Information on Status of Nuclear Power Plants in Fukushima



Japan Atomic Industrial Forum, Inc.

Policy on information and compilation

This JAIF-compiled information chart represents the situation, phenomena, and operations in which JAIF estimates and guesses the reactors and related facilities are, based on the latest data and information directly and indirectly made available by the relevant organizations when JAIF's updating works done. Consequently, JAIF may make necessary changes to descriptions in the chart, once (1) new developments have occurred in the status of reactors and facilities and (2) JAIF has judged so needed after reexamining the prior information and judgments.

JAIF will do its best to keep tracks on the information on the nuclear power plants quickly and accurately.

Status of nuclear power plants in Fukushima as of 20:00, April 7th (Estimated by JAIF)

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Evacuation Shall be evacuated for within 20km from NPS (issued at 18:25, Mar. 12th) 49 Shall stay indoors (issued at 11:00, Mar. 15th), Should consider leaving (issued at 11:30, Mar. 25th) for from 2 % NSC is suggesting the government revise the currrent radioactive standards for evacuation, according to which evacuation is only considered when radiation levels reach 50 mSv about one that evacuation advisory should be issued to prevent residents from exposed to a total of 20 mSv a year. INES (estimated by NISA) Level 5 Level 5 Level 5 Level 3 —	Radiation level: 0.67mSv/h at the south side of the office building, 43 \(\psi \text{ Ny/h} \) at the West gate, as of \(\frac{15:00}{15:00} \), Apr. 7th. 108 \(\psi \text{ Ny/h} \) at the Main gate, as of 10:00, Apr. 6th. Radiation dose higher than 1000 mSv was measured at the surface of water accumulated on the basement of Unit 2 turbine building and in the tunnel for laying piping outside the building on Mar. 27th. Plutonium was detected from the soil sampled at Fukushima Dai—ichi NPS site on Mar. 21st, 22nd, 25th and 28th. The amount is so small that the Pu is not harmful to human body. Radioactive materials exceeding the regulatory limit have been detected from seawater sample collected in the sea surrounding the Fukushima Dai—ichi NPS since Mar. 21st. On Apr. 5th, 7.5 million times the legal limit of radioactive iodine, I—131, was detected from the seawater, which had been sampled near the water intake of Unit 2 on Apr. 2nd. It was found on Apr. 2nd that there was highly radioactive (more than 1000mSv/hr) water in the concrete pit housing electrical cables and this water was leaking into the sea through cracks on the concrete wall. It was confirmed on Apr. 6th that the leakage of water stopped after injecting a hardening agent into holes drilled around the pit. Release of some 10,000 tons of low level radioactive wastewater into the sea began on Apr. 4th, in order to make room for the highly radioactive water mentioned above. Regarding the influence of the low level radioactive waste release, TEPCO evaluated that eating fish and seaweed caught near the plant every day for a year would add some 25% of the dose that the general pubic receive from the environment for a year. Monitoring for the surrounding sea area has been enhanced since Apr. 4th. Radioactive materials were detected from underground water sampled near the turbine buildings on Mar. 30th. In India (1) India (1) India (2) India (2) India (3) India (3) India (4)					
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Progress of the work to recover injection function Water injection to the reactor pressure vessel by temporally installed pumps were switched from seawater to freshwater at Unit 1, 2 and 3. High radiation circumstance hampering the work to restore originally installed pumps for injection. Discharging radioactive water in the basement of the buildings of Unit 1through 3 continue to transfer work is being made to secure a place the water to go. Lighting in the turbine buildings became partly available at Unit 1through 4. Function of containing radioactive material It is presumed that radioactive material inside the reactor vessel may leaked outside at Unit 1, 2 and Unit 3, based on radioactive material found outside. NISA announced that the reactor pressure lost air tightness because of low pressure inside the pressure vessel. NISA told that it is unlikely that these are cracks or holes in the reactor pressure vessels at the same occasion. TEPCO started to inject nitrogen gas into the Unit 1 containment vessel to reduce the possibility of hydrogen explosion on Apr. 6th. The same measure will be taken for Unit 2 and 3. Cooling the spent fuel pool Steam like substance rose intermittently from the reactor building at Unit 1, 2, 3 and 4 has been observed. Injecting and/or spraying water to the spent fuel pool has been conducted.	ore than 1000mSv/hring a hardening agent e. Regarding the influter from the environment for some products. Fradioactive iodine, the Mar. 12th) 20km to 30km from Neweek after any accidental controls.	nr) water in nt into holes fluence of the nt for a year the same				
Prevention of the proliferation of contaminated dust: Testing the spraying synthetic resin to contain contaminated dust began on Apr. 1st. [Source] *TEPCO's estimation based on the radiation level in the CV [Significance]	ore than 1000mSv/hring a hardening agent e. Regarding the influence from the environment for some products. Fradioactive iodine, the many solution in the environment for some products. Fradioactive iodine, the environment is solved in the environment in the environment in the environment is solved in the environment in t	the same NPS Sidents, such				

