### Fukushima Daiichi Nuclear Power Station Plant Parameters

#### Status of water injection to the reactor

<table>
<thead>
<tr>
<th>Unit 1</th>
<th>Unit 2</th>
<th>Unit 3</th>
<th>Unit 4</th>
<th>Unit 5</th>
<th>Unit 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed water system 4.3m³/h</td>
<td>Feed water system 2.9m³/h, CS line 4.3m³/h</td>
<td>Feed water system 2.1m³/h, CS line 6.0m³/h</td>
<td>---</td>
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</tr>
<tr>
<td>---</td>
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<td>---</td>
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<td>---</td>
</tr>
</tbody>
</table>

#### Water level in the reactor

| Fuel range A: | Fuel range B: | Fuel range C: |
| 1809mm | 2095mm | --- |

#### Pressure in the reactor

<table>
<thead>
<tr>
<th>System A:</th>
<th>System B:</th>
<th>System C:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000 MPa</td>
<td>840 MPa</td>
<td>25.6 ℃</td>
</tr>
</tbody>
</table>

#### Water temperature of the reactor

- Temperature in feed-water nozzle: 71.2 ℃
- Temperature at reactor vessel bottom: 77.3 ℃ (as of 5:00, 12/10)
- RPV bellow seal: 71.8 ℃
- HVH return: 83.2 ℃ (as of 5:00, 12/10)

#### Water level in the reactor

<table>
<thead>
<tr>
<th>System A:</th>
<th>System B:</th>
<th>System C:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5860mm</td>
<td>4190mm</td>
<td>---</td>
</tr>
</tbody>
</table>

#### Fuel range

- Fuel range A: -1709 mm (as of 5:00, 12/10)
- Fuel range B: -2212 mm (as of 5:00, 12/10)
- Fuel range C: -2212 mm (as of 5:00, 12/10)

#### Power source

- Receiving offsite power (P/C2C): 14.0 ℃ (as of 5:00, 12/10)
- Receiving offsite power (P/C4D): 15.1 ℃ (as of 5:00, 12/10)

#### Others

- Hydrogen concentration by Pressure Containment Vessel (PCV) gas management system, Unit 2: 0.5vol% (as of 5:00, 12/10)
- 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.
### Supplemental explanation for the plant parameters

#### Supplemental explanation for each parameter

<table>
<thead>
<tr>
<th>Item</th>
<th>Recording manner</th>
<th>Measurement manner</th>
<th>Ch number or number of systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status of water injection to the reactor</td>
<td>Water inflow (CS line: Core Spray system)</td>
<td>Temporary</td>
<td>System 1/1</td>
</tr>
<tr>
<td>Water level in the reactors</td>
<td>Data measured by the water gauge, which monitor the fuel range</td>
<td>Temporary</td>
<td>System A 1/1Ch, System B 1/1Ch</td>
</tr>
<tr>
<td>Pressure in the reactor</td>
<td>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.</td>
<td>Temporary</td>
<td>1/1 system (Unit 1/2), System A 1/2Ch, System B 1/2Ch (Unit 3)</td>
</tr>
<tr>
<td>Temperature in the reactor</td>
<td>Since there is no water inflow at the points, where thermometers are set, no data is collected.</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Temperature around the reactor vessel</td>
<td>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.</td>
<td>Temporary</td>
<td>Point of Feed water nozzle reactor vessel bottom 1/4Ch, 1/2Ch (Unit 1), 1/1Ch (Unit 2/3)</td>
</tr>
<tr>
<td>Pressure in D/W・S/C</td>
<td>Data from temporary instrument, (D/W: Dry Well, S/C: Suppression Chamber)</td>
<td>Temporary</td>
<td>(D/W) wide range 1/1Ch (Unit 1), 1/4Ch (Unit 2/3), (S/C) 1/1Ch system (Unit 1/2), 1/2Ch (Unit 3)</td>
</tr>
<tr>
<td>D/W Atmosphere temperature</td>
<td>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)</td>
<td>Temporary</td>
<td>RPV Bellows Air 1/5Ch, D/W HVH return 1/5Ch</td>
</tr>
<tr>
<td>CAMS radiation monitor</td>
<td>Data from temporary instrument, (CAMS: Containment Atmospheric Monitoring System)</td>
<td>Temporary</td>
<td>D/W System A 1/1Ch, System B 1/1Ch, S/C System A 1/1Ch, System B 1/1Ch</td>
</tr>
<tr>
<td>Temperature in S/C</td>
<td>Data from temporary instrument, One representing value is noted among multiple data on each System A, B.</td>
<td>Temporary</td>
<td>System A 1/4Ch (Unit 1), 8Ch (Unit 2/3), System B 1/4Ch (Unit 1), 8Ch (Unit 2/3)</td>
</tr>
<tr>
<td>Temperature in the spent fuel pool</td>
<td>Data from temporary instrument, (Non-thermal mode: Urgent Heat load Mode, SHC mode: Shut down Cooling Mode)</td>
<td>Temporary</td>
<td>1/1Ch (Unit 2), 1/1 system (Unit 1/3/4)</td>
</tr>
<tr>
<td>FPC skimmer surge tank level</td>
<td>• Unit 2, 4 are the FPC skimmer surge tank level measured temporary instrument. • Unit 1, 3 are the FPC skimmer surge tank level estimated from temporary pressure gages. (reference value)</td>
<td>FPC: Fuel Pool Cooling system!</td>
<td>Temporary</td>
</tr>
</tbody>
</table>

