

# Conditions at the Fukushima Daiichi Nuclear Power Station after the earthquake on March 20 (Continued report)

## 【Earthquake data】

- Time/date: Around 6:09 PM, March 20
- Epicenter: Off the coast of Miyagi Prefecture
- Unit 6 reactor building foundation mat acceleration (preliminary results): (horizontal) 38.0gals (vertical) 30.7gals
- Siting community seismic intensity: 5-Lower (Okuma Town, Futaba Town)

## 【Power station conditions immediately following the accident】

- Spent fuel pool cooling systems, reactor cooling water injection systems→ Continued operation
- Nitrogen gas isolation system operation → Operation continues without issue (On non-standby since prior to the earthquake (C))
- Accumulated water transfer equipment/water treatment systems  
→ Manual shutdown, accumulated water transfer equipment put back into operation on March 21 following inspection, other equipment to be inspected after March 22.
- Unit 5 spent fuel pool, Unit 6 spent fuel pool, common pool → No abnormalities, no sloshing
- Unit 1~6 equipment plant parameters, accumulated water transfer systems/water treatment system parameters  
→ No significant fluctuations
- Monitoring posts, site border and on-site dust monitors, Onsite dose rate indicators → No significant fluctuations
- On-site drainage channel monitors, seawater dose monitor indicators → No significant fluctuations
- Containers etc. waste storage areas → Some containers in the rubble storage area had fallen over or were leaning as result of the earthquake on February 13  
No new abnormalities found with rubble containers in the temporary storage area (AA area) (March 21)

<Announced on March 22>

At 9 AM, March 26, we have not found any abnormalities such as equipment abnormalities or water leaks. We will continue to monitor conditions carefully and will quickly notify you if an abnormality is discovered.

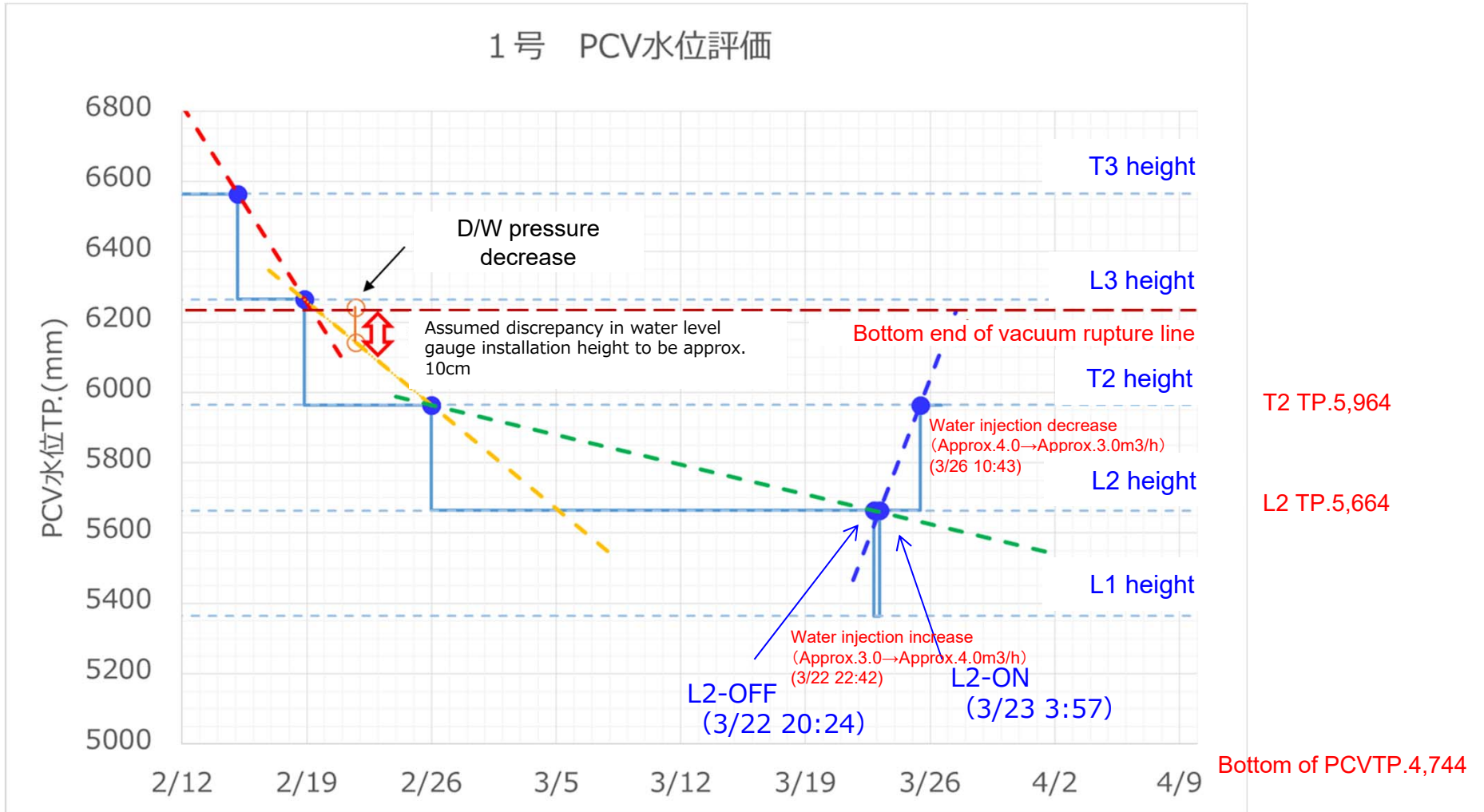
# Conditions after the earthquake (Continued report)