Government Nuclear Emergency Response Headquarters: News Release (-4/5 19:00), Press conference

NISA: News Release (-4/7 08:00). Press conference

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TEPCO: Tokyo Electric Power Company, Inc. NSC: Nuclear Safety Commission of Japan

Low

High

Severe (Need immediate action)

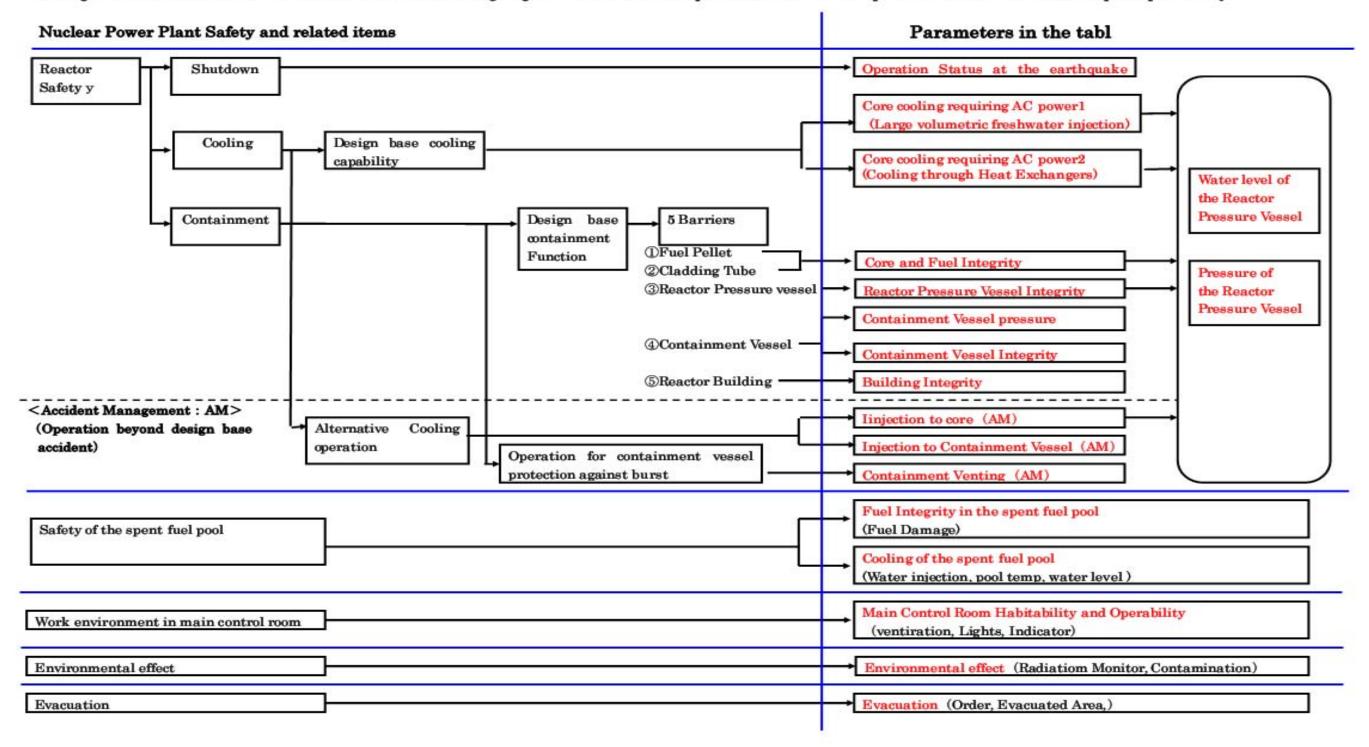
Power Station	Fukushima Dai-ni Nuclear Power Station						
Unit	1 2 3 4						
Electric / Thermal Power output (MW)	1100 / 3293						
Type of Reactor	BWR-5 BWR-5 BWR-5 BWR-5						
Operation Status at the earthquake occurred	In Service -> Automatic Shutdown						
Status	All the units are in cold shutdown.						
INES (estimated by NISA)	Level 3	Level 3	_	Level 3			
Remarks	cooling function and made the unit int Latest Monitor Indication: 3.1 μ Sv/h a Evacuation Area: 10km from NPS						
	Evacuation Area. Tokin from Nr 5			7			
Power Station	Evacuation Area. Tokin Holli Ni C	Onagawa Nuclear Power Station					
Power Station Unit	1	Onagawa Nuclear Power Station	3				
Unit	1		3				
	1	2	3				

