

Extract



April 2, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 69th Release) (As of 16:00 April 2nd, 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
 - The water, of which the dose rate was at the level of more than 1,000 mSv/h, was confirmed to be collected in the pit (a vertical portion of an underground structure) for laying power cables, located near the Intake Channel of Units 2. In addition, the outflow from the crack with a length of around 20 cm in the concrete portion of the lateral surface of the pit into the sea was confirmed. (Around 09:30 April 2nd)
 - Water spray (fresh water) for Unit 3 using Concrete Pump Truck was carried out. (From 09:52 till 12:54 April 2nd)
 - The second barge of the US armed forces carrying fresh water for cooling reactors, etc. landed in the exclusive port of the power station, being towed by the ships of Maritime Self-Defense Force. (09:10 April 2nd)
 - The transfer of fresh water from the barge (the first one) to the Filtrate Tank was resumed. (10:20 April 2nd)

2. Action taken by NISA

- Regarding the outflow of the liquid including radioactive materials from the area around the Intake Channel of Unit 2 of the Fukushima Dai-ichi NPS, NISA directed TEPCO orally to carry out nuclide analysis of the liquid sampled, to confirm whether there are other outflows from the

News Release



same parts of the facilities as the one, from which the outflow was confirmed around the Unit 2, and to strengthen monitoring through sampling water at more points around the facilities concerned.

< Possibility on radiation exposure>

Exposure of workers

- At around 11:35 April 1st, a worker fell into the sea when he went 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 and external contamination. In order to make double sure, the existence of internal radionuclide contaminant is being confirmed by a whole-body counter.

For more information:

NISA English Home Page

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

Extract



April 3, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 70th Release) (As of <u>08:00 April 3rd</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
 - A test water spray over the Spent Fuel Pool of Unit 1 using Concrete Pump Truck was carried out in order to confirm the appropriate position for water spray. (From 17:16 till 17:19 April 2nd)
 - In order to prepare to transfer the stagnant water on the basement floor of the turbine building of Unit 2 to the Condenser, the transfer of the water in the Condenser to the Condensate Storage Tank was started. (17:10 April 2nd)
 - The cameras for monitoring the water levels in the vertical part of the trench outside of the turbine building of Unit 2 and on the basement floor of the turbine building of Unit 2 were installed. (April 2nd)

2. Others

- From 28 till 30 March, examinations of thyroid gland for 946 children aged from 0 to 15 years old were carried out at the Kawamata Town Community Center and the Iidate Village Office. The result was not at the level of having harmful influence.

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 14:00, April 2nd)

Fukushima Di-ichi Nuclear Power Station Major Parameters of the Plant (As of 14:00, 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	Injecting fresh water via the Fire	Injecting fresh water via the Fire							
	Water Supply Line.	Extinguish Line.	Extinguish Line.							
	Flow rate of injected water: 117	Flow rate of injected water :150	Flow rate of injected water: 116	Under	Under	Under				
	0/min	0/min	0/min	shutdown	shutdown	shutdown				
	(As of 16:18, April 1st)	(As of 14:00, March 30th)	(As of 14:39, March 29th)							
	temporary measuring instrument	temporary measuring instrument	temporary measuring instrument		·					
1	·			•	Shutdown	Shutdown				
Reactor water level	Fuel range A: -1,650mm		Fuel range A:-1,850mm		range	range				
	Fuel range B: -1,650mm	Fuel range A: -1,550mm	Fuel range B:-2,250mm	#2	measurement	measurement				
	(As of 12:00, April 2nd)	(As of 12:00, April 2nd)	(As of 12:10, April 2nd)	π2	1,700mm	2,082mm				
	(As of 12:00, April 2nd)		(As of 12.10, April 2nd)		(As of 14:00,	(As of 14:00,				
			·		April 2nd)	April 2nd)				
	0.290MPa g(A)	-0.007MPa g (A)	0.014MPa g (A)		0.007MPa g	0.005MPa g				
Reactor pressure	0.531MPa g(B)	-0.007MPa g (B)	-0.095MPa g (C)	#2	(As of 14:00,	(As of 14:00,				
reductor problems	(As of 12:00, April 2nd)	(As of 12:00, April 2nd)	(As of 12:10, April 2nd)		April 2nd)	April 2nd)				
	, , , , , , , , , , , , , , , , , , , ,				30.4℃	31.8℃				
Reactor water temperature	(Impossible collection due to low	system flow rate)		#2	(As of 14:00,	(As of 14:00,				
	(impossible conceded due to to	by 510111 210 11 1410)			April 2nd)	April 2nd)				
-	Feedwater nozzle temperature:	Feedwater nozzle temperature:	Feedwater nozzle temperature:		1					
	259.4°C	152.9℃	92.3°C (under survey)	Unit 4						
Reactor Pressure Vessel (RPV) temperature	Temperature at the bottom head	Temperature at the bottom head	Temperature at the bottom head	No heating element (fuel) inside the reactor						
	of RPV: 117.6°C	of RPV: #1	of RPV: 117.8°C	Unit 5,6 Monitoring by the reactor water temperature						
		(As of 12:00, April 2nd)	(As of 12:10, April 2nd)							
	(As of 12:00, April 2nd) D/W: 0.155MPa abs	D/W: 0.110MPa abs	D/W: 0.1050MPa abs							
D/W*1 Pressure, S/C*2			S/C: 0.1748MPa abs	#2						
Pressure	S/C: 0.155MPa abs	S/C:Down scale (under survey)		#2		•				
	(As of 12:00, April 2nd)	(As of 12:00, April 2nd)	(As of 12:10, April 2nd)		· • • • • • • • • • • • • • • • • • • •	····				
CAMS*3	D/W: 4.51×10 ¹ Sv/h	D/W: 3.57×10¹Sv/h	D/W: 2.32×10 ¹ Sv/h	l 1/2						
	S/C: 1.60×10 ¹ Sv/h	S/C: 9.66×10 ⁻¹ Sv/h	S/C: 9.35×10 ⁻¹ Sv/h	#2						
	(As of 12:00, April 2nd)	(As of 12:00,April 2nd)	(As of 12:10, April 2nd)		-					
D/W*1 design operating	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	0.384MPa g(0.485MPa abs)	#2		•				
pressure	0.504111 a g(0.405111 a abs)	0.50 111 4 5(0.105111 4 455)	0.50 1.11 a g(0.1051.11 a a05)	,						
D/W*1 maximum	0.427MPa g(0.528MPa abs)	0.427MPa g(0.528MPa abs)	0.427MPa g(0.528MPa abs)							
operating pressure	0.42/MFa g(0.326MFa abs)	0.427WIF a g(0.328WIF a abs)	0.427WH & g(0.526WH & abs)							
	÷	72.093			37.1℃	25.5℃				
Spent Fuel Pool water	#1	72.0°C	#1	#1	(As of 14:00,	(As of 14:00,				
Transfer and a day that are	-	(As of 12:00, April 2nd)	ŕ		April 2nd)	April 2nd)				
					<u> </u>					
	4,500mm	5,350mm		5,100mm						
FPC skimmer level		(As of 12:00, April 2nd)	#1	(As of 12:10,	#2					
	(As of 12:00, April 2nd)	(As of 12.00, April 200)		April 2nd)	į					
					Daggiring	tomal				
Power supply Receiving external power supply (P/C*4 2C)		Receiving external power supply (P/C4D)		Receiving external power						
Tower suppry				supply						

