Extract



April 1, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 67th Release) (As of 15:30 April 1st, 2011)

Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa NPS, Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

Major updates are as follows.

- 1. Nuclear Power Stations (NPSs)
- Fukushima Dai-ichi NPS
 - -In order to prepare to transfer the stagnant water on the basement floor of turbine building of Unit 2 to the Condenser, the water in the Condensate Storage Tank was transferred to the Surge Tank of Suppression Pool Water. (16:45 March 29th till 11:50 April 1st)
 - The injection of fresh water to the Spent Fuel Pool of Unit 2 via the Spent Fuel Pool Cooling Line was started. (14:56 April 1st)
 - Spray of around 180t of fresh water for Unit 4 using Concrete Pump Truck (50t/h) was carried out. (From 08:28 till 14:14 April 1st)
 - The transfer of fresh water from the barge to the Filtrate Tank was started. (15:58 April 1st) Thereafter it was suspended due to the malfunction of the hose.
- < Possibility on radiation exposure>
- 1. Exposure of residents

In Fukushima Prefecture, up until March 30th, the screening was done to 110,340 people. Among them, 102 people were at the level above the 100,000cpm, but when measured these people again without clothes, etc., the counts decreased to 100,000cpm and below, and there was no case which affects health.

News Release



2. Exposure of workers

- -At around 11:35 April 1st, a worker fell into the sea when he wet on board the barge of the US Armed forces in order to adjust the hose. He was rescued immediately by other workers around without any injury, etc. However, as the surface contamination was noticed, he was decontaminated by having a shower. As a result of nasal smear*, the internal radionuclide contamination was not confirmed.
- *) nasal smear: to estimate the existence of internal radioactive contaminant taken in through sampling the radioactive material in nostril

<Directives regarding foods and drinks>

- The scope of request for restriction of drinking for tap-water was updated. (As of 09:00 April 1st)

For more information:

NISA English Home Page

http://www.nisa.meti.go.jp/english/index.html

Extract



April 2, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 68th Release) (As of <u>08:30 April 2nd</u>, 2011)

Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa NPS, Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

Major updates are as follows.

- 1. Nuclear Power Stations (NPSs)
- Fukushima Dai-ichi NPS
 - In order to prepare to transfer the stagnant water on the basement floor of the turbine building of Unit 2 to the Condenser, the water in the Condensate Storage Tank was transferred to the Surge Tank of Suppression Pool Water. (From 16:45 March 29th till 11:50 April 1st)
 - Injection of around 70t of fresh water to the Spent Fuel Pool of Unit 2 via the Spent Fuel Cooling Line using the temporary pump was carried out. (From 14:56 till 17:05 April 1st)
 - Spray of around 180t of fresh water for Unit 4 using Concrete Pump Truck (50t/h) was carried out. (From 08:28 till 14:14 April 1st)
 - The transfer of fresh water from the barge to the Filtrate Tank was started. (15:58 April 1st) Thereafter it was suspended by the malfunction of the hose (disconnection).
 - The permanent monitoring posts (No.1 to 8) installed near the Site Boundary were recovered. (March 31st) They are measuring once a day.

For more information:

NISA English Home Page

http://www.nisa.meti.go.jp/english/index.html

Fukushima Di-ichi Nuclear Power Station Major Parameters of the Plant (As of 6:00, April 2nd)

