to the Reactor Core.
 March 14th 22:50 Occurrence of the Article 15 event (Unusual rise of the pressure in PCV)
 March 15th 00:02 Started to vent.
 March 15th 06:10 Sound of explosion
 March 15th around 06:20 Possible damage of the suppression chamber
 March 20th 15:05~17:20 Approximately 40 ton seawater injection to the Spent Fuel Pool (SFP) via the Fuel Pool Cooling Line (FPC)
 March 20th 15:46 Power Center received electricity.
 March 21st 18:22 White smoke generated. The smoke died down and almost invisible at 07:11 March 22nd.
 March 22nd 16:07 Injection of around 18 tons of seawater to SFP
 March 25th 10:30~12:19 Sea water injection to SFP via FPC
 March 26th 10:10 Started to inject fresh water to the Reactor Core.
 March 26th 16:46 Lighting in the Central Control Room was recovered.
 March 27th 18:31 Switched to the water injection to the core using the temporary motor-driven pump.
 March 29th 16:30~18:25 Switched to the temporary motor-driven pump injecting fresh water to SFP.
 March 29th 16:45~1st 11:50 Transferred the water from the Condensate Storage Tank (CST) to the Surge Tank of Suppression Pool Water (SPT)
 March 30th 9:25~23:50 Confirmed malfunction of the temporary motor-driven pump injecting fresh water to SFP(9:45). Switched to the injection using the fire pump Truck, but suspended as cracks were confirmed in the hose. (12:47, 13:10) Resumed injection of fresh water(19:05)
 April 1st 14:56~17:05 Freshwater injection to SFP via FPC using the temporary motor-driven pump.
 April 2nd around 9:30 The water, of which the dose rate was at the level of more than 1,000mSv/h, was confirmed to be collected in the pit located near the Intake Channel of Unit 2. The outflow from the lateral surface of the pit into the sea was also confirmed.
 April 2nd 17:10 Started to transfer the water from the Condenser to the CST.
 April 3rd 12:12 The power supply to the temporary motor-driven pump was switched from the temporary power supply to the external power supply.
 April 3rd 13:47~14:30 20 bags of sawdust, 80 bags of high polymer absorbent and 3 bags of cutting-processed newspaper were put into the Pit for the Conduit.
 April 4th 7:08~7:11 Approximately 13kg of tracer (bath agent) was put in from the Pit for the Duct for Seawater Pipe.
 April 4th 11:05~13:37 Freshwater injection to SFP via FPC using the temporary motor-driven pump.
 April 5th 14:15 Tracer is confirmed to outflow through the permeable layer around the pit into the sea. 15:07 Started to inject coagulant.
 April 6th around 5:38 The water outflow from the lateral surface of the pit was confirmed to stopped.
 April 7th 13:29~14:34 Freshwater injection to SFP via FPC using the temporary motor-driven pump.
 April 9th 13:10 Completed transferring the water from the Condenser to CST.
 April 10th 10:37~12:38 Freshwater injection to SFP via FPC using the temporary motor-driven pump.
 April 11th around 17:16 Loss of external power supply due to an earthquake occurred (at Hamadori in Fukushima Prefecture). Water injection to the Reactor Core was suspended.
 April 11th 17:56 External power supply was recovered.
 April 11th 18:04 Resumed injecting water to the Reactor Core.

Major Events after the Earthquake 2/2

April 12th 19:35 ~ April 13th 17:04 Transfer from the trench of the turbine building to the Condenser.

April 13th 11:00 Suspended the transfer for checking leaks, etc.

April 13th 13:15 ~ 14:55 Freshwater injection to SFP via FPC using the temporary motor-driven pump.

April 16th 10:13 ~ 11:54 Freshwater injection to SFP via FPC using the temporary motor-driven pump. (The temporary motor-driven pump stopped at 11:39 due to an earthquake that occurred at around 11:19. SFP was confirmed to be filled to capacity through observing a rise of the water level in the Skimmer Tank.)

