

Status of countermeasures for restoring from the accident at Fukushima Daiichi Unit 1 through 4. As of August 10th, 2011. (Estimated by JAIF)

|                                                                       |                                                     | Unit 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Unit 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Unit 3                                                                                                                                                                                                                                          | Unit 4                                            | Notes                                                             |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|-----------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Basic information                                                     | Type of plant                                       | BWR-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BWR-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BWR-4                                                                                                                                                                                                                                           | BWR-4                                             |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | Electric / Thermal power output                     | 460/1380                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 784/2381                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 784/2381                                                                                                                                                                                                                                        | 784/2381                                          |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
| Plant status when hit by the earthquake                               | Operation status                                    | In service → Shutdown                                                                                                                                                                                                                                                                                                                                                                                                                                                    | In service → Shutdown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | In service → Shutdown                                                                                                                                                                                                                           | Outage                                            |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | No. of nuclear fuels loaded in the reactor          | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 548                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 548                                                                                                                                                                                                                                             | 0                                                 |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | No. of spent fuels stored in the SFP                | 292                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 587                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 514                                                                                                                                                                                                                                             | 1331                                              |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | External power supply                               | Stopped due to the earthquake                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | Emergency power supply                              | Emergency Diesel Generator once had started in response to loss of external power stopped when the tsunami hit these plants.                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
| Current status of the plant and the progress of countermeasures taken | Reactor cooling                                     | Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Core and fuel integrity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Damaged (core melt*1)                                                                                                                                                                                                                           | Damaged (core melt*1)                             | Damaged (core melt*1)                                             | No fuels loaded                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RPV structural integrity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Partially damaged and leaking                                                                                                                                                                                                                   | Unknown                                           | Unknown                                                           | No damage                                                                                                                                                                                                                                                                                                                                                 |                                                                           |                                                                                      |
|                                                                       |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PCV structural integrity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Damage and leakage suspected                                                                                                                                                                                                                    | Damage and leakage suspected                      | Damage and leakage suspected                                      | No damage                                                                                                                                                                                                                                                                                                                                                 |                                                                           |                                                                                      |
|                                                                       |                                                     | Core cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cooling with the alternative system created after the tsunami                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                 |                                                   |                                                                   | Not required                                                                                                                                                                                                                                                                                                                                              |                                                                           |                                                                                      |
|                                                                       |                                                     | measu                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Goal of STEP 2 (Jul. through Jan., 2012)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | To achieve Cold shutdown condition: 1) Temperature of RPV bottom is, in general, below 100℃, 2) Release of radioactive materials from PCV is under control and public radiation exposure by additional release is being significantly held down |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           | —                                                                         | “Cold shutdown status” is redefined in the status progress report issued on July 19. |
|                                                                       |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Circulating injection cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | System in operation [partial operation: 6/27~, full operation: 7/2~]                                                                                                                                                                            |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           | —                                                                         |                                                                                      |
|                                                                       |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Nitrogen gas injection into PCV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Injection continued [4/6~]                                                                                                                                                                                                                      | Injection continued [6/28~]                       | Injection started [7/14~]                                         | —                                                                                                                                                                                                                                                                                                                                                         |                                                                           |                                                                                      |
