# Fukushima Daiichi Nuclear Power Station　Plant Parameters

As of 12:00 on December 8

| 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 4.3m³/h (as of 11:00 , 12/8) | Fresh water feeding Feed water system 3.0m³/h, CS line 4.1m³/h (as of 11:00 , 12/8) | Fresh water feeding Feed water system 2.0m³/h, CS line 6.0m³/h (as of 11:00 , 12/8) | | ※2（Heat removal of the reactor is functioning. Water injection is unnecessary） | |
| Water level in the reactor | Fuel range A: Downscale Fuel range B:-1470 mm ※3 (as of 11:00 , 12/8) | Fuel range A: Downscale ※3 Fuel range B:-2103 mm ※3 (as of 11:00 , 12/8) | Fuel range A:-1615 mm ※3 Fuel range B:-2152 mm ※3 (as of 11:00 , 12/8) | | Stoppage range 1819mm (as of 12:00 , 12/8) | Stoppage range 2095mm (as of 12:00 , 12/8) |
| Pressure in the reactor | System A:0.010 MPa g System B:-MPa g (as of 11:00 , 12/8) | System A:0.012 MPa g System B:-MPa g (as of 11:00 , 12/8) | System A:Downscale (A)※3 System B:Downscale (C)※3 (as of 11:00 , 12/8) | | 0.010 MPa g (as of 12:00 , 12/8) | 0.018 MPa g (as of 12:00 , 12/8) |
| Water temperature of the reactor | (Since there is no water inflow in the system it is impossible to collect the data) | | | | 29.0 ℃ (as of 12:00 , 12/8) | 25.5 ℃ (as of 12:00 , 12/8) |
| Temperature around the reactor vessel | Temperature in feed-water nozzle:43.5 ℃ Temperature at reactor vessel bottom:44.6 ℃ (as of 11:00 , 12/8) | Temperature in feed-water nozzle:71.4 ℃ Temperature at reactor vessel bottom:70.8 ℃ (as of 11:00 , 12/8) | Temperature in feed-water nozzle:60.2 ℃ Temperature at reactor vessel bottom:66.9 ℃ (as of 11:00 , 12/8) | ※2 （Monitoring is unnecessary since all fuel are takeoff) | ※2（monitoring through water temperature of the reactor） | |
| Pressure in D/W・S/C | D/W:0.1185 MPa abs S/C:0.084 MPa abs ※3 (as of 11:00 , 12/8) | D/W:0.115 MPa abs S/C: Downscale ※1 (as of 11:00 , 12/8) | D/W:0.1016 MPa abs S/C:0.1843 MPa abs (as of 11:00 , 12/8) | | ※2 （Monitoring is unnecessary since heat removal of reactor is functioning.） | |
| D/W Atmosphere temperature | RPV bellow seal:46.0 ℃ HVH return:47.3 ℃ (as of 11:00 , 12/8) | RPV bellow seal:68.3 ℃ ※3 HVH return:83.9 ℃ ※3 (as of 11:00 , 12/8) | RPV bellow seal:75.0 ℃ ※3 HVH return:60.7 ℃ (as of 11:00 , 12/8) | | | |
| CAMS radiation monitor | D/W(A):1.00E-02Sv/h ※1 　　(B):1.42E+01Sv/h ※1 S/C(A):6.60E-01Sv/h 　　(B):6.80E-01Sv/h (as of 11:00 , 12/8) | D/W(A):7.13E+00Sv/h 　　(B):2.92E+00Sv/h ※1 S/C(A):8.00E-02Sv/h 　　(B):2.58E+00Sv/h ※1 (as of 11:00 , 12/8) | D/W(A):3.13E+00Sv/h ※3 　　(B):2.11E+00Sv/h S/C(A):2.59E-01Sv/h 　　(B):2.45E-01Sv/h (as of 11:00 , 12/8) | | | |
| Temperature in S/C | System A:44.7 ℃ System B:44.6 ℃ (as of 11:00 , 12/8) | System A:48.3 ℃ System B:48.2 ℃ (as of 11:00 , 12/8) | System A:37.7 ℃ System B:37.8 ℃ (as of 11:00 , 12/8) | | | |
| 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 | 15.5 ℃ (as of 11:00 , 12/8) | 23.1℃ (as of 11:00 , 12/8) | 16.2 ℃ (as of 11:00 , 12/8) | 23℃ (as of 11:00 , 12/8) | 19.4 ℃ (as of 12:00 , 12/8) | 18.5 ℃ (as of 12:00 , 12/8) |
| FPC skimmer surge tank level | 4130mm (as of 11:00 , 12/8) | 5510mm (as of 11:00 , 12/8) | 4730mm (as of 11:00 , 12/8) | 4696mm (as of 11:00 , 12/8) | ※2 | |
| Power source | Receiving offsite power （P/C2C） | | Receiving offsite power （P/C4D） | | Receiving offsite power | |
| Others | ・Hydrogen concentration by Pressure Containment Vessel (PCV) gas management system, Unit 2: 0.5vol% (as of 11:00 , 12/8) ・HVH return temperature of Unit 2 D/W is "under continuously monitoring" as the cause is under investigation after the confirmation of possibility of defect. | | | Temperature in the Common Spent Fuel Storage: 21℃ (as of 9:50 , 12/8) | 5u : SHC mode (from 14:24 ,12/6) | 6u : SHC mode (from 11:03 ,12/1) |

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　1／1Ch<br>System B　1／1Ch |
| Pressure in the reactor | One representing value is noted among multiple data on each System A, B.<br>Readings of temporary instruments are represented in A system for Unit 1and 2. | Temporary | 1／1 system (Unit 1/2)<br>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　1／4Ch<br>reactor vessel bottom　　　1／2Ch (Unit1)<br>　　　　　　　　　　　　1／1Ch （Unit2/3） |
| Pressure in D/W・S/C | Data from temporary instrument.<br>（D/W：Dry Well、S/C：Suppression Chamber） | Temporary | （D/W）<br>wide range 1／1Ch (Unit 1)<br>1／4Ch (Unit 2/3)<br>（S/C）<br>1／1system (Unit 1/2)<br>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<br>D/W HVH return　　　1／5Ch |
| CAMS radiation monitor | Data from temporary instrument.<br>（CAMS：Containment Atmospheric Monitoring System） | Temporary | D/W　　System A　1／1Ch<br>　　　　System B　1／1Ch<br>S/C　　System A　1／1Ch<br>　　　　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）<br>System B1／4Ch（Unit 1）、8Ch（Unit 2/3） |
| Temperature in the spent fuel pool | Data from temporary instrument.<br>（Non-thermal mode：Urgent Heat load Mode、SHC mode：Shut down Cooling Mode） | Temporary | 1／1Ch（Unit 2）<br>1／1 system（Unit 1/3/4） |
| FPC skimmer surge tank level | ・Unit2, 4 are the FPC skimmer surge tank level measured temporary instrument.<br>・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

| Item | Contents | Status As of 12:00 on December 8 |
|---|---|---|
| Instrument failure | Instrument failure：down of instrument reading（over）scale／failure of instrument | Unit 1　CAMS D/W radiation monitor<br>Unit 2　Pressure in S/C, CAMS D/W(B) radiation monitor, CAMS S/C(B) radiation monitor<br>Unit 3　— |
| Not covered for collecting data | Unit4: Monitoring is not implemented since all fuel are takeoff.<br>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<br>Unit 2　Reactor water level, RPV bellow air temperature,HVH return temperature<br>Unit 3　Reactor water level, reactor pressure, RPV bellow air temperature,<br>　　　　CAMS D/W(A) radiation monitor |