#### Supplemental explanation for notes

<table>
<thead>
<tr>
<th>Item</th>
<th>Contents</th>
<th>Status As of 06:00 on December 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instrument failure</td>
<td>Instrument failure: down of instrument reading (over) scale/failure of instrument</td>
<td>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 —</td>
</tr>
<tr>
<td>Not covered for collecting data</td>
<td>Unit 4: Monitoring is not implemented since all fuel are taken off. Unit 5/6: Monitoring is not implemented since heat removal of reactor is functioning.</td>
<td>—</td>
</tr>
<tr>
<td>Continuously monitoring the status</td>
<td>Inaccurate Data defined from relation with other Parameters such as negative figure.</td>
<td>Unit 1 Reactor water level/B: Pressure in S/C, Unit 2 Reactor water level, RPV bellow air temperatures/HVH return temperature, Unit 3 Reactor water level, reactor pressure, RPV bellow air temperature, CAMS D/W/A radiation monitor</td>
</tr>
</tbody>
</table>

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**Fukushima Daiichi Nuclear Power Station Supplemental explanation for the plant parameters**

**Supplemental explanation for each parameter**

- **Status of water injection to the reactor**
  - Water inflow (CS line: Core Spray system)
  - Recording manner: Temporary
  - Measurement manner: System 1/1

- **Water level in the reactors**
  - Data measured by the water gauge, which monitor the fuel range
  - Recording manner: Temporary
  - Measurement manner: 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.
  - Recording manner: Temporary
  - Measurement manner: 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.
  - Recording manner: —
  - Measurement manner: —

- **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.
  - Recording manner: Temporary
  - Measurement manner: Point of Feed water nozzle reactor vessel bottom 1/4Ch, 1/2Ch (Unit 1), 1/1Ch (Unit 2/3)

- **Pressure in D/W・S/C**
  - Data from temporary instrument, (D/W: Dry Well, S/C: Suppression Chamber)
  - Recording manner: Temporary
  - Measurement manner: (D/W) wide range 1/1Ch (Unit 1), 1/4Ch (Unit 2/3), (S/C) 1/1Ch system (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)
  - Recording manner: Temporary
  - Measurement manner: RPV Bellows Air 1/5Ch, D/W HVH return 1/5Ch

- **CAMS radiation monitor**
  - Data from temporary instrument, (CAMS: Containment Atmospheric Monitoring System)
  - Recording manner: Temporary
  - Measurement manner: 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.
  - Recording manner: Temporary
  - Measurement manner: System A 1/4Ch (Unit 1), 8Ch (Unit 2/3), System B 1/4Ch (Unit 1), 8Ch (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)
  - Recording manner: Temporary
  - Measurement manner: 1/1Ch (Unit 2), 1/1 system (Unit 1/3/4)

- **FPC skimmer surge tank level**
  - Unit 2, 4 are the FPC skimmer surge tank level measured temporary instrument.
  - Unit 1, 3 are the FPC skimmer surge tank level estimated from temporary pressure gages. (reference value) FPC: Fuel Pool Cooling system!
  - Recording manner: Temporary
  - Measurement manner: 1/1 system

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**Supplemental explanation for notes**

- **Instrument failure**
  - Instrument failure: down of instrument reading (over) scale/failure of instrument

- **Not covered for collecting data**
  - Unit 4: Monitoring is not implemented since all fuel are taken off.
  - Unit 5/6: 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.