April 16th around 11:19 An earthquake occurred (in the southern part of Ibaraki Prefecture).

April 18th 13:42 ~ Confirmed the situation in the reactor building using an unmanned robot.

April 18th 12:13 ~ 12:37 Stopped the water injection into the reactor core to replace the current hose with a new one.

April 18th 09:30 ~ 17:40 Injected coagulant (soluble glass) into the power cable trench.

April 19th 08:00 ~ 15:30 Injected coagulant (soluble glass) into the power cable trench.

April 19th 10:08 ~ Started to transfer the stagnant water with high-level radioactivity from the trench of the turbine building to the buildings of radioactive waste treatment facilities.

April 19th 10:23 Completed the work of strengthening connection of the power supplies between Units 1-2 and Units 3-4.

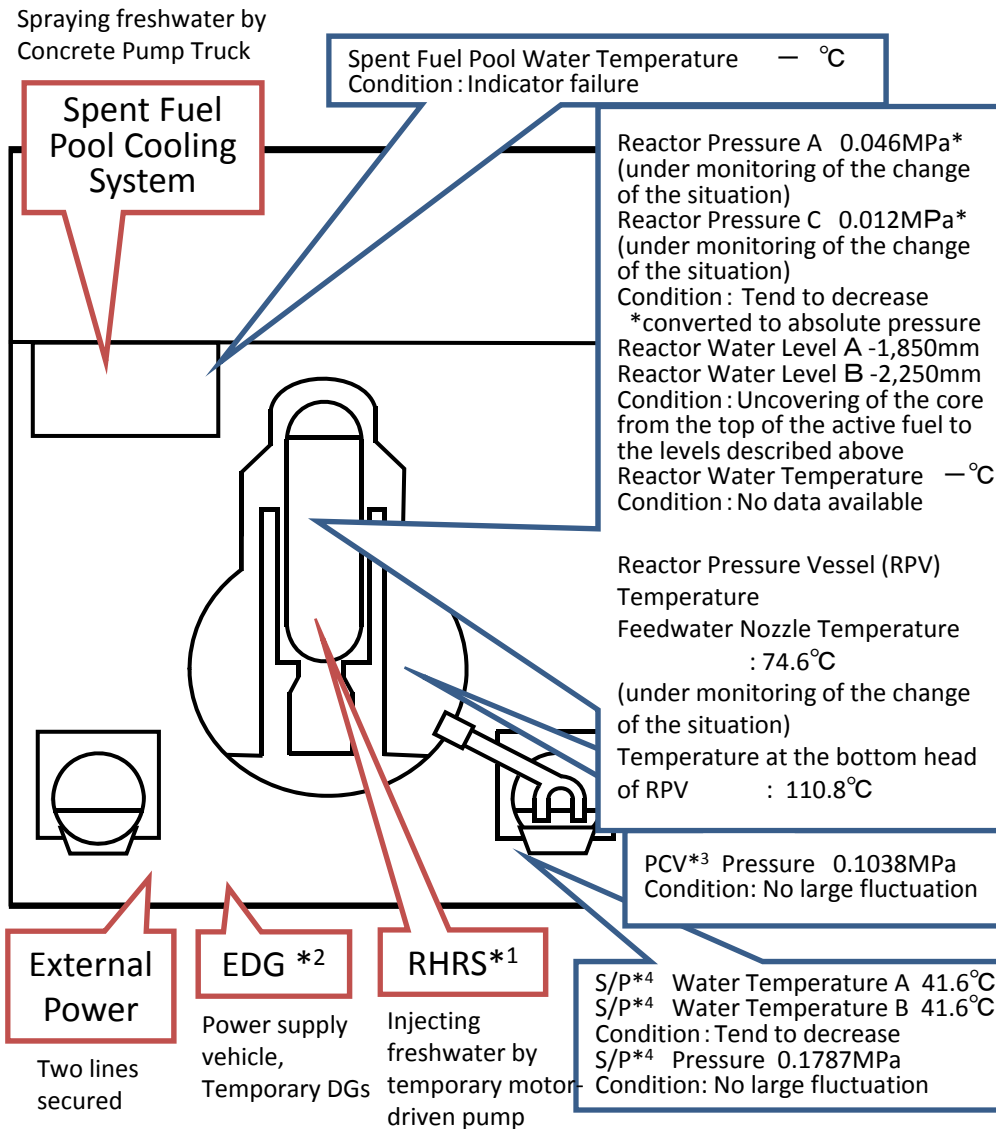
April 19th 16:08 ~ 17:28 Injected freshwater to SFP via FPC using the temporary motor-driven pump.

