Fukushima Daiichi Nuclear Power Station Plant Parameters

Some indicators might not be functioning properly beyond the normal condition for usage affected by the earthquake and subsequent events. We comprehensively evaluate situation in plants using all the available information from indicators and also focusing on trends, taking uncertainty

of indicators into consideration.

As of 06:00 on February 11	1
----------------------------	---

Unit 1 Tresh water feeding Feed water system 4.5 m²/h, CS line 1.9 m²/h as of 5:00, 2/11) Fuel range A: Downscale Fuel range B:-1790 mm 33	Unit 2 Fresh water feeding Feed water system 6.7 m²/h, CS line 6.7 m²/h (as of 5:00, 2/11)	Unit 3 Fresh water feeding Feed water system 2.9 m³/h, CS line 6.1 m³/h		Unit 4	Unit 5	Unit 6	
reed water system 4.5 m²/h, CS line 1.9 m²/h as of 5:00 , 2/11) fuel range A: Downscale fuel range B:-1790 mm 3:3	Feed water system 6.7 m³/h, CS line 6.7 m³/h	Feed water system 2.9 m³/h, CS line 6.1 m³/h					
uel range B:-1790 mm 💥 3		(as of 5:00, 2/11)			※2 (Heat removal of the reactor is functioning. Water injection is unnecessary)		
as of 5:00, 2/11)	Fuel range A: Downscale #3 Fuel range B:-2116 mm #3 (as of 5:00, 2/11)	Fuel range B:-2231 mm (as of 5:00 , 2/11)	%3 %3		Stoppage range 2529 mm (as of 6:00 , 2/11)	Stoppage range 2050 mm (as of 6:00 , 2/11)	
System A:-0.005 MPa g System B:-MPa g as of 5:00 , 2/11)	System A:0.006 MPa g System B:-MPa g (as of 5:00 , 2/11)		(A) %3 (C) %3		0.012 MPa g (as of 6:00 , 2/11)	0.019 MPa g (as of 6:00 , 2/11)	
of (Since there is no water inflow in the system it is impossible to collect the data)					38.4 $^{\circ}$ C (as of 6:00 , 2/11)	26.5 °C (as of 6:00 , 2/11)	
emperature in feed-water nozzle:24.0 °C emperature at reactor vessel bottom:24.4 °C as of 5:00 , 2/11)	Temperature in feed-water nozzle:37.0 °C Temperature at reactor vessel bottom:68.5 °C (as of 5:00 , 2/11)	Temperature in feed-water nozzle:40.4 °C Temperature at reactor vessel bottom:49.1 °C (as of 5:00, 2/11)					
0/W:0.1062 MPa abs 5/C:0.124 MPa abs	D/W:0,111 MPa abs S/C: Downscale	D/W:0.1016 MPa abs S/C:0.1890 MPa abs (as of 5:00 , 2/11)	s ti	innecessary ince all fuel are			
RPV bellow seal:25.9 °C IVH return:25.7 °C as of 5:00 , 2/11)	RPV bellow seal:38.4 °C	RPV bellow seal:53.1 °C HVH return:41.6 °C (as of 5:00 , 2/11)	*3				
0/W(A):1.00E-02Sv/h	D/W(A):6.43E+00Sv/h (B)2.50E+00Sv/h	D/W(A):2.95E+00Sv/h (B)1.88E+00Sv/h S/C(A):2.40E-01Sv/h (B)2.30E-01Sv/h (as of 5:00, 2/11)	*3		※2 (Monitoring is unnecessary since heat removal of reactor is functioning.)		
System A:34.5 °C System B:34.4 °C as of 5:00 , 2/11)	System A:37.2 °C System B:37.0 °C (as of 5:00 , 2/11)	System A:29.7 °C System B:29.7 °C (as of 5:00 , 2/11)					
0.01vol% (as of 5:00, 2/11)	0.05vol% (as of 5:00 , 2/11)	-					
0.384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)					
0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)		_	-	_	
23.5℃ (as of 5:00 , 2/11)	12.7°C (as of 5:00 , 2/11)	25.4°C (as of 5:00 , 2/11)		24°C (as of 5:00 , 2/11)	$17.9 ^{\circ}\text{C}$ (as of 6:00 , 2/11)	23.0 °C (as of 6:00 , 2/11)	
3340mm (as of 5:00 , 2/11)	4310mm (as of 5:00 , 2/11)	2640mm (as of 5:00 , 2/11)		3555mm (as of 5:00 , 2/11)	*	2	
Receiving offsite power (P/C2C)		Receiving offsite power (P/C	C4D)		Receiving o	ffsite power	
				Common Spent Fuel Storage: 16°C	5u:SHC mode (from 11:10,2/1)	6u : SHC mode (from 14:02 ,2/9)	
e e e e e e e e e e e e e e e e e e e	(Since therefore the control of the	(as of 5:00 , 2/11) (Since there is no water inflow in the system it is impossible to college imperature in feed-water nozzle:24.0 °C imperature at reactor vessel bottom:24.4 °C in f 5:00 , 2/11) (WO,1062 MPa abs in f 5:00 , 2/11) (WO,1062 MPa abs in f 5:00 , 2/11) (WO,1062 MPa abs in f 5:00 , 2/11) (WO,1062 MPa abs in f 5:00 , 2/11) (WO,1111 MPa abs in f 5:00 , 2/11) (WO,1111 MPa abs in f 5:00 , 2/11) (WO,1111 MPa abs in f 5:00 , 2/11) (WO,1111 MPa abs in f 5:00 , 2/11) (WO,1111 MPa abs in f 5:00 , 2/11) (WO,111 MPa abs in f f 5:00 , 2/11) (WO,111 MPa abs in f f f f f f f f f f f f f f f f f f	(Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Temperature in feed-water nozzle 40.4 °C (Imporature in feed-water nozzle 40.4 °C (Imporature at reactor vessel bottom 49.1 °C (as of 500, 2/11) (Since there is no water inflow in the system it is impossible to collect the data) (Imporature at reactor vessel bottom 49.1 °C (as of 500, 2/11) (Imporature at reactor vessel bottom 49.1 °C (Imporature at reactor vessel	(Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflowing in the system it is impossible to collect the data) (Inflow in the system it is impossible to collect the data in the system it is impossible to collect the data in the system it is impossible to collect the data in the system it is impossible to collect the data in the system it is impossible to collect the data in the system it is impossible to collect the data in the system it is impossible to collect the data in the system is in the system it is impossible to collect the data in the system it is impossible to collect the data in the system is in the system in it is in possible to collect the data in the system is in the system in it is of 500 .2/111 [Since May 10 in the last in the system is in the system in it is in po	(Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Since there is no water inflow in the system it is impossible to collect the data) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500, 2/11) (Monitoring is current in feed-water nozzle40.4 °C is of 500	See of 500, 2/f1 See of 500,	

