

Hamaoka Nuclear Power Station Units 3 and 4: Overview of Construction about Earthquake Countermeasures

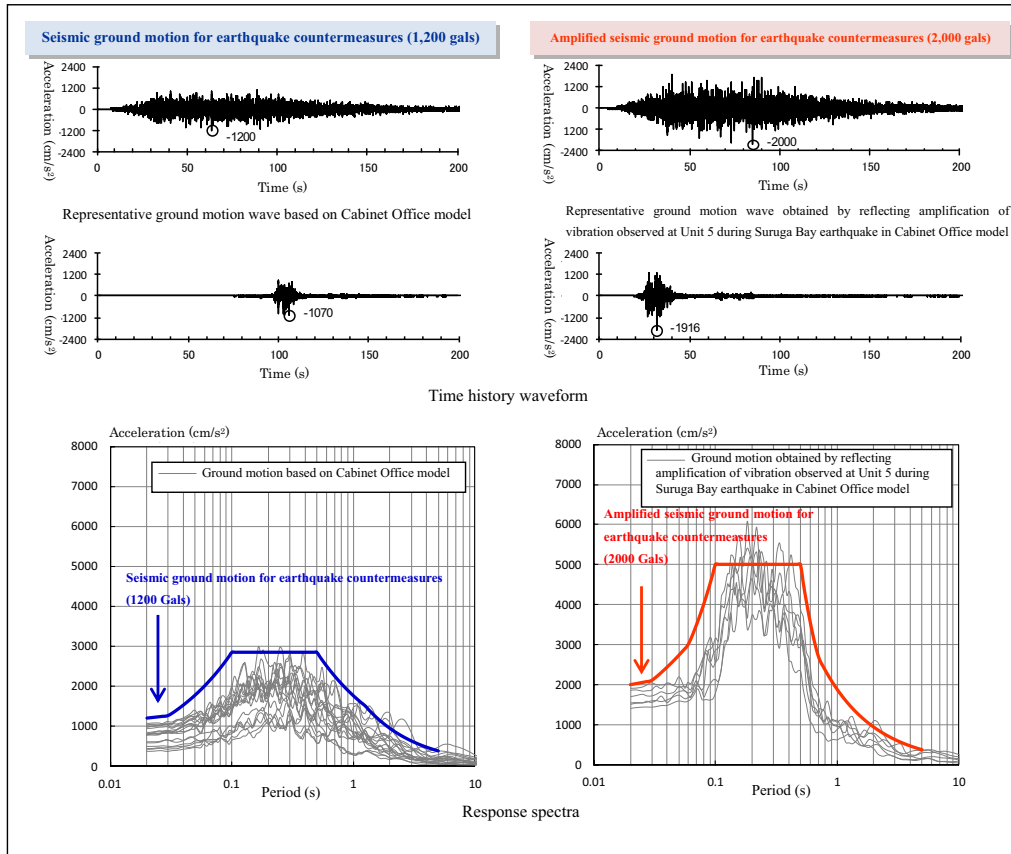
Chubu Electric Power has proceeded with the examination of concrete plans for construction work related to further earthquake countermeasures targeting all equipment and facilities of Units 3 and 4, Hamaoka Nuclear Power Station, based on the status of Cabinet Office reviews and new regulatory requirements. (Reported Friday, April 26, 2013)

We have now decided on construction plans for earthquake countermeasures to be introduced to Hamaoka Units 3 and 4 (and shared facilities). In future, we will move ahead with examination of a concrete work plan for Unit 5.

1. Setting seismic ground motion for earthquake countermeasures

We set the seismic ground motion for earthquake countermeasures based on the source fault model generating strong ground motion formulated by the Cabinet Office's Committee for Modeling a Nankai Trough Megaquake (termed the "Cabinet Office model" below).

