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 [Decem	ber 1
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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 4.2 m ³ /h (as of 5:00 , 12/1)	Fresh water feeding Feed water system 3.1 m ³ /h, CS line 4.3 m ³ /h (as of 5:00, 12/1)	Fresh water feeding Feed water system 2.1m³/h, CS line 6.1m³/h (as of 5:00 , 12/1)		2 (Heat removal of the re injection is unnecessary)	actor is functioning. Water
	Fuel range A: Downscale Fuel range B:-1410 mm 3 (as of 5:00 , 12/1)	Fuel range A: Downscale 3 Fuel range B:-2118 mm 3 (as of 5:00 , 12/1)	Fuel range A:-1684 mm 3 Fuel range B:-2139 mm 3 (as of 5:00 , 12/1)		Stoppage range 1811mm (as of 6:00 , 12/1)	Stoppage range 2121mm (as of 6:00 , 12/1)
	System A:0.007 MPa g System B:-MPa g (as of 5:00 , 12/1)	System A:0.008 MPa g System B:-MPa g (as of 5:00 , 12/1)	System A: Downscale		0.010 MPa g (as of 6:00 , 12/1)	0.018 MPa g (as of 6:00 , 12/1)
Water temperature of the reactor]	25.3 (as of 6:00 , 12/1)	25.6 (as of 6:00 , 12/1)	
	Temperature in feed-water nozzle:43.3 Temperature at reactor vessel bottom:44.4 (as of 5:00 , 12/1)	Temperature in feed-water nozzle:71.5 Temperature at reactor vessel bottom:69.1 (as of 5:00 , 12/1)	Temperature in feed-water nozzle:60.2 Temperature at reactor vessel bottom:68.5 (as of 5:00 , 12/1)	2 (Monitoring is unnecessary since all fuel are	2 (monitoring through wa	iter temperature of the
	D/W:0.1171 MPa abs S/C:0.079 MPa abs 3 (as of 5:00 , 12/1)	D/W:0.111 MPa abs S/C: Downscale 1 (as of 5:00 , 12/1)	D/W:0.1016 MPa abs S/C:0.1849 MPa abs (as of 5:00 , 12/1)	takeoff)		
	RPV bellow seal:45.8 HVH return:47.2 (as of 5:00 , 12/1)	RPV bellow seal:61.2 3 HVH return:77.2 3 (as of 5:00 , 12/1)	RPV bellow seal:83.1 3 HVH return:60.8 (as of 5:00 , 12/1)			
CAMS radiation monitor	D/W(A):1.00E-02Sv/h 1 (B):1.67E+01Sv/h 1 S/C(A):6.60E-01Sv/h (B):6.80E-01Sv/h (as of 5:00 , 12/1)	D/W(A):7.24E+00Sv/h (B):2.97E+00Sv/h S/C(A):7.00E-02Sv/h (B):2.66E+00Sv/h (as of 5:00 , 12/1)	D/W(A):3.17E+00Sv/h (B):2.13E+00Sv/h S/C(A):2.61E-01Sv/h (B):2.48E-01Sv/h (as of 5:00 , 12/1)	2 (Monitoring is unnecessary since heat removal of reactor is functioning.)		since heat removal of
	System A:45.4 System B:45.4 (as of 5:00 , 12/1)	System A:46.8 System B:46.7 (as of 5:00 , 12/1)	System A:38.8 System B:38.9 (as of 5:00 , 12/1)			
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	17.5 (as of 5:00 , 12/1)	22.7 (as of 5:00 , 12/1)	20.1 (as of 5:00 , 12/1)	27 (as of 5:00, 12/1)	24.5 (as of 6:00 , 12/1)	20.0 (as of 6:00 , 12/1)
FPC skimmer surge tank level	2270mm (as of 5:00 , 12/1)	6130mm (as of 5:00 , 12/1)	4960mm (as of 5:00 , 12/1)	2872mm (as of 5:00, 12/1)		2
Power source	Receiving offsite	power (P/C2C)	Receiving offsite power (P/C4D)	•	Receiving of	fsite power
Others	· HVH return temperature of Unit 2 D/W is "undedefect.	ent Vessel (PCV) gas management system, Unit 2: er continuously monitoring" as the cause is under i	investigation after the confirmation of possibility o	Temperature in the Common Spent Fuel Storage: 23 (as of 9:50, 11/30)	5u: SHC mode (from 17:29,11/30)	6u : SHC mode (from 16:45 ,11/24)

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

Item	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 / 1 Ch System B 1 / 1 Ch
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 / 2 Ch, System B 1 / 2 Ch (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 1 / 4 Ch reactor vessel bottom 1 / 2 Ch (Unit 1) 1 / 1 Ch (Unit 2/3)
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 / 5 Ch D/W HVH return 1 / 5 Ch
CAMS radiation monitor	Data from temporary instrument. (CAMS : Containment Atmospheric Monitoring System)	Temporary	D/W System A 1 / 1 Ch
Temperature in S/C	Data from temporary instrument. One representing value is noted among multiple data on each System A, B.	Temporary	System A 1 / 4 Ch (Unit 1) 、 8 Ch (Unit 2 / 3) System B 1 / 4 Ch (Unit 1) 、 8 Ch (Unit 2 / 3)
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 / 1 Ch (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 December 1
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