April 22nd 15:55 ~ 17:40 Injected freshwater to SFP via FPC using the temporary motor-driven pump.

Conditions of Fukushima Dai-ichi Nuclear Power Station **Unit 3**

(As of 2:00 April 25th, 2011)

Major Events after the Earthquake 1/2



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

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

Current Conditions : Fresh water is being injected to the Spent Fuel Pool and the Reactor Core

March 11th 14:46 Under operation, Automatic shutdown by the earthquake
 March 11th 15:42 Report based on the Article 10 (Total loss of A/C power)
 March 13th 05:10 Occurrence of the Article 15 event (Inability of water injection of the Emergency Core Cooling System)
 March 13th 08:41 Started to vent.
 March 13th 13:12 Started to inject seawater and borated water to the Reactor Core.
 March 14th 05:20 Started to vent.
 March 14th 07:44 Occurrence of the Article 15 event (Unusual rise of the pressure in PCV)
 March 14th 11:01 Sound of explosion
 March 16th around 08:30 White smoke generated.
 March 17th 09:48 ~ 10:01 Water discharge by the helicopters of Self-Defense Force
 March 17th 19:05 ~ 19:15 Water spray from the ground by High pressure water-cannon trucks of Police
 March 17th 19:35 ~ 20:09 Water spray from the ground by fire engines of Self-Defense Force
 March 18th before 14:00 ~ 14:38 Water spray from the ground by 6 fire engines of Self-Defense Force
 March 18th ~ 14:45 Water spray from the ground by a fire engine of the US Military
 March 19th 00:30 ~ 01:10 Water spray by Hyper Rescue Unit of Tokyo Fire Department
 March 19th 14:10 ~ 20th 03:40 Water spray by Hyper Rescue Unit of Tokyo Fire Department
 March 20th 11:00 Pressure of PCV rose(320kPa).Afterward fell.
 March 20th 21:36 ~ 21st 03:58 Water spray by Hyper Rescue Unit of Tokyo Fire Department
 March 21st around 15:55 Grayish smoke generated and was confirmed to be died down at 17:55.
 March 22nd 15:10 ~ 16:00 Water spray by Hyper Rescue Unit of Tokyo Fire Department and Osaka City Fire Bureau.
 March 22nd 22:46 Lighting in the Central Control Room was recovered.
 March 23rd 11:03 ~ 13:20 Injection of about 35 ton of sea water to the Spent Fuel Pool (SFP) via the Fuel Pool Cooling Line (FPC)
 March 23rd around 16:20 Black smoke generated and was confirmed to died down at around 23:30 and 24th 04:50.
 March 24th 05:35 ~ 16:05 Injection of around 120 ton of sea water to SFP via FPC
 March 25th 13:28 ~ 16:00 Water spray by Kawasaki City Fire Bureau supported by Tokyo Fire Department
 March 25th 18:02 Started fresh water injection to the core.
 March 27th 12:34 ~ 14:36 Water spray by Concrete Pump Truck
 March 28th 17:40 ~ 31st around 8:40 Transferring the water from the Condensate Storage Tank (CST) to the Surge Tank of Suppression Pool Water (SPT)
 March 28th 20:30 Switched to the water injection to the core using a temporary motor-driven pump.
 April 3rd 12:18 The power supply to the temporary motor-driven pump was switched from the temporary power supply to the external power supply.
 April 11th around 17:16 Loss of external power supply of Unit 1 and 2 due to an earthquake occurred (at Hamadori in Fukushima Prefecture) and water injection to the Reactor Core was suspended.
 April 11th 18:04 External power supply of Units 1 and 2 recovered (April 11th 17:56). Resumed injecting water to the Reactor Core.
 April 17th 11:30 ~ 14:00 Confirmed the situation in the reactor building using unmanned robot.
 April 18th 12:38 ~ 13:05 Stopped the water injection into the reactor core to replace the current hose with a new one
 April 19th 10:23 Completed the work of strengthening connection of the power supplies between Units 1-2 and Units 3-4.
 April 22nd 13:40 ~ 14:00 Tentatively Injected freshwater to SFP via the Fuel Pool Coolant Purification Line.