Fukushima Di-ichi Nuclear Power Station Major Parameters of the Plant (As of 6:00, April 2nd)									
Unit No.	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6			
Situation of water injection	Injecting fresh water via the Water Supply Line. Flow rate of injected water: 117 l/min (As of 16:18, April 1st) temporary measuring instrument	Injecting fresh water via the Fire Extinguish Line. Flow rate of injected water :150 ϱ /min (As of 14:00, March 30th) temporary measuring instrument	Injecting fresh water via the Fire Extinguish Line. Flow rate of injected water: 116 @/min (As of 14:39, March 29th) temporary measuring instrument	Under shutdown	Under shutdown	Under shutdown			
Reactor water level	Fuel range A: -1,600mm Fuel range B: -1,600mm (As of 4:00, April 2nd)	Fuel range A : -1,500mm (As of 4:00, April 2nd)	Fuel range A:-1,850mm Fuel range B:-2,250mm (As of 1:30, April 2nd)	#2	Shutdown range measurement 1,799mm (As of 6:00, April 2nd)	Shutdown range measurement 1,534mm (As of 6:00, April 2nd)			
Reactor pressure	0.288MPa g(A) 0.520MPa g(B) (As of 4:00, April 2nd)	-0.011MPa g (A) -0.014MPa g (B) (As of 4:00,April 2nd)	0.025MPa g (A) -0.086MPa g (C) (As of 1:30, April 2nd)	#2	0.007MPa g (As of 6:00, April 2nd)	April 2nd)			
Reactor water temperature	(Impossible collection due to low	system flow rate)		#2	35.5°C (As of 6:00, April 2nd)	21.6℃ (As of 6:00, April 2nd)			
Reactor Pressure Vessel (RPV) temperature	Feedwater nozzle temperature: 261.5°C Temperature at the bottom head of RPV: 118.0°C (As of 4:00, April 2nd)	Feedwater nozzle temperature: 155.0°C Temperature at the bottom head of RPV: #1 (As of 4:00, April 2nd)	Feedwater nozzle temperature: 90.8°C (under survey) Temperature at the bottom head of RPV: 119.4°C (As of 1:30, April 2nd)	Unit 4 No heating element (fuel) inside the reactor Unit 5,6 Monitoring by the reactor water temperature					
D/W*1 Pressure, S/C*2 Pressure	D/W: 0.160MPa abs S/C: 0.160MPa abs (As of 4:00, April 2nd)	D/W: 0.110MPa abs S/C:Down scale (under survey) (As of 4:00, April 2nd)	D/W: 0.1055MPa abs S/C: 0.1748MPa abs (As of 1:30, April 2nd)	#2 -					
CAMS*3	D/W: 4.55×10 ¹ Sv/h S/C: 1.65×10 ¹ Sv/h (As of 4:00, April 2nd)	D/W: 3.61 × 10 ¹ Sv/h S/C: 9.81 × 10 ⁻¹ Sv/h (As of 4:00,April 2nd)	D/W: 2.40×10 ¹ Sv/h S/C: 9.55×10 ⁻¹ Sv/h (As of 1:30, April 2nd)	#2					
D/W*1 design operating pressure	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	#2					
D/W*1 maximum operating pressure	0.427MPa g(0.528MPa abs)	0.427MPa g(0.528MPa abs)	0.427MPa g(0.528MPa abs)			I or			
Spent Fuel Pool water	#1	72.0℃ (As of 4:00, April 2nd)	#1	#1	34.1°C (As of 6:00, April 2nd)	27.0°C (As of 6:00, April 2nd)			
FPC skimmer level	4,500mm (As of 4:00, April 2nd)	#1 (As of 4:00, April 2nd)	#1	5100mm (As of 1:30, April 2nd)	#2				
Power supply	Receiving external power supply (P/C*4 2C)		Receiving external power supply (P/C4D)		Receiving external power supply				

Other information	Unit3: Collecting the data of RPV temperature and continuing survey for transitional situation Unit2: Confirmed the indicated value of S/C Pressure but continuing to survey the transition of condition Unit2: Indication failure of FPC skimmer level by a fall in battery pressure	32 C (AS OI	Unit5:Nonthe rmal mode (From 22:12 April 1st)	Unit6:SHC*5 mode (From 11:39 April 1st)
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Pressure conversion

Gauge pressure (MPa g) = Absolute pressure (MPa abs) – Atmospheric pressure (Normal atmospheric pressure 0.1013MPa) Absolute pressure (MPa abs) = Gauge pressure (MPa g) + Atmospheric pressure (Normal atmospheric pressure 0.1013MPa)

: Dry Well *1 D/W

: Suppression Chamber *2 S/C

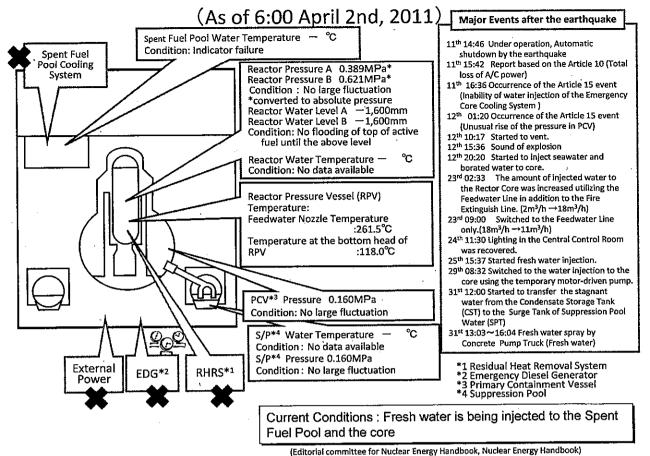
CAMS: Containment Atmospheric Monitoring System