Power Station	Onagawa Nuclear Power Station				
Unit	1	2	3		
Operation Status at the earthquake occurred	In Service → Automatic Shutdown				
Status	All the units are in cold shutdown.				
Remarks	Safe				

Power Station	Tokai Dai-ni	
Operation Status at the earthquake occurred	In Service → Automatic Shutdown	
Status	In cold shutdown.	
Remarks	Safe	

Parameters in the Table

JAIF picks up these parameters to evaluate safety condition of the nuclear plants during this accident from the view point of the principles of nuclear power plant safety, which are "Shutdown", "Cooling" and "Containment". Then we create the chart. The following diagram is to show the correspondence relation of these parameters in the table to nuclear power plant safety.



Accidents of Fukushima Dai-ichi and Fukushima-Dai-ni Nuclear Power Stations

(as of 13:30, April 7th)

1. Latest Major event and response

April 5th:

15:07 A hardening agent was injected into holes drilled around the pit of Unit 2 in a bid to stem the flow of highly radioactive water into the sea.

April 6th:

05:38 It was confirmed that the highly radioactive water flow mentioned above stopped.

April 7th:

01:31 Injection of Nitrogen gas started after opening all valves through the line.

2. Chronology of Nuclear Power Stations (1) Fukushima Dai-ichi NPS

(1) Fukushima Dai-ichi NPS	Unit 1	Unit 2	Unit 3	Unit 4	Unit-5 and 6
Major Incidents and Actions	11th 15:42 Report IAW Article 10* (Loss of power)	11th 15:42 Report IAW Article 10* (Loss of power)	11th 15:42 Report IAW Article 10* (Loss of power)	14th 04:08 Water temperature in Spent Fuel Storage Pool increased at 84°C	19th 05:00 Cooling SFP with RHR-pump started at Unit 5 19th 22:14 Cooling SFP with RHR-pump started at Unit 6
The Act on Special Measures Concerning Nuclear Emergency	11th 16:36 Event falling under Article 15 occurred (Incapability of water injection by core cooling function)	11th 16:36 Event falling under Article 15* occurred (Incapability of water injection by core cooling function)	12th 20:41 Start venting	15th 09:38 Fire occurred on 3rd floor (extinguished spontaneously)	20th 14:30 Cold shutdown achieved at Unit 5. 20th 19:27 Cold shutdown achieved at Unit 6.
Preparedness	12th 00:49 Event falling under Article 15* occurred (Abnormal rise of CV pressure)	13th 11:00 Start venting	13th 05:10 Event falling under Article 15* occurred (Loss of reactor cooling functions)	16th 05:45 Fire occurred (extinguished spontaneously)	22nd 19:41 All power source was switched to external AC power at Unit 5 and 6.
	12th 14:30 Start venting	14th 13:25 Event falling under Article 15* occurred (Loss of reactor cooling functions)	13th 08:41 Start venting	Since 20th, operation of spraying water to the spent fuel pool continues.	Apr. 1st 13:40 Start transferring pooled water in the Unit 6
	12th 15:36 Hydrogen explosion	14th 16:34 Seawater injection to RPV	13th 13:12 Seawater injection to RPV	29th 11:50 lights in the main control room becomes available	radioactive waste process facility to the Unit 5 condenser.
	12th 20:20 Seawater injection to RPV	14th 22:50 Report IAW Article 15* (Abnormal rise of CV pressure)	14th 05:20 Start venting		
	22nd 11:20 RPV temperature increased	15th 00:02 Start venting	14th 07:44 Event falling under Article 15* occurred (Abnormal rise of CV pressure)		
	22nd 02:33 Seawater injection through feed water line started in addition to fire extinguish line	15th 06:10 Sound of explosion, Suppression Pool damage suspected	14th 11:01 Hydrogen explosion		
	24th 11:30 lights in the main control room becomes available	15th 08:25 White smoke reeked	15th 10:22 Radiation dose 400mSv/h		