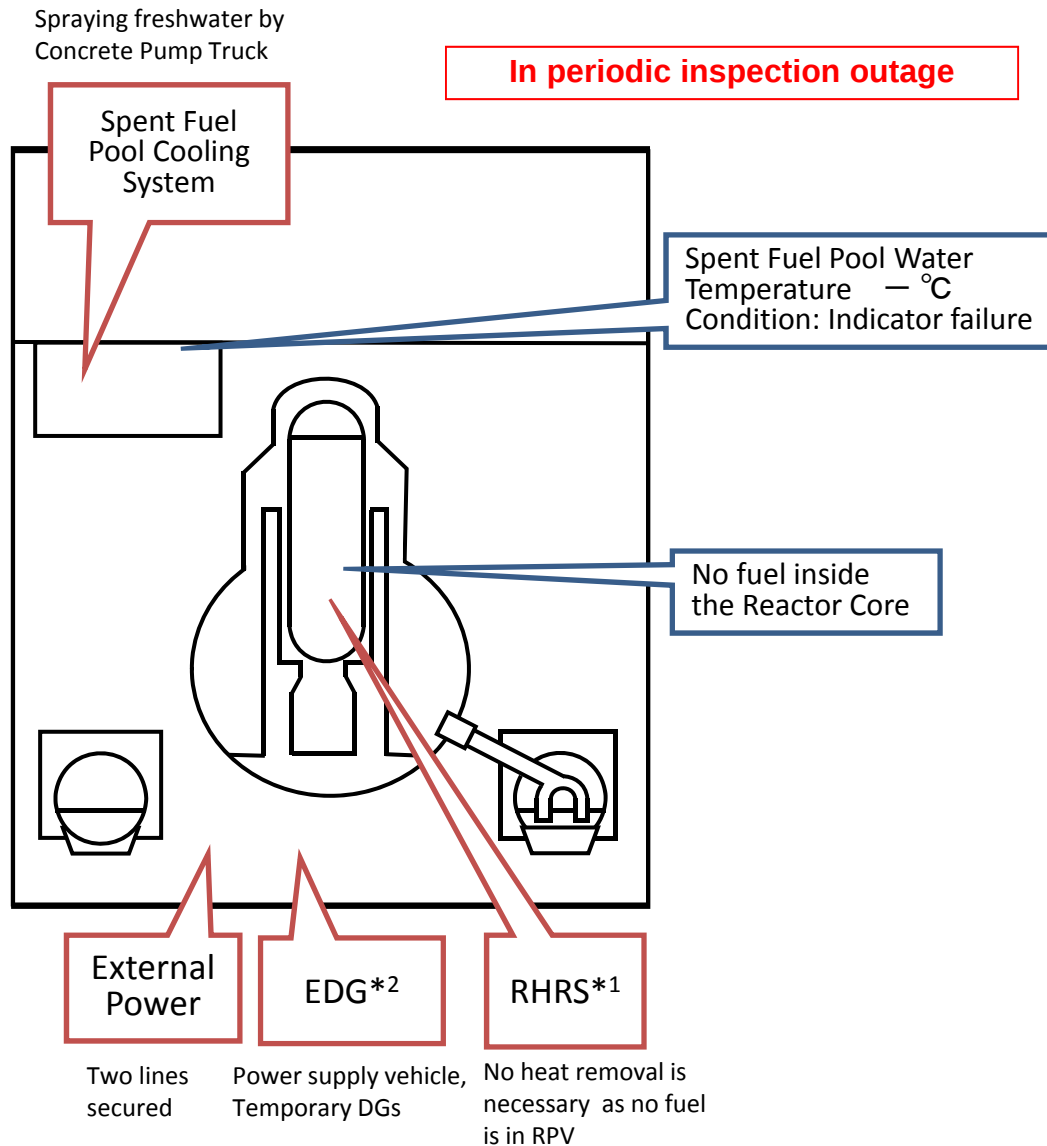
Major Events after the Earthquake 2/2

<Water spray by Concrete Pump Truck (Fresh water)>

March 29th 14:17~18:18, March 31st 16:30~19:33, April 2nd 09:52~12:54, April 4th 17:03~19:19, April 7th 06:53 ~ 08:53, April 8th 17:06~20:00, April 10th 17:15~19:15, April 12th 16:26~17:16, April 14th 15:56~16:32, April 18th 14:17 ~15:02, April 22nd 14:19~15:40

Conditions of Fukushima Dai-ichi Nuclear Power Station **Unit 4**

(As of 2:00 April 25th, 2011)



Major Events after the Earthquake

In periodic inspection outage when the earthquake occurred

March 14th 04:08 Water temperature in the Spent Fuel Pool (SFP), 84°C

March 15th 06:14 Confirmed the partial damage of wall in the 4th floor.

March 15th 09:38 Fire occurred in the 3rd floor. (12:25 extinguished)

March 16th 05:45 Fire occurred. TEPCO couldn't confirm any fire on the ground. (06:15)

March 20th 08:21~09:40 Water spray over SFP by Self-Defense Force

March 20th around 18:30~19:46 Water spray over SFP by Self-Defense Force

March 21st 06:37~08:41 Water spray over SFP by Self-Defense Force

March 21st around 15:00 Work for laying cable to Power Center was completed.