|                                                                       | Challenge                                           | Continuation and enforcement of the circulating injection cooling                                                                                                                                                                                                                                                                                                                                                                                                        | Stable operation of the system for circulating injection cooling is crucial under circumstance that it is difficult for the core to be submerged. As the reactor injection flow rate is higher at Unit 3, generating lager amount of high level radioactive water accumulated in the building, measures to reduce the injection flow rate by such a way as pouring water directly to the fuels are studied. High level radiation hampers the work inside the R/B.                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                 |                                                   |                                                                   | —                                                                                                                                                                                                                                                                                                                                                         |                                                                           |                                                                                      |
|                                                                       |                                                     | SFP cooling                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fuel integrity in SFP                                                                                                                                                                                                                           | Unknown                                           | Most spent fuels not damaged*2                                    | Unknown                                                                                                                                                                                                                                                                                                                                                   | Most spent fuels not damaged*2                                            |                                                                                      |
|                                                                       | SFP cooling                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Injection function recovered                                                                                                                                                                                                                    | Function recovered                                | Function recovered                                                | Function recovered                                                                                                                                                                                                                                                                                                                                        |                                                                           |                                                                                      |
|                                                                       | measures                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Goal of STEP 2 (Jul. through Jan., 2012)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | More stable cooling: Establishment of circulation cooling with Hx (already achieved at Unit 2 and 3)                                                                                                                                            |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Restoration of water injection through normal cooling system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Water injection using normal line                                                                                                                                                                                                               | Circulating cooling using heat exchanger          | Circulating cooling using heat exchanger                          | Circulating cooling using heat exchanger                                                                                                                                                                                                                                                                                                                  | Injecting corrosion inhibitor, hydrazine (H2NNH2), with freshwater [5/9~] |                                                                                      |
|                                                                       | Circulation cooling with Hx                         | Work to be started                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Hx newly installed in operation [5/31~]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Hx newly installed in operation [6/30~]                                                                                                                                                                                                         | Hx newly installed in operation [7/31~]           |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
| Accumulated water                                                     | Status                                              | Increase and accumulation of radioactively contaminated water                                                                                                                                                                                                                                                                                                                                                                                                            | High level radioactive wastewater is accumulating in the R/B, T/B and RW/B of each unit. (approx. 96,920m3 [8/2])                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Goal of STEP 2 (Jul. through Jan., 2012)                                                                                                                                                                                                                                                                                                                                                                                                                                 | Reduction of total amount of contaminated water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | measures                                            | Installation of water process facility                                                                                                                                                                                                                                                                                                                                                                                                                                   | -Highly radioactive wastewater treatment system installed on June 17 is now working on a full-scale basis. (Capacity 1200m3/day)<br>-Water processed with this system has been reused for core injection for cooling since June 27.                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Elimination, continuous processing and system enhancement of accumulated water in the building                                                                                                                                                                                                                                                                                                                                                                           | -Highly radioactive wastewater in Unit 2 and unit 3 has been transferred to the Centralized Radiation Waste Treatment Facility since April 19.<br>-Construction work to install additional Cesium adsorption unit (installed on 7/31and to start full operation after test-run) and desalination unit (8 units to be installed by Oct., 2 units installed on 8/1, started test-run on 8/2, started running on 8/7) in progress.                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Storage / management of sludge waste etc.                                                                                                                                                                                                                                                                                                                                                                                                                                | -Sludge waste generated from the high-level radioactive water processing facility has been properly managed.<br>-Facility for storing sludge waste is to be built.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Securing storage place                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -Storage capacity of 14800m3 (10,000m3 + 4,800m3)for highly radioactive wastewater are secured by using the Centralized Radiation Waste Treatment Facility as water storage place.<br>-Work for installing underground tank for high level radioactive wastewater in progress (2,800m3 to be installed at the end of Aug., 7,200m3 to be installed afterwards)<br>-Storage tanks to receive processed, low to middle level radioactive wastewater with the capacity of approx. 33,000m3 installed (~7/14).<br>Additional capacity to be installed at 20,000m3/month                                                                                                                |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Preventing contamination of the sea, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                | -Silt fences installed. -Seawater circulatory purification system goes into full-scale operation. [6/13]<br>-Blocking the concrete tunnels outside the T/Bs completed [6/10], etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | Challenge                                           | Preventing overflow of high level radioactive waste water                                                                                                                                                                                                                                                                                                                                                                                                                | Highly radioactive wastewater treatment system should be operated in stable and effective manner to prevent wastewater overflowing to the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | meas                                                | Goal of STEP 2 (Jul. through Jan., 2012)                                                                                                                                                                                                                                                                                                                                                                                                                                 | Reduction of total amount of contaminated water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Increasing storage capacity<br>Decontaminating radioactive water                                                                                                                                                                                                                                                                                                                                                                                                         | -18,400 tons(2,200 + 6,200 + 10,000) of tanks installed. 10,000 tons of Mega-Float prepared. 2,000 tons of receiving capacity to be secured.<br>-Decontamination with zeolite continued                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