Pressure conversion Gauge pressure(MPa g) = Absolute pressure(MPa abs) — atmospheric pressure (normal atmospheric pressure0,1013 MPa)

Absolute pressure(MPa abs) = Gauge pressure(MPa g) + atmospheric pressure (normal atmospheric pressure0,1013 MPa)

*1: Instrument failure*2: Not covered for colleting data*3: continuously monitoring the status

Fukushima Daiichi Nuclear Power Station Supplemental explanation for the plant parameters

■Supplemental explanation for each parameter

ltem	Recording manner	Measurement manner	Ch number or number of systems
Status of water injection to the reactor	Water inflow (CS line: Core Spray system)	Temporary	System 1 / 1
Water level in the reactors	Data measured by the water gauge, which monitor the fuel range	Temporary	System A 1/1Ch System B 1/1Ch
Pressure in the reactor	One representing value is noted among multiple data on each System A, B. Readings of temporary instruments are represented in A system for Unit 1 and 2.	Temporary	1/1 system (Unit 1/2) System A 1/2Ch, System B 1/2Ch (Unit 3)
Temperature in the reactor	Since there is no water inflow at the points, where thermometers are set, no data is collected.	_	-
Temperature around the reactor vessel	Data measured at feed-water nozzle and at reactor vessel bottom (1U, 3U: RPV Bottom Head, 2U: RPV Wall Above Bottom Head) are noted among multiple data to view the whole picture.	Temporary	Point of Feed-water nozzle reactor vessel bottom 1/2Ch (Unit1) 1/1Ch (Unit2/3)
Pressure in D/W • S/C	Data from temporary instrument. (D/W: Dry Well、S/C: Suppression Chamber)	Temporary	(D/W) wide range 1 /1Ch (Unit 1) 1 /4Ch (Unit 2/3) (S/C) 1 /1system (Unit 1/2) 1 /2Ch (Unit 3)
D/W Atmosphere temperature	Data at upper point (RPV Bellows Air) and middle point (HVH return) are noted among multiple data to view the whole picture, (RPV : Reactor Pressure Vessel, HVH : Heating Ventilating Handling Unit)	Temporary	RPV Bellows Air 1 / 5Ch D/W HVH return 1 / 5Ch
CAMS radiation monitor	Data from temporary instrument. (CAMS : Containment Atmospheric Monitoring System)	Temporary	D/W System A 1/1Ch System B 1/1Ch S/C System A 1/1Ch System B 1/1Ch
Temperature in S/C	Data from temporary instrument. One representing value is noted among multiple data on each System A, B.	Temporary	System A1 / 4Ch (Unit 1), 8Ch (Unit 2/3) System B1 / 4Ch (Unit 1), 8Ch (Unit 2/3)
Hydrogen concentration in PCV	Data measured by the PCV gas management system. (PCV: Primary Containment Vessel)	Temporary	System 1 / 1
Temperature in the spent fuel pool	Data from temporary instrument. (Non-thermal mode : Urgent Heat load Mode、SHC mode : Shut down Cooling Mode)	Temporary	1/1Ch (Unit 2) 1/1 system (Unit 1/3/4)
FPC skimmer surge tank level	Unit2, 4 are the FPC skimmer surge tank level measured temporary instrument. Unit1, 3 are the FPC skimmer surge tank level estimated from temporary pressure gages.(reference value) (FPC: Fuel Pool Cooling system)	Temporary	1/1system

■Supplemental explanation for notes

ltem	Contents	Status As of 06:00 on February 11			
Instrument failure	Instrument failure: down of instrument reading (over) scale/failure of instrument	Unit 1 CAMS D/W radiation monitor Unit 2 Pressure in S/C, CAMS D/W(B) radiation monitor, CAMS S/C(B) radiation monitor Unit 3 —			
Not covered for collecting data	Unit4: Monitoring is not implemented since all fuel are takeoff. Unit5/6: Monitoring is not implemented since heat removal of reactor is functioning	-			
Continuously monitoring the status	Inaccurate Data defined from relation with other Parameters such as negative figure.	Unit 1 Reactor water level (B), Pressure in S/C Unit 2 Reactor water level, RPV bellow air temperature,HVH return temperature Unit 3 Reactor water level, reactor pressure, RPV bellow air temperature, CAMS D/W(A) radiation monitor Hydrogen Density of PCV: In case that the instrument indicates minus hydrogen density, "0%" is recorded. (Because there's the possibility of minus indication due to the instrumental precision when hydrogen density is very low.)			