March 22nd 10:35 Power Center received electricity.

<Water spray by Concrete Pump Truck (Seawater)>

March 22nd 17:17~20:32, March 23rd 10:00~13:02, March 24th 14:36~17:30, March 25th 19:05~22:07, March 27th 16:55~19:25

March 25th 06:05~10:20 Sea water injection to SFP via the Fuel Pool Cooling Line (FPC)

March 29th 11:50 Lighting in the Central Control Room was recovered.

April 11th around 17:16 An earthquake occurred (at Hamadori in Fukushima Prefecture).

April 12th 12:00~13:04 Sampled the water in SFP.

April 19th 10:23 Completed the work of strengthening connection of the power supplies between Units 1-2 and Units 3-4.

April 22nd Measured the water level of SFP by a gauge hung on Concrete Pump Truck (62m class).

< Water spray by Concrete Pump Truck (Fresh water)>

March 30th 14:04~18:33, April 1st 08:28~14:14, April 3rd 17:14~22:16, April 5th 17:35~18:22, April 7th 18:23~19:40, April 9th 17:07~19:24, April 13th 0:30~6:57, April 15th 14:30~18:29, April 17th 17:39~21:22, April 19th 10:17~11:35, April 20th 17:08~20:31, April 21st 17:14~21:20, April 22nd 17:52~23:53, April 23rd 12:30~16:44, April 24th 12:25~17:07