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## Water level inside the Unit 1 primary containment vessel

- As of March 20, the water level inside the Unit 1 primary containment vessel (PCV) is between temperature gauge T2 (T.P.+5,964mm) and water level gauge L2 (T.P.+5,664mm).  
(The elevation of the bottom of the primary containment vessel is T.P.+4,744mm)
  - \* When the earthquake occurred, the contact point of the L2 water level gauge inside the Unit 1 primary containment vessel temporarily shifted (for several seconds), but immediately returned to its original location.  
This was a temporary event and did not indicate a drop in primary containment vessel water level, but rather movement of the water surface caused by the earthquake.  
<Announced on March 22>
- On March 22, PCV water level fell below water level gauge L2, so on the same day the amount of cooling water being injected was increased (approx. 3.0m<sup>3</sup>/h→approx. 4.0m<sup>3</sup>/h) in order to stably monitor PCV water level. As a result, the water level exceeded L2 on March 23.
- Since the Unit 1 PCV water level has now exceeded the installation location of the T2 temperature gauge, today (March 26) at 10:43 AM, the amount of cooling water being injected into the reactor was decreased (4.0m<sup>3</sup>/h→3.0m<sup>3</sup>/h)
- For the time being, the amount of cooling water injected will be increased as necessary in order to stably monitor PCV water level and confirm that water levels can be controlled. And, we will monitor changes in PCV water level between L2~T2.

# Conditions after the earthquake (Continued report)



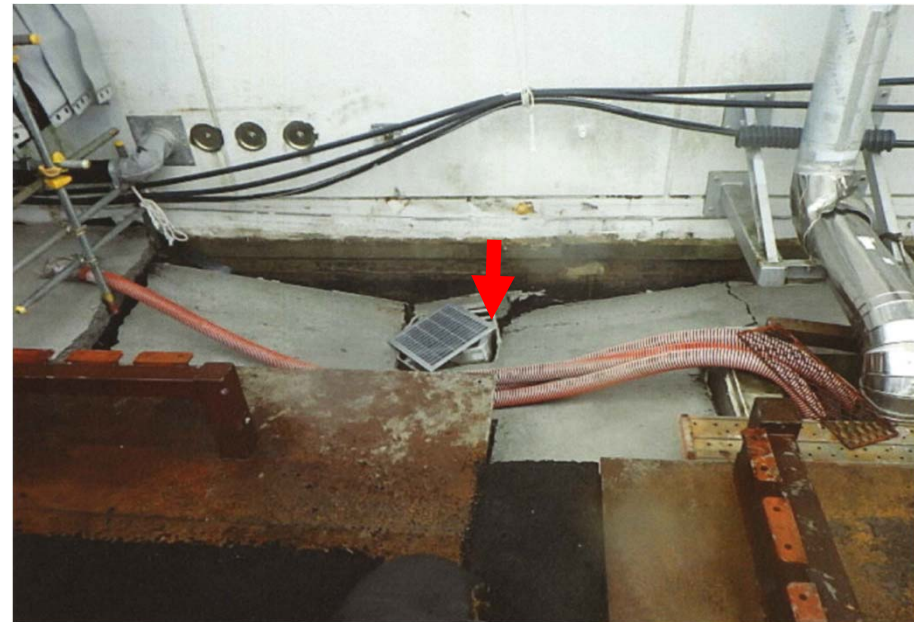
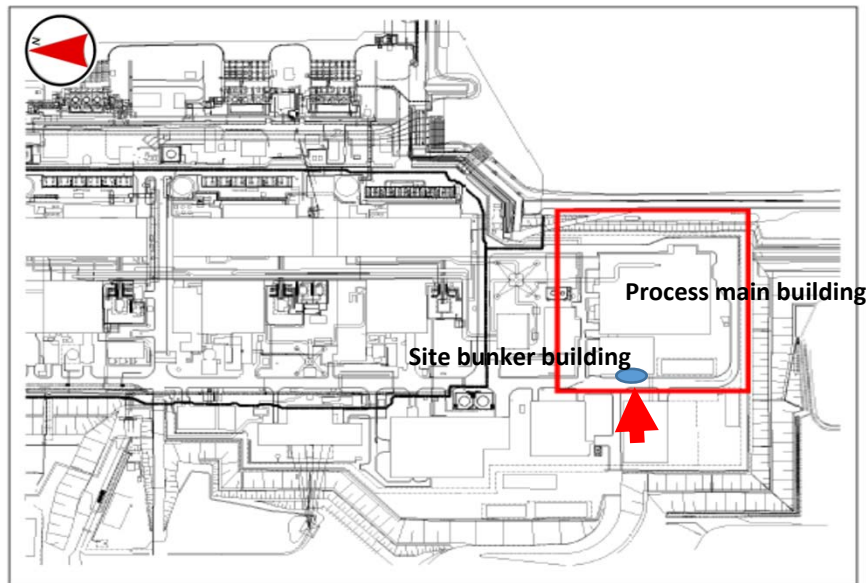
# Conditions after the earthquake