	*		Common	Unit5:	Unit6:
Other information	Unit3: Collecting the data of RPV temperature and continuing survey for transitional situation		SHC*5 mode	Supplemental	
	Unit2: Confirmed the indicated value of S/C Pressure but continuing to survey the transition of	32 ℃ (As of	(From 22:12	Fuel Pool	
	condition	7:30, April		Cooling	
		2nd)	· ·	mode (From	
				10:30 April	
			~	2nd)	

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)

*1 D/W : Dry Well

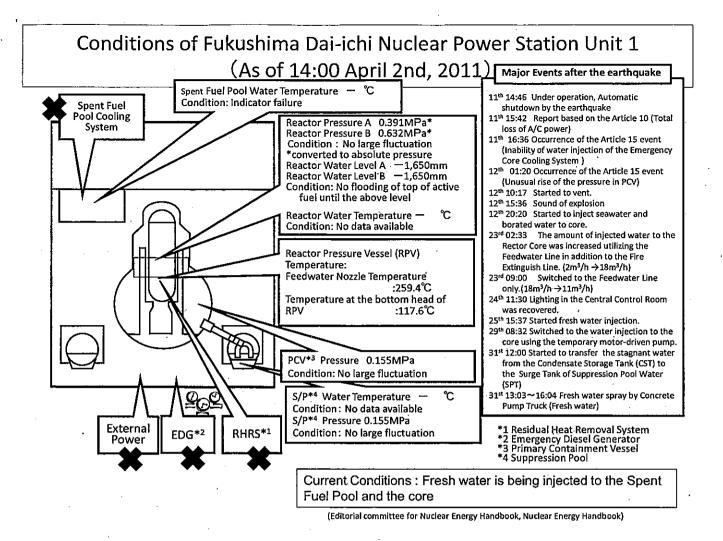
*2 S/C : Suppression Chamber

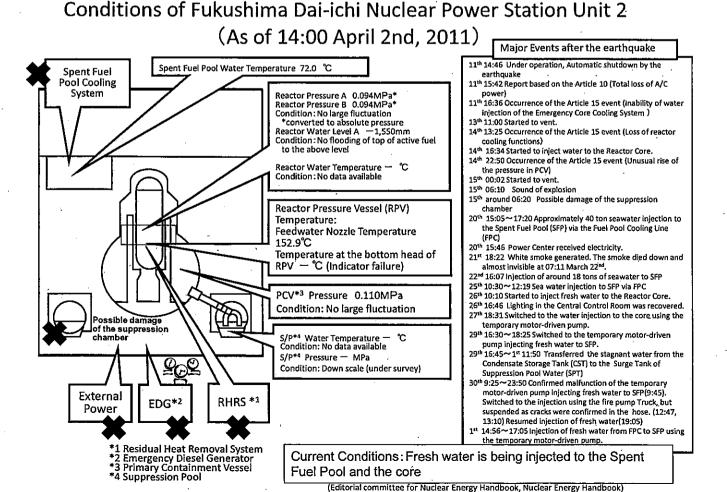
*3 CAMS : Containment Atmospheric Monitoring System

