Environmental effect in the vicinity of the station

- Plant parameters
  - Current status of the plant and the progress of countermeasures taken
  - Radiation exposure of the workers

Goal of STEP 1 (April through June)
- Measures
  - Securing heat exchange function
  - Flooding of PCV after sealing leaks
  - Cooling by maximum injection rate
  - Establishment of circulation function of radioactive water treatment process facility starts its operation

Secure radiation dose exposure of the workers
- In service -> Shutdown

Tunnel ceiling
- Cooling water temperature
- Water temperature at the exit of the T/B
- Radiation dose on the T/B

Strengthening the reaction vessel
- Reactor pressure
- Pressurizer pressure
- RPV temperature at the bottom of the vessel (C/T:110 ℃)

Preventing radiation exposure
- Radiation dose on the T/B
- Radiation dose on the RW/B

Tecnu loss
- Accumulated water in the facilities
- Radiation dose at water surface

Plant status when struck by the earthquake
- No power supplied
- Shutdown
- Dropped due to the earthquake

Main information
- No. of spent fuel pools in the reactor
- No. of spent fuel stored in the RPV
- No. of nuclear fuel stored in the reactor
- Plant type

Site conditions
- Radioactivity
- Radioactivity
- Radiation dose on the T/B
- Radiation dose on the RW/B

Table of measured parameters
- Top level
  - Temperature
  - Pressure
  - Radiation level
  - Density
  - Flow rate

Environmental monitoring
- Air dose rate
- Water dose rate

Survey map on the site:

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]

**Significance judged by JAIF**

- **Low**
- **High**
- **Severe (Need immediate action)**

**Progress of countermeasures**

- **Completed**
- **Under construction**
- **To be done (including studying and manufacturing)**

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**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

**[Source]**

- NISA: News Release, Press conference
- TEPCO: Press Release, Press Conference

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