

Fukushima nuclear plant operator: Seismometers were broken

February 22 2021, by Mari Yamaguchi



This aerial photo shows the Fukushima Dai-ichi nuclear power plant operated by Tokyo Electric Power Company (TEPCO) in Okuma town, Fukushima prefecture, northeastern Japan, on Feb. 14, 2021, a day after a strong earthquake. TEPCO says both of two seismometers at Unit 3, one of three melted reactors, had been out of order since last week and were not able to collect data when the powerful earthquake struck the area on Feb. 13, calling into question if the company's risk management has improved since the disaster. (Hironori Asakawa/Kyodo News via AP)



The operator of the wrecked Fukushima nuclear power plant said Monday that two seismometers at one of its three melted reactors have been out of order since last year and did not collect data when a powerful earthquake struck the area earlier this month.

The acknowledgement raised new questions about whether the company's <u>risk management</u> has improved since a massive earthquake and tsunami in 2011 destroyed much of the plant.

The malfunctioning seismometers surfaced during a Nuclear Regulation Authority meeting on Monday to discuss new damage at the plant resulting from a magnitude 7.3 quake that struck the region on Feb. 13. Cooling water and pressure levels fell in the Unit 1 and 3 reactors, indicating additional damage to their primary containment chambers.

The operator, Tokyo Electric Power Co., has repeatedly been criticized for coverups and delayed disclosures of problems at the plant.

Regulatory officials asked TEPCO at the meeting why it did not have seismological data from the Unit 3 <u>reactor</u> for Saturday's quake, and utility officials acknowledged that both of its seismometers had failed—one in July and the other in October—and had never been repaired.

TEPCO also said that seismometers at all but two of the reactor buildings that survived the 2011 disaster were submerged by water from the tsunami and have never been replaced.





This Sept. 4, 2017, aerial file photo shows Fukushima Dai-ichi nuclear power plant reactors, from bottom at right, Unit 1, Unit 2 and Unit 3, in Okuma town, Fukushima prefecture, northeastern Japan. Its operator Tokyo Electric Power Company (TEPCO) says both of two seismometers at Unit 3, one of three melted reactors, had been out of order since last week and were not able to collect data when a powerful earthquake struck the area on Feb. 13, 2021, calling into question if the company's risk management has improved since the disaster. (Daisuke Suzuki/Kyodo News via AP, File)

During Monday's meeting, regulatory officials said they were concerned



about the declining water levels and pressure in the Unit 1 and 3 primary containment chambers because of the possibility that the quake had expanded the existing damage or opened new leakage paths, and urged the utility to closely check for any increased radiation levels in the ground water surrounding the reactor buildings.

TEPCO said no abnormality has been detected in water samples so far.

New damage could further complicate the plant's already difficult decommissioning process and add to the large amounts of contaminated water being stored at the plant.

Since the 2011 disaster, cooling water has been escaping constantly from the damaged primary containment vessels into the basements of reactor and turbine buildings, where the volume increases as groundwater seeps in. The water is pumped up and treated, then part of it is reused as cooling <u>water</u>, while the rest is stored in about 1,000 tanks.

TEPCO initially reported there was no abnormality at the plant from Saturday's earthquake. But on Monday, it said about 20 of the tanks had slid slightly due to the quake, a storage container carrying radioactive waste had tilted, and asphalt pavement at the plant was cracked.

© 2021 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed without permission.

Citation: Fukushima nuclear plant operator: Seismometers were broken (2021, February 22) retrieved 27 April 2024 from

https://techxplore.com/news/2021-02-fukushima-nuclear-seismometers-broken.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.