## Status of nuclear power plants in Fukushima as of 21:00 March 25 (Estimated by JAIF)



Power Station	Fukushima Dai-ichi Nuclear Power Station							
Unit	1 2 3 4 5 6			6				
Electric / Thermal Power output (MW)	460 / 1380	784 / 2381	784 / 2381	784 / 2381	784 / 2381	1100 /3293		
Type of Reactor	BWR-3	BWR-4	BWR-4	BWR-4	BWR-4	BWR-5		
Operation Status at the earthquake occurred	In Service -> Shutdown	In Service -> Shutdown	In Service -> Shutdown	Outage	Outage	Outage		
Core and Fuel Integrity (Loaded fuel assemblies)	Damaged (400)	Damaged (548)	Damaged (548)	No fuel rods	Not Damaged (548)	Not Damaged (764)		
Reactor Pressure Vessel Integrity	Unknown	Unknown	Unknown	Not Damaged	Not Damaged	Not Damaged		
Containment Vessel Integrity	Not Damaged	Damage Suspected	Not damaged	Not Damaged	Not Damaged	Not Damaged		
Core cooling requiring AC power 1 (Large volumetric freshwater injection)	Not Functional	Not Functional	Not Functional	Not necessary	Functional	Functional		
Core cooling requiring AC power 2 (Cooling through Heat Exchangers)	Not Functional	Not Functional	Not Functional	Not necessary	Functioning (in cold shutdown)	Functioning (in cold shutdown)		
Building Integrity	Severely Damaged (Hydrogen Explosion)	Slightly Damaged	Severely Damaged (Hydrogen Explosion)	Severely Damaged (Hydrogen Explosion)	Open a vent hole on the rooftop for avoiding hydrogen explosion			
Water Level of the Rector Pressure Vessel	Fuel exposed partially or fully	Fuel exposed partially or fully	Fuel exposed partially or fully	Safe	Safe	Safe		
Pressure / Temperature of the Reactor Pressure Vessel	Slightly decreasing after increase  / Decreased after Increase	Unknown	Unknown	Safe	Safe	Safe		
Containment Vessel Pressure	Slightly decreasing after increased	Stable	<u>Stable</u>	Safe	Safe	Safe		
Water injection to core (Accident Management)	Continuing (Freshwater)	Continuing (Seawater)	Continuing (Seawater)	Not necessary	Not necessary	Not necessary		
Water injection to Containment Vessel (AM)	(confirming)	to be decided (Seawater)	(confirming)	Not necessary	Not necessary	Not necessary		
Containment Venting (AM)	Temporally stopped	Temporally stopped	Temporally stopped	Not necessary	Not necessary	Not necessary		
Fuel Integrity in the spent fuel pool (Stored spent fuel assemblies)	Unknown (292)	Unknown (587)	Possibly damaged (514)	Possibly damaged (1331)	Not Damaged (946)	Not Damaged (876)		
Cooling of the spent fuel pool	Water injection to be considered	Seawater Injection conducted in Mar. 20th	Water level low, Seawater spray continue and certain effect was confirmed	Water level low, Seawater spray continue Hydrogen from the pool exploded	Pool cooling capability was recovered	Pool cooling capability was recovered		
Main Control Room Habitability & Operability	Poor due to loss of AC power	Poor due to loss of AC power (Lighting has been recovered.)  Poor due to loss of AC power (Lighting has been recovered.)  Not damaged (estimate)				ed (estimate)		