Specifically, based on the ground motion produced by the Cabinet Office model (a maximum figure of around 1,000 gals), we set a figure of 1,200 gals, exceeding the response spectra of the Cabinet Office figure, as our seismic ground motion for earthquake countermeasures. Similarly, based on the ground motion obtained by reflecting the amplification of vibration observed at Unit 5 during the Suruga Bay earthquake in the Cabinet Office model (a maximum figure of around 1,900 gals), we set a figure of 2,000 gals as our amplified seismic ground motion for earthquake countermeasures.



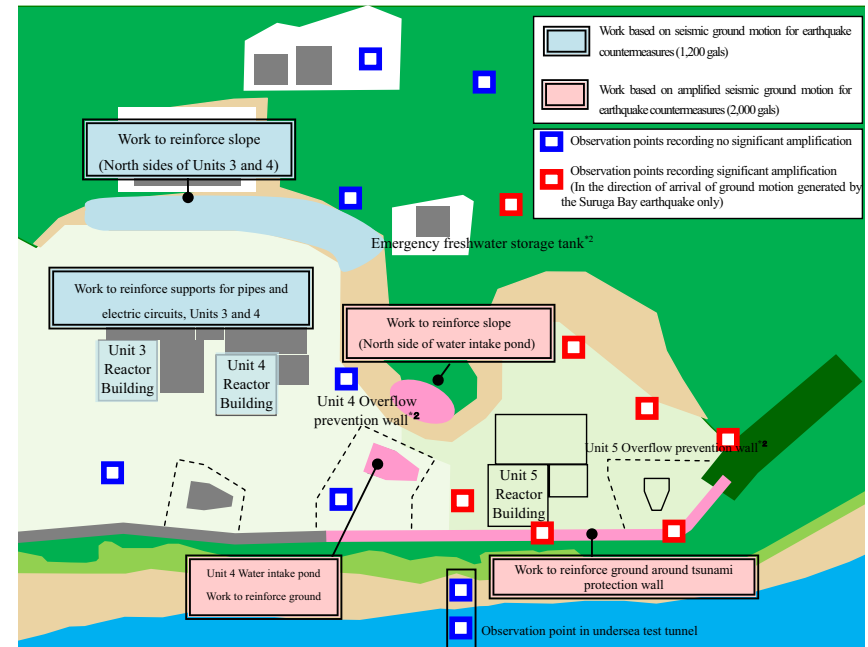
2. Work to be performed

We used the seismic ground motion for earthquake countermeasures (1,200 gals) to evaluate the requirement for conducting work on structures important to earthquake-resistant design.*¹ As a result of these considerations, we have decided to perform work including work to reinforce supports for pipes and electric circuits. In addition, taking into consideration records from seismic observation points within the grounds of the station, we have decided to perform work to reinforce facilities including the tsunami protection wall at Unit 5 and the Unit 4 water intake pond based on the amplified seismic ground motion for earthquake countermeasures (2,000 gals).

Concrete details of the construction work plans are shown below. We have verified that there is no necessity for the implementation of earthquake countermeasures in relation to main structures including the reactor buildings, the pressure vessels, and the containment vessels. (For details, please refer to reference materials.)

*¹The reactors themselves, associated pipes, equipment designed to shut down and cool the reactors, equipment designed to seal in radioactive substances, fuel-related equipment, tsunami protection facilities, flooding-prevention facilities, facilities for response to severe accidents and other major events, power sources and electrical equipment related to these facilities, and buildings and structures housing these facilities and equipment

	Nature of work to be performed (For details, see attachment)
Unit 3	Work to reinforce supports for pipes and electric circuits
Unit 4	Work to reinforce supports for pipes and electric circuits Work to reinforce ground around water intake pond
Shared facilities/areas	Work to reinforce ground around tsunami protection wall Work to reinforce slopes within the station site



*²We will ensure earthquake resistance up to 2,000 gals, the amplified seismic ground motion figure for earthquake countermeasures, in the overflow prevention walls and emergency freshwater storage tanks at Units 4 and 5.