September 2, 2011

Tokyo Electric Power Company

Continuous scientific/technical knowledge collection on earthquake-proof safety of nuclear power plants and efforts on improvement of assessment.
(2011 report about new knowledge regarding Tohoku-Chihou-Taiheiyou-Oki Earthquake)
(Summary)

We report the result of summarization about new knowledge by collecting and analyzing literature regarding the Tohoku-Chihou-Taiheiyou-Oki Earthquake such as national institutes' reports, academic research papers and publications like magazines and overseas information which are published until around the end of July.

1. Study item

The existing collection method of new scientific/technological knowledge is to pick up confirmed information which should be reflected to earthquake-proof design (including evaluation of safety against Tsunami) practically. However, regarding the Tohoku-Chihou-Taiheiyou-Oki Earthquake, many discussions and studies are continuing in order to be established as scientific/technological knowledge.

In light of the situation, in this report we summarized "the issues which are more likely to be needed to be reflected to earthquake-proof design etc. in the future" which are from the result of collection and analysis of literature regarding the Tohoku-Chihou-Taiheiyou-Oki Earthquake.

2. Study result

As a result of studying and summarizing about the information about the Tohoku-Chihou-Taiheiyou-Oki Earthquake, We selected the following 2 issues as new scientific/technological knowledge regarding the earthquake-proof design of Fukushima Daiichi and Fukushima Daini Nuclear Power Stations. The following table shows the number of literature which includes the contents relating to these issues.

Table The number of literature which includes the contents relating to these issues

New scientific/technological knowledge	Number of literature
Massive earthquake-linked around the Pacific Ocean off East Japan	33
New created fault by the influence of Tohoku-Chihou-Taiheiyou-Oki Earthquake	43

We will continue to watch carefully the trend of relating knowledge, and reflect to the approach for improvement of earthquake-proof safety of nuclear power stations as necessary.

End