| Ground water                                                          | Status                                              | Radioactive materials in the ground water                                                                                                                                                                                                                                                                                                                                                                                                                                | Radioactive iodine, I-131, cesium, Cs-134, 137, and Sr-89, 90 were detected from the subdrain, underground water collected and controlled in the facility, and the well water in the Fukushima Daiichi site. [4/7~]                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Goal of STEP 2 (Jul. through Jan., 2012)                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mitigation of contamination in the ocean (continuing from Step 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
| Radioactive materials in the atmosphere / soil                        | Status                                              | Scattering of radioactive materials to the outside of the facilities                                                                                                                                                                                                                                                                                                                                                                                                     | -Radioactive materials and radioactively contaminated debris scattered due to the hydrogen explosion occurred at Unit 1 and 3 R/Bs and other events.<br>-The release rate of radioactive materials from Unit 1 through 3 as of late June was estimated to be one billion Bq/h (Cs-134 and 137) at maximum. [TEPCO announced on 7/19]<br>-Exposure doses at the site boundary caused by radioactive substance currently being released was estimated to be 1.7 mSv/y at maximum on the assumption of the above release rate.<br>*Approx. one 2-millionth of the maximum emission rate on 3/15, approx. one 2,500th of the rate for 3/25-26, approx. one 290th of the rate for 4/4-6 |                                                                                                                                                                                                                                                 |                                                   |                                                                   | Survey map on the site: <a href="http://www.tepco.co.jp/en/nu/fukushima-np/f1/index3-e.html">http://www.tepco.co.jp/en/nu/fukushima-np/f1/index3-e.html</a><br>*The dose limit by reactor facilities at an outside of a nuclear power station is 1 mSv/y.                                                                                                 |                                                                           |                                                                                      |
|                                                                       |                                                     | R/B integrity                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Severely damaged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Partly opened                                                                                                                                                                                                                                   | Severely damaged                                  | Severely damaged                                                  |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | measures                                            | Goal of STEP 2 (Jul. through Jan., 2012)                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mitigation of dispersion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Dispersion of inhibitor                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Splaying dispersion inhibitor outside and inside the R/Bs and T/Bs completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Removal of debris                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Removal of debris using remote-controlled heavy machine in progress [4/10~]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Installing R/B cover                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Preparation work in progress [5/13~]<br>Installation work of the cover started [6/28~]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | —                                                                                                                                                                                                                                               | Designing<br>Preparation work in progress [6/20~] | Designing<br>Preparation work in progress [6/24~]                 | Covers for Unit 3 and 4 to be installed after Step 2                                                                                                                                                                                                                                                                                                      |                                                                           |                                                                                      |
|                                                                       | Tsunami, reinforcement, etc.                        | measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Goal of STEP 2 (Jul. through Jan., 2012)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Mitigation of further disasters                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Countermeasures against tsunami                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -Relocating emergency power sources to the upland [4/15] -multiplexing injection lines [-4/15]<br>-Deploying fire trucks etc. at the upland [-4/18] -Building temporary tide barriers [-6/30]                                                   |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Planning and implementation of reinforcement work of each unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Enough seismic capacity confirmed by structural assessment [5/28]                                                                                                                                                                               | Structural assessment in progress                 | Enough seismic capacity confirmed by structural assessment [7/13] | -Enough seismic capacity confirmed by structural assessment [5/28]<br>-Installation of supporting structure under the bottom of the pool completed [7/30]                                                                                                                                                                                                 |                                                                           |                                                                                      |
|                                                                       | various countermeasures for radiation shielding.    | Pipe work completed, pumping vehicle set [5/17], Maintaining facilities, Training of workforce done[6/16,17], Manuals developed and the system confirmed[6/30]                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
| Plant parameters                                                      | Reactor                                             | Reactor injection flow rate(m3/h) [8/9 11:00]                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.5                                                                                                                                                                                                                                             | 8.9                                               | —                                                                 | ■ “A”, ”B” shows the group of the redundant instruments<br>■ Reactor water level monitors to be calibrated. Unit 1 Ch.A done.[5/11]<br>Unit 2 Ch.A conducted.[6/22-24]<br>■ Primary parameters' trend is available at JANTI's HP: <a href="http://www.gengikyo.jp/english/shokai/special_4.html">http://www.gengikyo.jp/english/shokai/special_4.html</a> |                                                                           |                                                                                      |