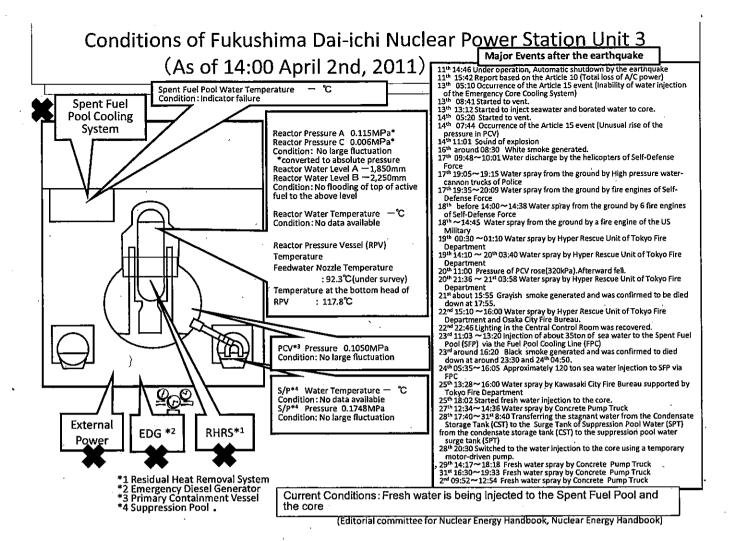
*4 P/C : Power Center *5 SHC : Shutdown Cooling

#1 : Measuring instrument malfunction

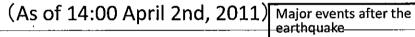
#2 : Except from data collection

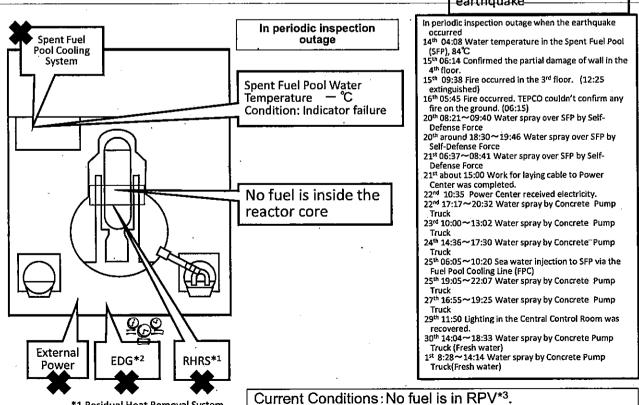






Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 4





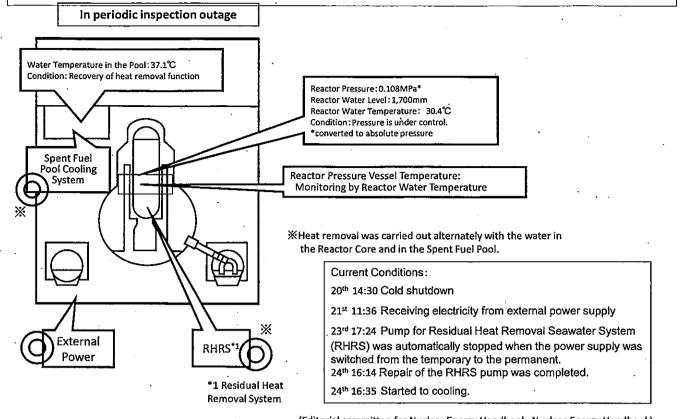
- *1 Residual Heat Removal System
- *2 Emergency Diesel Generator
- *3 Reactor Pressure Vessel

Current Conditions: No fuel is in RPV*3.

Fresh water is being injected to the Spent Fuel Pool.

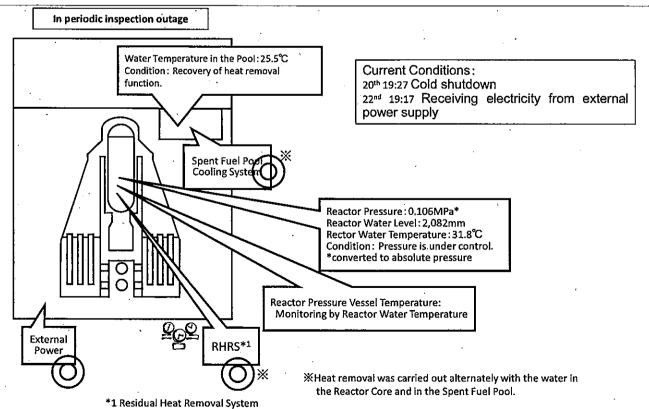
(Editorial committee for Nuclear Energy Handbook, Nuclear Energy Handbook)

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 5 (As of 14:00 April 2nd, 2011)



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

Conditions of Fukushima Dai-ichi Nuclear Power Station Unit 6 (As of 14:00 April 2nd, 2011)



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