Ministry of Economy, Trade and Industry

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Nuclear and Industrial Safety Agency
Ministry of Economy, Trade and Industry
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Regarding the Seismic Measures for Switching Yard related to Securing Reliability of External Power Supply for Nuclear Power Stations, etc. (Directions)

The Nuclear and Industrial Safety Agency (“NISA”) received from General Electricity Utilities, etc., the reports on May 16, 2011 related to NISA’s directions in the 04.15.2011 NA No. 3 dated April 15, 2011 regarding the securing reliability of external power supply for nuclear power stations and reprocessing facilities (“NPS, etc.”). Today, NISA conducted evaluation of the subject reports.

In addition, NISA received a report from the Tokyo Electric Power Co. Inc (“TEPCO”) on May 23, 2011 regarding the cause for the damage related to the electric equipment inside and outside Fukushima Dai-ichi Nuclear Power Station (“NPS”) according to the 05.16.2011 NA No. 3 dated May 16, 2011. According to this report, the circuit breakers, etc., were damaged at the switching yards related to Units 1 and 2 of the Fukushima Dai-ichi NPS due to the earthquake.

Considering the above assessments and reports, NISA requests General Electricity Utilities, etc., to implement the following items from the perspective of securing reliable external power supply. Moreover, NISA requests submission of reports regarding the state of implementation for these measures by July 7, 2011.
Required Items

1. Assess the impact of the possibility for the occurrence of equipment falling over or damage, etc. causing malfunctions in the electric equipment of the switching yards, etc. at General Electricity Utilities’ NPS, etc., in consideration of the analysis results of the earthquake records observed at TEPCO’s Fukushima Dai-ichi NPS due to the 2011 Off the Pacific Coast of Tohoku Earthquake. As an aside, for these assessments, setting for the seismic force at each NPS, etc. at the surface level as a standard related to the switching yards, etc., analyze the stress occurring at the electric equipment, and evaluate it by comparison with the structural strength of the subject electric equipment.

2. If by the assessment in above-described 1, it is determined that a possibility for the occurrence of equipment falling over or damage, etc. causing malfunctions exists, decide the countermeasures against earthquakes for the subject electric equipment.