P/C : Power Center SHC : Shutdown Cooling

: Measuring instrument malfunction: Except from data collection #1

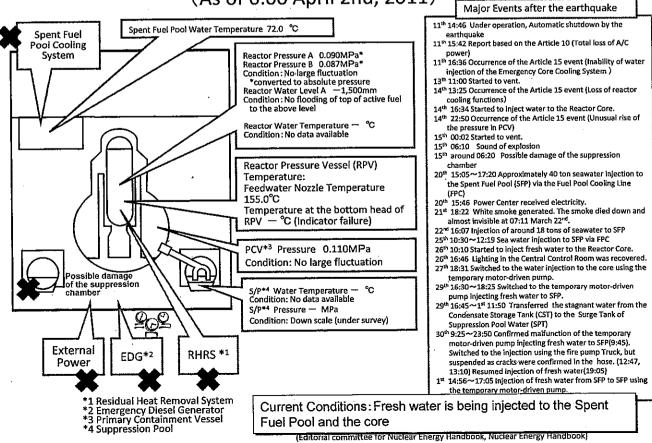
#2

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 1

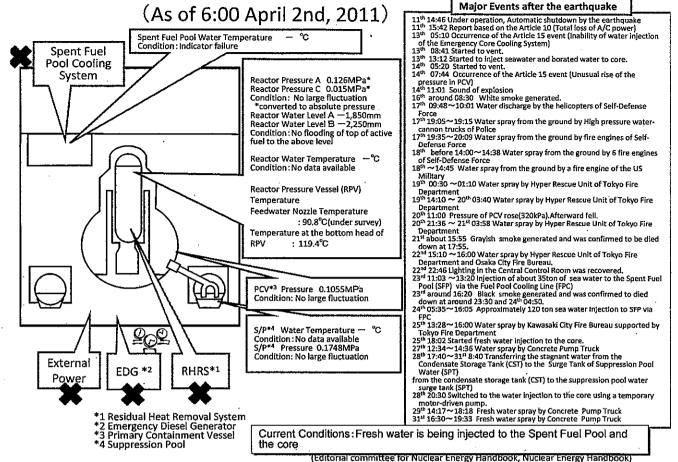


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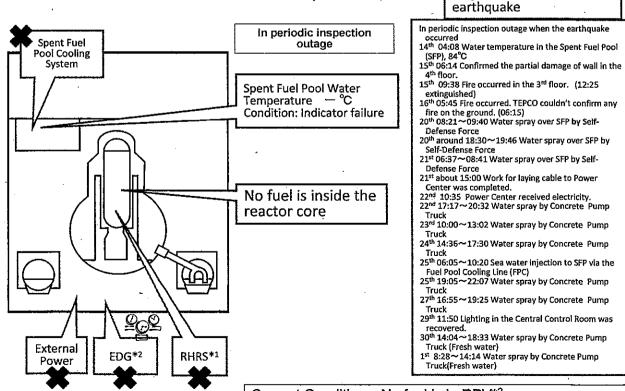




Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 3



Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 4 (As of 6:00 April 2nd, 2011) Major events after the

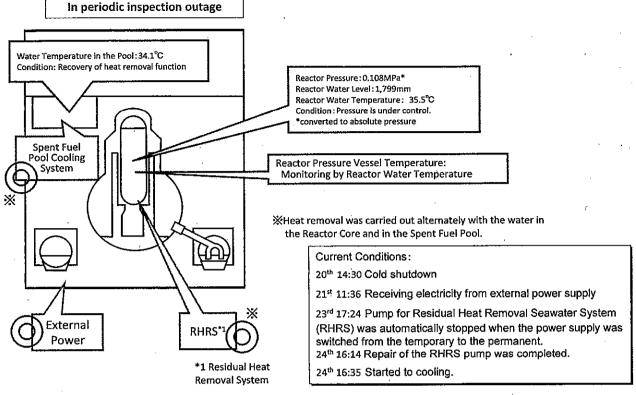


- *1 Residual Heat Removal System
- *2 Emergency Diesel Generator
- *3 Reactor Pressure Vessel

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

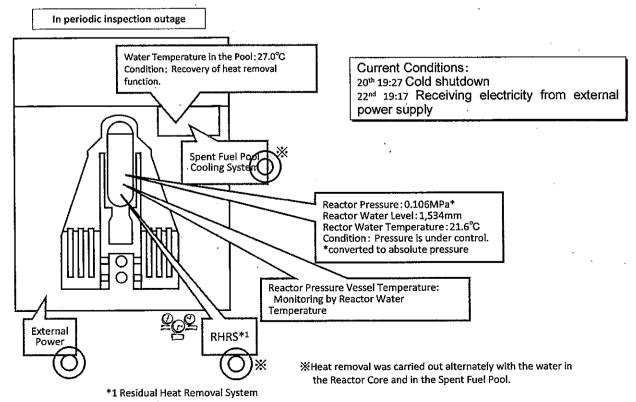
(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 5 (As of 6:00 April 2nd, 2011)



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

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 6 (As of 6:00 April 2nd, 2011)



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