Regarding a Response That Takes into Account the Error in Configuring the Seismic Response Analysis Model in the Seismic Safety Assessment of the Unit 2 Reactor Building at Fukushima Dai-ni Nuclear Power Station (Direction)

Ministry of Economy, Trade and Industry
Nuclear and Industrial Safety Agency
NISA-151b-11-5
NISA-161b-11-6
NISA-181b-11-6
NISA-191b-11-5

On August 11, 2011, the Nuclear and Industrial Safety Agency (hereinafter referred to as “NISA”) received a report from Tokyo Electric Power Co., Inc. (hereinafter referred to as “TEPCO”) related to the seismic safety assessment directed by the September 20, 2006 document “Regarding the Implementation of Seismic Safety Assessment of Existing Commercial Power Reactor Facilities in Accordance with Revisions to ‘Regulatory Guide for Reviewing Seismic Design of Nuclear Power Reactor Facilities’ and Other Guidelines” (09.19.2006 NA 6). This report outlined an error in some of the configurations for a seismic response analysis model of the Unit 2 reactor building at Fukushima Dai-ni Nuclear Power Station (NPS).

According to this report, in the seismic response analysis model for in-reactor structures, the building side should have been designated the master node and the reactor base side the slave node, in connecting the nodes on the reactor building and the bottom of the reactor base using multi-point constraint. Instead, the building side was designated the slave node and the reactor side the master node, resulting in a seismic response analysis model that did not yield a correct analysis result.

Due to TEPCO’s error in configuring the seismic response analysis
model for the seismic safety assessment of the Unit 2 at Fukushima Dai-ni NPS, NISA has issued instructions to nuclear power operators who subcontracted their seismic safety assessment analysis to the same firm that TEPCO contracted, to investigate whether similar errors exist, and report the results by August 26.