Environmental effect	The Main Gate: 202.5 µ Sv/h at 15:30, Mar. 25 Radioactive nuclides exceeding the legal standard were detected in milk produced in Fukushima and Ibaraki prefectures and spinach and some other vegetables produced in Fukushima, Ibaraki and other prefectures. Also, radioactive Iodine exceeding the standard set by Nuclear Safety Commission was detected in tap water in Fukushima prefecture. Radioactive Iodine exceeding the legal standard for baby was detected in tap water in Tokyo, Ibaraki, Chiba, and Saitama prefectures. The level of the radioactivity detected is low enough not to do harm to the health of people who take those products or water for a limited time.  Monitoring results of seawater sampled at the coast near the Fukushima Dai-ichi NPS on Mar. 23rd showed that radioactive Iodine, Cesium, Ruthenium, and Tellurium exceeding the regulatory limit were detected. Also, monitoring results of seawater sampled at coasts within about 16km from the Fukushima Dai-ichi NPS in Mar. 23rd showed that radioactive Iodine and Ruthenium exceeding the regulatory limit were detected.  On Mar. 23rd, Nuclear Safety Commission of Japan reported the estimation result of radiation exposure in the surrounding area of Fukushima Dai-ichi NPS, which had been made using SPEEDI (System for Prediction of Environmental Emergency Dose Information).							
Evacuation			who live between 20km to 30km	from the Fukushima Dai-ichi NP	S are to stay indoors.			
INES (estimated by NISA)	Level 5	Level 5	Level 5	Level 3	_	_		
Remarks	Immediate threat is damage of the fuels in the fuel pool outside the containment vessel. The operation for spraying water to the pool is continuing at Unit 3 and 4. Something like steam was seen rising from the reactor building of Unit 1through 4 (as of 7:00, Mar. 24). High—dose rate was measured in Unit 2 turbine building. On Mar. 24th, three workers were exposed to more than 170mSv of radiation in the turbine building of Unit 3. Two of them were then hospitalized because of the possible high exposure dose of their foot skin. Radioactive fission products were detected in the pool at the work area. Their concentration was about 3.9 million Bq/cc, ten thousand times higher than the reactor water in normal operation. NISA indicated the possible damage of the Reactor Pressure Vessel of Unit 3. With these three workers, so far seventeen workers have been exposed to more than 100 mSv of radiation.  Work to recover AC power for Unit 1through 6 is in progress. External AC power has reached to Unit 2, 4, 5 and 6 and is now available in all the units. Integrity check of electric equipment is going on in each unit, which must be done before energizing them. Lighting has been recovered at Unit 1 and 3 Main Control Room. External AC power has replaced with the emergency diesel generator in Unit 5 and 6.  Freshwater injection to the Reactor Pressure Vessel was started at Unit 1 in the afternoon of Mar. 25th.							