**Current Conditions: No fuel is in RPV*³.
Fresh water is being injected to the Spent Fuel Pool.**

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

*1 Residual Heat Removal System

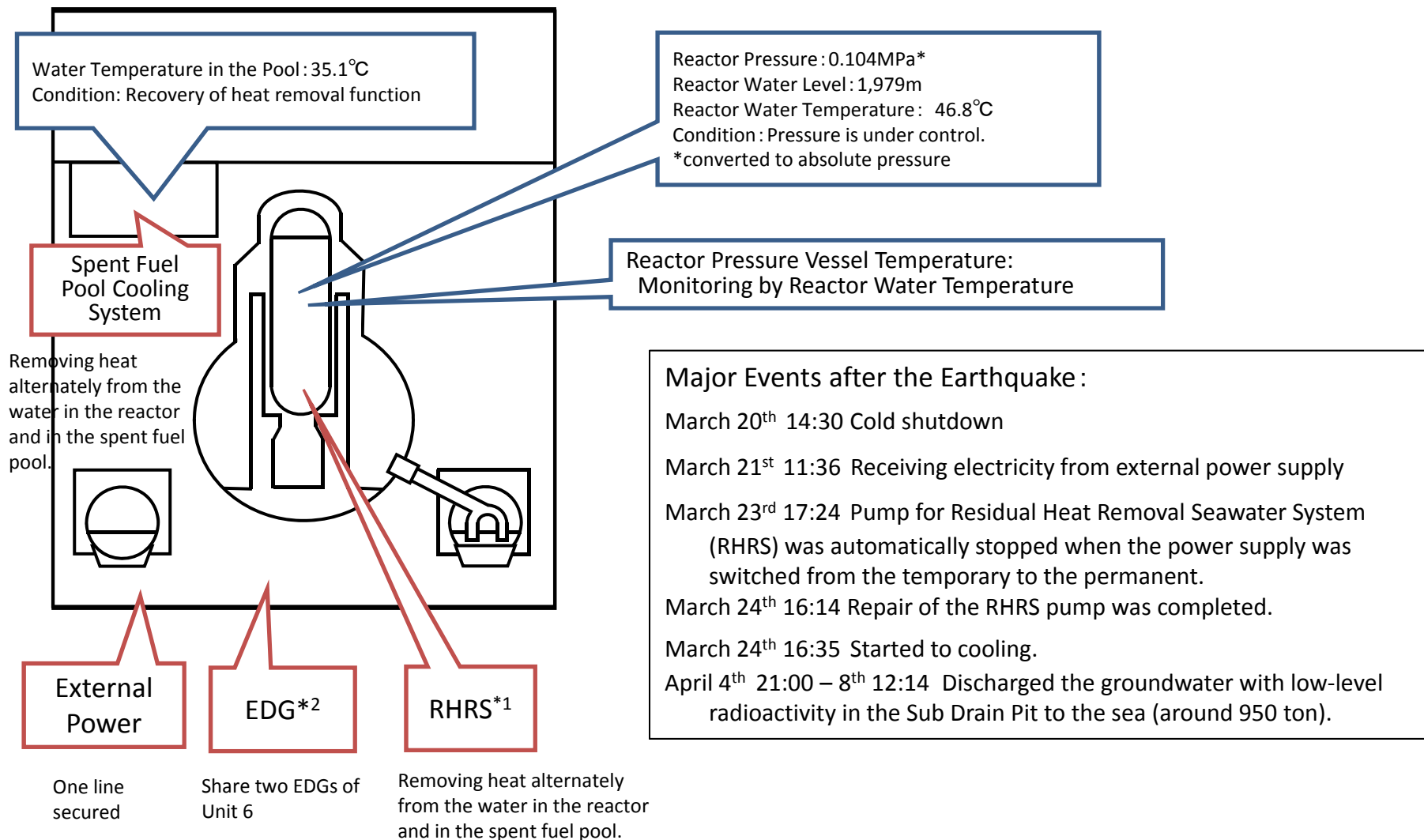
*2 Emergency Diesel Generator

*3 Reactor Pressure Vessel

Conditions of Fukushima Dai-ichi Nuclear Power Station **Unit 5**

(As of 2:00 April 25th, 2011)

