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.

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	00 on March 2	1				,	
Unit	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	
Status of water injection to the reactor	Fresh water feeding Feed water system 4.5 m²/h, CS line 1.7 m²/h (as of 11:00, 3/2)	Fresh water feeding Feed water system 2.7 m²/h, CS line 5.8 m²/h (as of 11:00 , 3/2)	Fresh water feeding Feed water system 1.6 \vec{n} /h, CS line 5.1 \vec{n} /h (as of 11:00 , 3/2)		%2 (Heat removal of the reactor is functioning. Water injection is unnecessary)		
Water level in the reactor	Fuel range A: Downscale Fuel range B:-1740 mm	Fuel range A: Downscale #3 Fuel range B:-2113 mm #3 (as of 11:00, 3/2)	Fuel range A:-1492 mm		Stoppage range 2519mm (as of 12:00, 3/2)	Stoppage range 1978mm (as of 12:00 , 3/2)	
Pressure in the reactor	System A:-0.005 MPa g System B:-MPa g (as of 11:00 , 3/2)	System A:0.014 MPa g System B:-MPa g (as of 11:00 , 3/2)	System A: Downscale (A)% System B: Downscale (C)% (as of 11:00, 3/2)		0.010 MPa g (as of 12:00 , 3/2)	0.018 MPa g (as of 12:00 , 3/2)	
Water temperature of the reactor	(Since there is no water inflow in the system it is impossible to collect the data)			38.1 ℃ (as of 12:00 , 3/2)	26.8 °C (as of 12:00 , 3/2)		
Temperature around the reactor vessel	Temperature in feed-water nozzle:23.7 °C Temperature at reactor vessel bottom:23.7 °C (as of 11:00, 3/2)	Temperature in feed-water nozzle:43.4 °C Temperature at reactor vessel bottom:44.8 °C (as of 11:00, 3/2)	Temperature in feed-water nozzle:42.7 °C Temperature at reactor vessel bottom:52.9 °C (as of 11:00, 3/2)	%2 (Monitoring is			
Pressure in D/W · S/C	D/W:0.1067 MPa abs S/C:0.120 MPa abs	D/W:0.118 MPa abs S/C: Downscale	D/W:0.1016 MPa abs S/C:0.1851 MPa abs (as of 11:00, 3/2)	unnecessary since all fuel are takeoff)			
D/W Atmosphere temperature	RPV bellow seal:24.8 °C HVH return:24.8 °C (as of 11:00 , 3/2)	RPV bellow seal:45.0 °C	RPV bellow seal:55.1 °C				
CAMS radiation monitor	D/W(A):1,00E-02Sv/h	D/W(A):6,25E+00Sv/h (B):2,52E+00Sv/h (B):2,52E+00Sv/h (B):1,00E+01Sv/h (B):1,00E+01Sv/h (as of 11:00 , 3/2)	D/W(A):2,85E+00Sv/h		※2 (Monitoring is unnecessary reactor is functioning.)	g is unnecessary since heat removal of unctioning.)	
Temperature in S/C	System A:32.8 °C System B:32.8 °C (as of 11:00 , 3/2)	System A:33,7 °C System B:33.5 °C (as of 11:00, 3/2)	System A:28.4 °C System B:28.3 °C (as of 11:00 , 3/2)				
Hydrogen concentration in PCV	0,00vol% (as of 11:00 , 3/2) **3	0.07vol% (as of 11:00 , 3/2)	-				
Designed usable D/W pressure	0.384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)	0.384MPa g (0.485MPa abs)				
Designed usable D/W maximum pressure	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	0.427MPa g (0.528MPa abs)	_			
Temperature in the spent fuel pool	26.0°C (as of 11:00 , 3/2)	13.5°C (as of 11:00 , 3/2)	13.4°C (as of 11:00 , 3/2)	24°C (as of 11:00 , 3/2)	17.4 °C (as of 12:00 , 3/2)	23.0 °C (as of 12:00 , 3/2)	
FPC skimmer surge tank level	4310mm (as of 11:00 , 3/2)	3450mm (as of 11:00 , 3/2)	3890mm (as of 11:00 , 3/2)	4461mm (as of 11:00, 3/2)	*	£2	
Power source	Receiving offsite	power (P/C2C)	Receiving offsite power (P/C4D)	•	Receiving o	ffsite power	
Others				Temperature in the Common Spent Fuel Storage: 18°C (as of 10'15, 3/2)	5u : SHC mode (from 10:55 ,2/29)	6u : SHC mode (from 11:17 ,2/23)	

Pressure conversion Gauge pressure (MPa g) = Absolute pressure (MPa abs) - atmospheric pressure (normal atmospheric pressure 0.1013 MPa)

Absolute pressure (MPa abs) = Gauge pressure (MPa g) + atmospheric pressure (normal atmospheric pressure 0.1013 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 12:00 on March 2
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,RPV bellow air temperature, CAMS D/W(B) radiation monitor, CAMS S/C(B) radiation monitor Unit 3 —
	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(PM) return temperature Unit 3 Reactor water level, reactor pressure, RPV bellow air temperature, CAMS D/W(A) radiation monitor Unit1-2 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.)