### [Source]

Government Nuclear Emergency Response Headquarters: News Release (-3/25 11:00), Press conference NISA: News Release (-3/15 12:30), Press conference TEPCO: Press Release (-3/25 11:00), Press Conference

[Abbreviations]

INES: International Nuclear Event Scale
NISA: Nuclear and Industrial Safety Agency
TEPCO: Tokyo Electric Power Company, Inc.

[Significance judged by JAIF]

Low

High

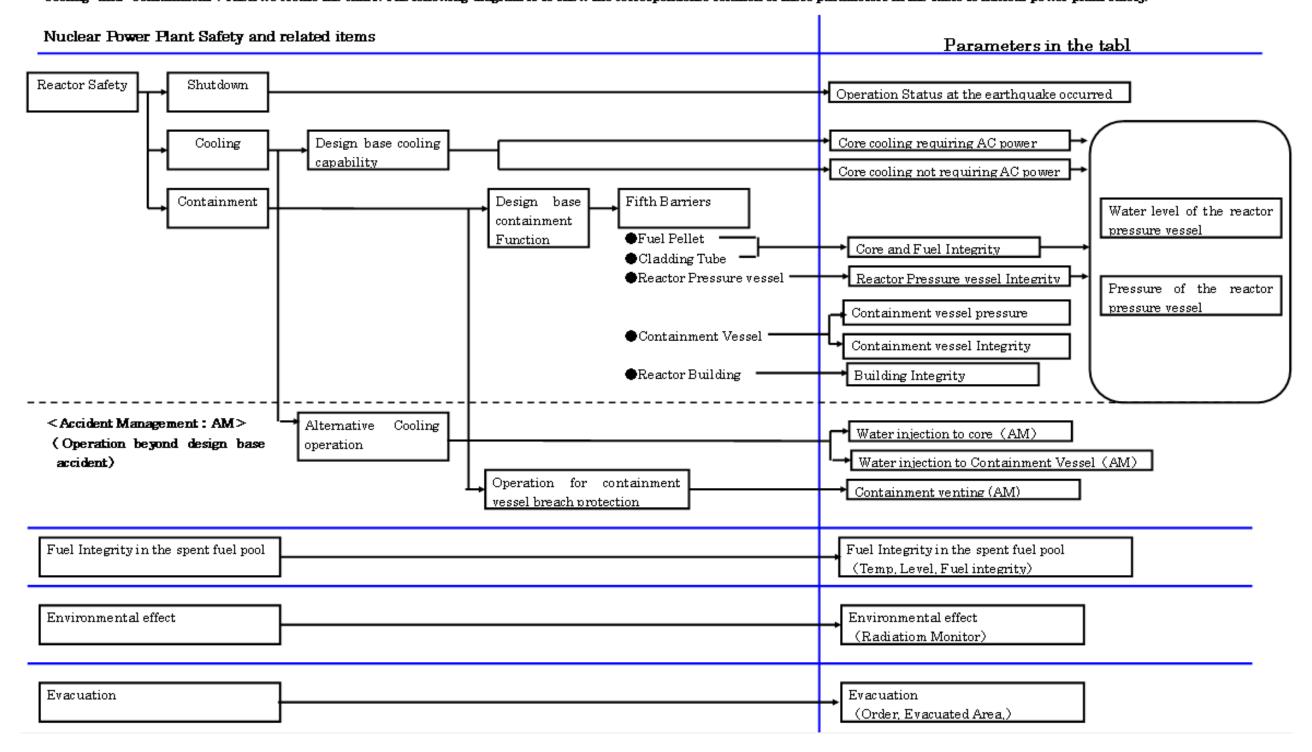
Severe (Need immediate action)

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	Unit-1, 2, 3 & 4, which were in full operation when the earthquake occurred, all shutdown automatically. External power supply was available after the quake. While injecting water into the reactor pressure vessel using make-up water system, TEPCO recovered the core cooling function and made the unit into cold shutdown state one by one. Latest Monitor Indication: 8.9 \(\mu\) Sv/h at 15:00, Mar. 25 at NPS border Evacuation Area: 10km from NPS					
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 Safe					
Power Station	Tokai Dai-ni					
Operation Status at the earthquake occurred						
Status						



#### 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

Unit 3

Unit 2

(March 25th, 2011 15:00)

Unit 4

#### 1. Latest Major Incidents and Actions

<March 23rd>

02:33 Feed Water Line was added to the Fire Extinguish Line to inject water into the Reactor Pressure Vessel in Unit 1.

16:20 Black smoke erupted from Unit 3

17:24 Residual Heat Removal pump stopped automatically as the primary power supply replaced with the temporary power source in Unit 5. Backup pump is to be in service on 24th.

05:35 Water injection to SFP via reactor water clean up system started in Unit 3.

Around 11:30 Lighting has been recovered at Unit 1 Main Control Room.

16:14 Residual Heat Removal pump of Unit 5, which had stopped automatically, was restarted and then the system was put into shutdown cooling mode. <March 25th>

06:45-10:20 Water injection to SFP via reactor water clean up system started in Unit 4

10:30-12:19 Water injection to SFP via reactor water clean up system started in Unit 2

11:00 Switching the water source for injecting into RPV from seawater to freshwater was started at Unit 2 and 3. That has become ready at Unit 1.