	25th 15:37 Freshwater injection to the reactor started.	Since 20th, operation of spraying water to the spent fuel pool continues.	16th 08:34, 10:00 White smoke reeked		
	27th 08:30 Continuing to transfer the water in the basement of the turbine building	21st 18:22 White, steam-like smoke erupted from the top of the rector building.	Since 17th, operation of spraying water to the spent fuel pool continues.		
	31st 09:20-11:25 Work to remove the water in the trench	26th 10:10 Freshwater injection to the reactor started.	21st 15:55 Slightly gray smoke erupted (18:02 settled)		
	31st 12:00 Start to transfer the water in the CST to the surge tank (- 15:27, Apr. 2)	26th 16:46 lights in the main control room becomes available	22nd 22:46 lights in the main control room becomes available		
	31st 13:03 Start water injection to SFP	29th 16:45 Start to transfer the water in the CST to the surge tank	25th 18:02 Freshwater injection to the reactor started.		
	Apr. 7th 01:31 Injection of Nitrogen gas started after opening all valves through the line.	Apr. 2nd 16:25 Start injecting concrete to stop water leakage from the pit near the intake	28th 17:40 Start to transfer the water in the CST to the surge tank		
		2nd 17:10 Start transferring water in the condenser to the CST Apr. 5th 15:07 Regarding leakage from the pit that is			
		closed to discharge outlet of unit-2, hardening agent was injected to hole dug surrounding the pit. (Apr. 6 05:38 It was confirmed that the highly radioactive water			
	Apr. 3rd 12:18 Switch power supply for water inje	flow mentioned above stopped.) ction pumps to the RPV from power supply vehicles to or	iginally equipped power source		
Major Data	Reactor Water level (Apr. 07 06:00) (A) -1650mm (B) -1650mm	Reactor Water level (Apr. 07 06:00) -1500mm	Reactor Water level (Apr. 07 06:00) (A) -1800mm, (B) -2250mm		Water temperature of SFP Unit 5 34.8°C (Apr. 07 06:00)
	Reactor pressure (Apr. 07 06:00) (A) 0.363MPaG, (B) 0.758MPaG	Reactor pressure (Apr. 07 06:00) (A) -0.018MPaG, (B) -0.025MPaG	Reactor pressure (Apr. 07 06:00) (A) -0.002MPaG, (B) -0.079MPaG		Unit 6 21.5°C (Apr. 07 06:00)
	CV pressure (Apr. 07 06:00) 0.155MPaabs	CV pressure (Apr. 07 06:00) 0.100MPaabs	CV pressure (Apr. 07 06:00) 0.1075MPaabs		
	RPV temperature (Apr. 07 06:00) 216.3°C at feed water line nozzle	RPV temperature (Apr. 07 06:00) 144.2°C at feed water line nozzle Water temperature in SFP (Apr. 07 06:00) 48.0°C	RPV temperature (Apr. 07 06:00) 83.4°C at feed water line nozzle (under repair)		
		70.0 0			
2) Fukushima Dai-ni NPPs				*SFP: Spent Fuel Storage Pool	

(2) Fukushima Dai-ni NPPs

All units are cold shutdown (Unit-1, 2, 4 have been recovered from a event falling under Article 15*)

3. State of Emergency Declaration

11th 19:03 State of nuclear emergency was declared (Fukushima Dai-ni NPS)

12th 07:45 State of nuclear emergency was declared (Fukushima Dai-ichi NPS)

4. Evacuation Order

11th 21:23 PM direction: for the residents within 3km radius from Fukushima I to evacuate, within 10km radius from Fukushima I to stay in-house 12th 05:44 PM direction: for the residents within 10km radius from Fukushima I to evacuate

12th 17:39 PM direction: for the residents within 10km radius from Fukushima II to evacuate

12th 18:25 PM direction: for the residents within 20km radius from Fukushima I to evacuate

15th 11:06 PM direction: for the residents within 20-30km radius from Fukushima I to stay in-house 25th Governmental advise: for the residents within 20-30 km radius from Fukushima I to voluntarily evacuate *SFP: Spent Fuel Storage Pool

EDG: Emergency Diesel Generator RPV: Reactor Pressure Vessel

R/B: Reactor Building

RHR: Residual Heat Removal system CST: Condensate water Storage Tank



Status of the Nuclear Power Plants after the Earthquake