|                                                                       |                                                     | Reactor water level (mm) [8/9 11:00]                                                                                                                                                                                                                                                                                                                                                                                                                                     | A:Below the lower end of gauge, B:-1650**, Mostly steady                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A:-1850, B:-2200<br>Mostly steady**                                                                                                                                                                                                             | A:-1800, B:-2200<br>Mostly steady**               | —                                                                 |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Reactor pressure (MPa) [8/9 11:00]                                                                                                                                                                                                                                                                                                                                                                                                                                       | A:0.023, B:-, Mostly steady Measured with temporary pressure indicator [6/4~]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A:0.025, B:-<br>Mostly steady                                                                                                                                                                                                                   | A:-0.183, B:-0.100<br>Mostly steady**             | —                                                                 |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | RPV temperature at feedwater nozzle (℃) [8/9 11:00]                                                                                                                                                                                                                                                                                                                                                                                                                      | 104.3<br>Mostly steady                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 109.6<br>Mostly steady                                                                                                                                                                                                                          | 115.2<br>Slightly going down                      | —                                                                 |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | RPV temperature at the bottom of the vessel (℃) [8/9 11:00]                                                                                                                                                                                                                                                                                                                                                                                                              | 93.7<br>Mostly steady                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 117.8<br>Mostly steady                                                                                                                                                                                                                          | 104.9<br>Slightly going down                      | —                                                                 |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | PCV                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Pressure of drywell (MPa) [8/9 11:00]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.1306<br>Mostly steady                                                                                                                                                                                                                         | 0.126<br>Mostly steady                            | 0.1015<br>Mostly steady                                           |                                                                                                                                                                                                                                                                                                                                                           | —                                                                         | **Continuously monitoring the status                                                 |
|                                                                       | Pressure of suppression pool (MPa) [8/9 11:00]      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.110<br>Mostly steady                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Below the lower end of gauge<br>Instrument failure                                                                                                                                                                                              | 0.1841<br>Mostly steady                           | —                                                                 |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | Pool                                                | Water temperature of SFP                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Instrument failure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35.0℃ [8/9 11:00]                                                                                                                                                                                                                               | 32.8℃ [8/9 11:00]                                 | 42℃ [8/9 11:00]                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       | High level accumulated water                        | Stored volume[8/2]                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17,240m3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 27,500m3                                                                                                                                                                                                                                        | 29,800m3                                          | 22,300m3                                                          |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Water level in T/B[8/9]                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OP.+4,920mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | OP.+3,602mm                                                                                                                                                                                                                                     | OP+3,566mm                                        | OP.+3,577mm                                                       | OP.: Onahama Bay mean sea level<br>Near-term target: OP. +3,000mm*4                                                                                                                                                                                                                                                                                       |                                                                           |                                                                                      |
|                                                                       |                                                     | Total stored volume[8/2]                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Approx. 96,920m3 (Approx. 120,770m3 including the wastewater transferred to the Centralized Radiation Waste Treatment Facility)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
|                                                                       |                                                     | Total volume of processed water[8/2]                                                                                                                                                                                                                                                                                                                                                                                                                                     | Approx. 35,300m3 decontaminated (Approx. 12,500m3 desalinated*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |                                                   |                                                                   | *Just for reference as the reading of level monitor of the desalinated water tank was not stable.                                                                                                                                                                                                                                                         |                                                                           |                                                                                      |
|                                                                       | Environmental effect in the vicinity of the station |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -Air dose rate: 5-108 μ Sv/h at the NPS border (Monitoring Post), 320 μ Sv/h at the south side of the office building, 33 μ Sv/h at the main gate, 12 μ Sv/h at the wet gate [8/10 09:00]<br>-Some radioactive materials (I, Cs, Pu, Am Cm and Sr) has been detected in the soil sampled at the site.<br>Radioactive materials have been detected in samples collected from underground water and seawater at or near the site.<br>-Sr-89, 90 exceeding the regulatory limit have been detected from the seawater sampled on 5/16 near the seawater intake.                                                                                                                        |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |
| Radiation exposure of the workers                                     |                                                     | TEPCO has been examining radiation exposure of some 7,500 workers who worked at the plants. Intermediate result of this examination as of 7/29 is as follows.<br>108 workers received more than 100mSv. (100-150mSv: 86 workers, 150-200mSv: 14 workers, 200-250mSv: 2 workers, 250mSv-: 6 workers) Definite exposure doses of 6 workers who received more than 250mSv are distributed from 309 to 678mSv.<br>*The allowable emergency limit for radiation doses: 250mSv |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |                                                   |                                                                   |                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                      |

- \*1 TEPCO's analysis [announced on 5/15,23]
- \*2 TEPCO judged that most spent fuels were not damaged in the Unit 2 and 4 SFPs based on the detailed analysis of the radioactive materials in the pool water. [5/31]
- \*3 Rough estimate by TEPCO [announced on 5/31]
- \*4 TEPCO set the target so as to reduce the risk of the discharge of the overflowed water into the sea and the leak to the underground water.

[Source]  
Government Nuclear Emergency Response Headquarters: News Release,  
Press conference  
NISA: News Release, Press conference  
TEPCO: Press Release, Press Conference

[Significance judged by JAIF]  
:Low  
:High  
:Severe (Need immediate action)

[Progress of countermeasures]  
: Completed  
: Under construction  
: To be done (including studying and manufacturing)

[Abbreviations]  
SFP: Spent Fuel Storage Pool  
EDG: Emergency Diesel Generator  
RPV: Reactor Pressure Vessel  
PCV: Primary Containment Vessel  
R/B: Reactor Building  
T/B: Turbine Building  
RW/B: Radioactive Waste Disposal Building  
RHR: Residual Heat Removal system  
CST: Condensate water Storage Tank  
Hx: Heat exchanger  
NPS: Nuclear power station