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## Subsidence on the west side of the site bunker building

Date of occurrence (date discovered): Around 11 AM, March 21

Overview: A field patrol noticed ground subsidence near the site bunker building on the west side. Slight subsidence was found after the earthquake on February 13, but the subsidence that occurred after this earthquake resulted in fractures to the concrete surfacing around the building. No abnormalities were found with pipes in the vicinity and the aforementioned fracture will be repaired in future. The aforementioned area was also made off-limits for safety reasons.

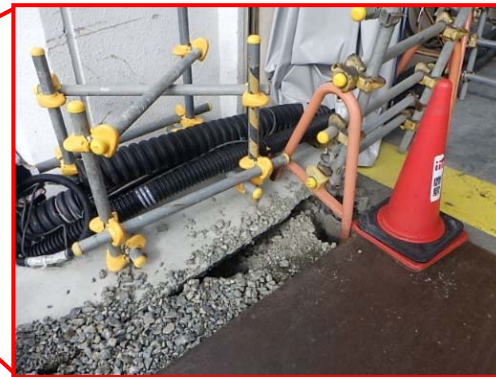


<Announced on March 22>

# Conditions after the earthquake (Continued report)

## Conditions in the vicinity of the site bunker building and future repair plans

- The following changes have been seen in conjunction with the earthquakes on February 13 and March 20, and rainfall thereafter.
- Rainfall has widened the hole underneath the steel plates in front of the site bunker building's large freight entrance, and will be repaired starting on March 29.
- Other locations will also be repaired after conducting a detailed examination of the conditions (at current time these conditions are not hindering decommissioning work)