In periodic inspection outage



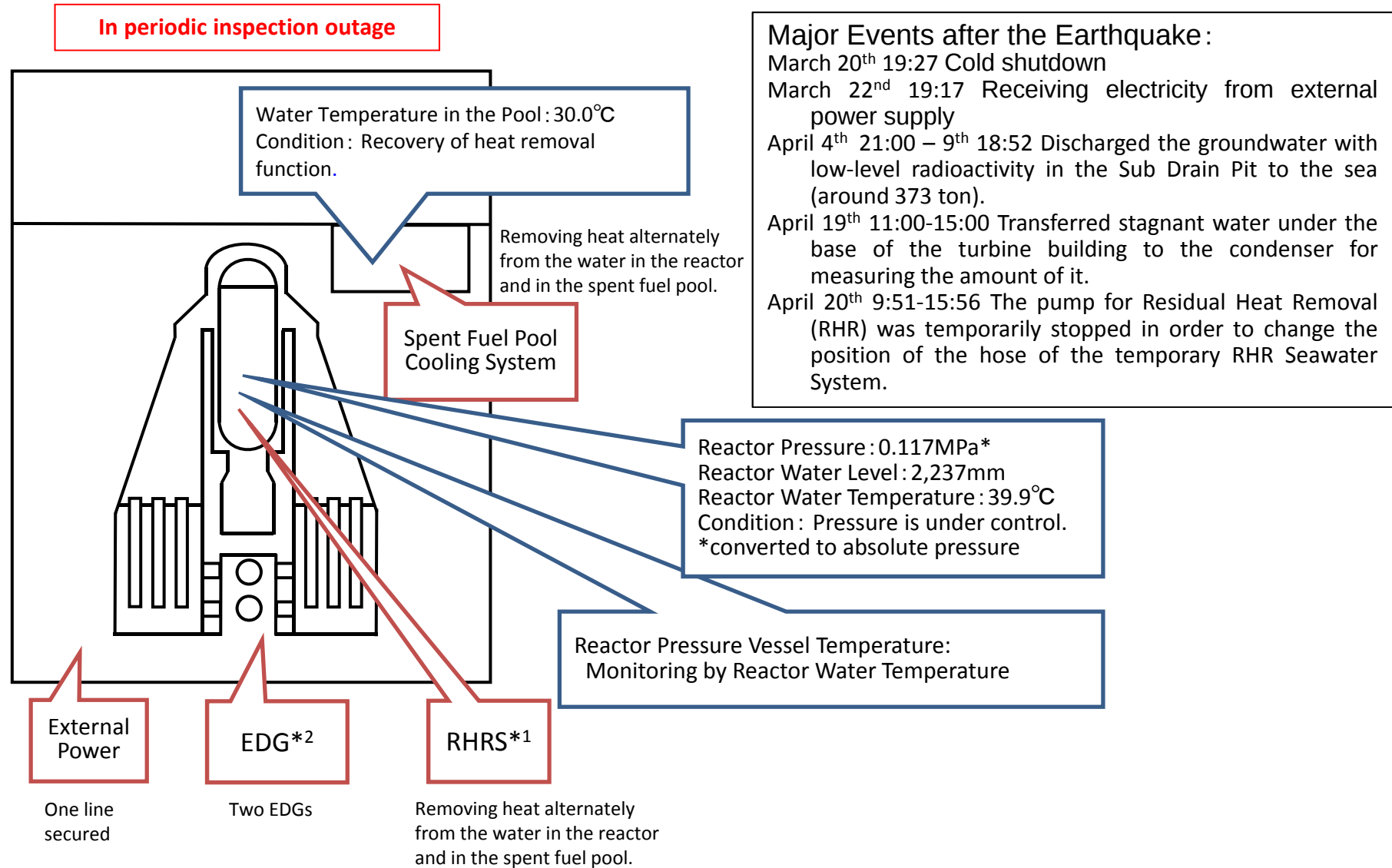
*1 Residual Heat Removal System

*2 Emergency Diesel Generator

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

Conditions of Fukushima Dai-ichi Nuclear Power Station **Unit 6**

(As of 2:00 April 25th, 2011)



*1 Residual Heat Removal System

*2 Emergency Diesel Generator

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