Unit 1

#### 2. Chronology of Nuclear Power Stations

#### (1) Fukushima Dai-ichi NPS

The Act on Special Measures Concerning  The Ac	Major Incidents and Actions	11th 15:42 Report IAW Article 10* (Loss of	11th 15:42 Report IAW Article 10* (Loss of	11th 15:42 Report IAW Article 10* (Loss	14th 04:08 Water temperature in Spent	Water temperature in SF Storage Pool is increasing	
Source (Incapability of water injection by com- possing function)  12th 0456 Event failing under Antice 15 12th 1459 Clarify under Antice 15 1	Major moldente and Actions			of power)	Fuel Storage Pool increased at 84°C	water temperature in or otorage rooms increasing	
Social processing of which implication by control (institution County)  12th 16.03 filt immility under Articles 15*	*The Act on Special Measures Concerning				15th 09:38 Fire occurred on 3rd floor	18th Vent hole was opened on the rooftop for	
12th 10-26 Exemit failing under Anicle 15' courses (Ahmana 18c) of CVP pressure) 12th 14-30 Start venting 12th 15-30 Hydrogen explosion 12th 12ch 20-20 Seavester injection to RPV 14th 16-34 Seavester injection to RPV 14th 16-34 Seavester injection to RPV 14th 20-34 Seavester injection t	Nuclear Emergency Preparedness		` ' '	`		· · · · · · · · · · · · · · · · · · ·	
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(A) -1650mm (B) -1			·		T		
Reactor pressure (A) 0.376MPaG, (B) 0.358MPaG (25th 02:00) (A) 0.349MPaG, (B) 0.349MPaG, (B) 0.020MPaG, (B) 0.0	Major Data				·	· ·	
Reactor pressure (25th 10:00) (A) 0.376MPaG, (B) 0.358MPaG (25th 02:00) (A) 0.349MPaG, (B) 0.349MPaG (25th 10:00)  CV pressure 0.325MPaabs (25th 02:00) 0.295MPaabs (25th 10:00)  Water temperature of SFP (25th 10:00)  T7.0°C (25th 10:00)	major 2 ata	(A) <u>-1650mm</u> (B) <u>-1650mm</u>	<u>-1200mm</u>	(A) <u>-1900</u> mm, (B) <u>-2300</u> mm	(immeasurable)		
(A) 0.376MPaG, (B) 0.338MPaG (25th 02:00) (A) -0.020MPaG, (B) -0.020MPaG, (B) -0.020MPaG (A) 0.038MPaG, (B) -0.097MPaG (A) 0.038MPaG, (B) 0.0		Reactor pressure	Pagetor progues (25th 10:00)	Pagetor progrums (25th 06:10)		· · · · · · · · · · · · · · · · · · ·	
CV pressure  0.325MPaabs (25th 02:00) 0.295MPaabs (25th 10:00)  Water temperature of SFP (25th 10:00)							
CV pressure (25th 10:00) 0.325MPaabs (25th 02:00) 0.295MPaabs (25th 10:00)  Water temperature of SFP (25th 10:00)  CV pressure (25th 06:10) 0.107MPaabs  Unit 5 82.7°C (24th 17:00) 51.4°C (25th 01:00) 77.0°C (25th 10:00)		(A) 0.349MPaG, (B) 0.349MPaG (25th 10:00)	(A) -0.0201911 ag, (b) -0.0201917 ag	(A) 0.000 WI AG, (B) -0.091 WIFAG		Unit 6   <u>19.5 C (25th 06:00)</u> 	
0.325MPaabs (25th 02:00)     0.12MPaabs     0.107MPaabs       0.295MPaabs (25th 10:00)     0.12MPaabs     0.107MPaabs       Unit 5 82.7°C (24th 17:00)     51.4°C (25th 01:00)       77.0°C (25th 10:00)		CV pressure					
0.295MPaabs (25th 10:00)  Water temperature of SFP (25th 10:00)  Water temperature of SFP (25th 10:00)							
Water temperature of SFP (25th 10:00)			0.12MPaabs	<u>0.107MPaabs</u>			
			Motor to represent up of OFD (OF4: 40:00)			<u>77.0°C (25th 10:00)</u>	
*SFP: Spent Fuel Storage Pool			<u> 20 U</u>		*CED: Coant Eval Character Dead		

\*SFP: Spent Fuel Storage Pool EDG: Emergency Diesel Generator RPV: Reactor Pressure Vessel

R/B: Reactor Building

#### (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 Declaration11th 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

# Status of the Nuclear Power Plants after the Earthquake

