The Nuclear and Industrial Safety Agency (NISA) presented “The Concept of Securing the Medium-Term Safety’ for Units 1 to 4 at Fukushima Dai-ichi Nuclear Power Station (NPS), Tokyo Electric Power Co., Inc. (TEPCO)” (“the concept of securing the medium-term safety”) with regard to the basic targets and requirements for securing safety during the period until the operation is initiated for reactor decommissioning following the completion of Step 2 of the “Roadmap towards Restoration from the Accident” (medium-term: within about three years) dated October 3, 2011 to TEPCO, requesting the company to conform to it. In addition, on the same day, NISA requested TEPCO to submit a report on the safety assessment results, as well as a facility operation plan based on the basic targets for facilities specified in “the concept of securing the medium-term safety”, pursuant to the provisions of Article 67, paragraph 1 of the Act on the Regulation for Nuclear Source Materials, Nuclear Fuel Materials and Reactors (“Nuclear Regulation Act”) (Act No. 166, 1957). In response to the request, on October 17, NISA received the “Report (Part 1)” from TEPCO on the facility operation plan for the equipment related to the circulating injection cooling system, which is one of the requirements for attaining the “cold shutdown condition” as part of the targets for Step 2. (Subsequently, NISA received revisions of the report on November 9 and December 6.)

NISA carefully evaluated the submitted “Report (Part 1)” in light of the opinions of experts, and confirmed that the reasonable measures were taken for the basic targets and requirements specified in the “the concept of securing the medium-term safety”.

This is to inform the public that today (on December 12) NISA reported the evaluation results to the Nuclear Safety Commission pursuant...
1. NISA established the basic targets and requirements for securing safety at Fukushima Dai-ichi NPS, TEPCO, during the preparation period (within about three years) until the operation is initiated for reactor decommissioning following the completion of Step 2 of the “Roadmap towards Restoration from the Accident at Fukushima Dai-ichi Nuclear Power Station, TEPCO” as “the concept for securing the medium-term safety” for TEPCO, and requested TEPCO to take deliberate actions accordingly.

2. Concerning the “concept of securing the medium-term safety”, it is required that the basic targets and requirements be conformed, which have been defined by NISA for the facilities of TEPCO, specifically to 1) control and mitigate the release of radioactive materials, 2) properly remove the decay heat, 3) prevent criticality, and 4) prevent hydrogen explosion. As to the equipment related to the circulating injection cooling system, which is one of the requirements for cold shutdown condition as part of the targets for Step 2, TEPCO submitted the report (Part 1) on October 17 to NISA (subsequently, TEPCO submitted revisions of the report on November 9 and December 6), and NISA held three hearings to obtain opinions from experts (on October 22, November 11, and December 9). (Already announced on December 7, 2011)

3. NISA carefully evaluated the reports submitted by TEPCO and confirmed the following points:
   1) Reliability is assured for the equipment related to the circulating injection cooling system by measures such as multiplexing.
   2) Abnormal events can be detected and alternate means are secured in case of the equipment shutdown.
   3) The risk of significant radiation exposure is not offered even in case of accident.

   In light of the above, NISA compiled the “Evaluation of the Report (Part 1) on the Facility Operation Plan based on the “Concept of Securing the Medium-Term Safety” for Units 1 to 4 at Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co., Inc.” (refer to the Appendix).

4. This is to inform the public that today (on December 12) NISA reported the “Evaluation of the Report (Part 1) on the Facility Operation Plan
based on the “Concept of Securing the Medium-Term Safety” for Units 1 to 4 at Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co., Inc.” to the Nuclear Safety Commission.

(Appendices)
- Evaluation of the Report (Part 1) on the Facility Operation Plan based on the “Concept of Securing the Medium-Term Safety” for Units 1 to 4 at Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co., Inc.
- Evaluation Results of the Medium-Term Safety Assurance of Circulating Injection Cooling System at Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co., Inc.

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