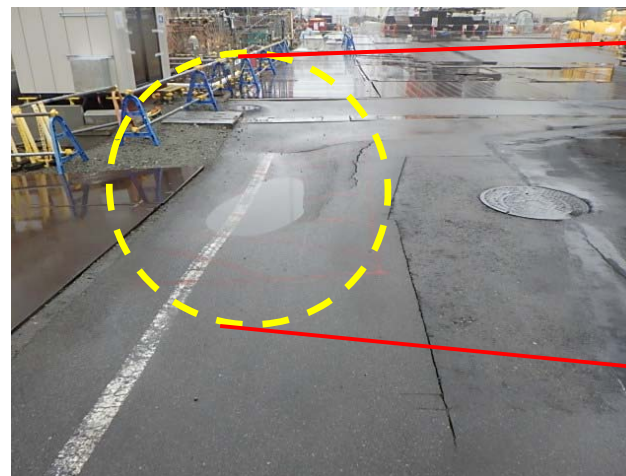


Hole underneath steel plates

① Near the road on the west side of the site bunker building



② Road on the north side of the site bunker building



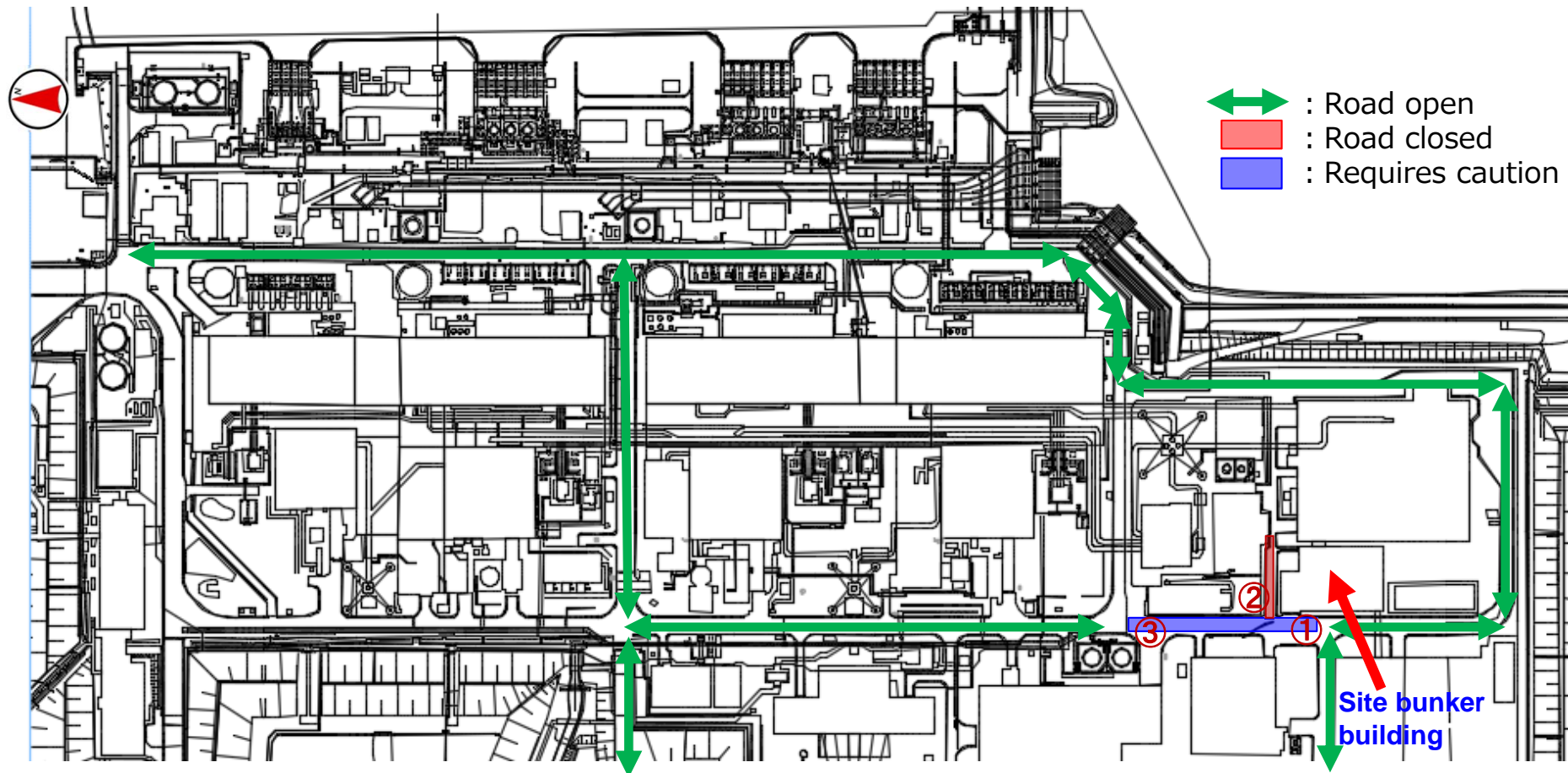
③ In front of the large freight entrance on the east side of the common pool



# Conditions after the earthquake (Continued report)

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## Current road restrictions



# Conditions after the earthquake (Continued report)

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## **Blown fuse in the Unit 3 fuel removal cover area radiation monitor (Ch.1)**

Date of occurrence (date discovered): Around 6:12 PM, March 20 (time when the equipment malfunction alarm sounded)

Overview: TEPCO employees confirmed the sounding of the equipment malfunction alarm for the Unit 3 fuel removal cover area radiation monitor (Ch.1).

Since no work was being conducted on the Unit 3 operating floor and the same monitor (Ch. 2) showed no significant fluctuations, a field inspection was conducted the day after the earthquake (March 21).

On March 21, a field inspection of the monitor confirmed that the monitor was fine and that there was a problem with transmission. On March 22, a field inspection of the detector found that a fuse for the fiber-optic transmitter for the detector on the aforementioned monitor had blown.

The aforementioned fuse was replaced on the same day and function was restored to the aforementioned monitor.



①Area radiation monitor detector box  
(Photograph taken prior to the earthquake, the aforementioned fuse is located in the area of the red circle)



②Aforementioned blown fuse  
(arrow indicates severed element)