

(Attachment)

## **Outline of application for the permission for a change in reactor installation license regarding efforts to improve safety and reliability of Sendai Nuclear Power Station No.1, 2**

### **1 Establishment the facility for dealing with specific accident**

We will establish the facility for dealing with specific accident in response to the requirement, in the new regulatory standard enforced in July 2013, to establish the facility which has the capability to prevent damage of containment vessel needed for the times when the loss of the cooling functions and subsequent damage of the reactor due to the deliberate collision of an aircraft and other terrorism to the reactor facilities.

o The main equipments of facility for dealing with specific accident are as follows.

Facility for reducing the reactor coolant pressure boundary

Facility for cooling inside of reactor and containment vessel

Facility for preventing damage of containment vessel due to the excessive pressure

Facility for preventing damage of containment vessel due to the hydrogen explosion

Dedicated facility for supplying power to equipments of the facility for dealing with specific accident

Facility to operate equipments established as facility for dealing with specific accident

### **2 Establishment permanent direct current power equipment (established at each plant)**

We will establish the permanent direct current power equipment (the third system) in response to the requirement, in the new regulatory standard enforced in July 2013, to establish another power supply facility which has significant high reliability in addition to the same facility already established.

### **3 Change of the Emergency Response Center (shared by No.1, 2)**

We originally planned to establish the "Important Anti-seismic Building" which

“function of the Emergency Response Center” and “assist function”.

“Function of the Emergency Response Center” which is required in the new regulatory standard is satisfied by the “Alternate Emergency Response Center” which is operating. Also, we plan to establish “Earthquake Resistant Assist Building” which has assist function near the Response Center as voluntary measures, and change the name of “Alternate Emergency Response Center” to “Emergency Response Center”.

#### **4 Change of the receiving electricity system (shared by No.1, 2)**

We will increase the number of circuits from three to six for receiving electricity from the outside and renew the extra-high voltage switchyard to improve reliability.

facility name	the number of circuits	
	present	improved
500 thousand volts transmission lines	2	2
220 thousand volts transmission lines	1	4
the number of circuits	3	6

< Reference: The transitional measures of facility for dealing with specific accident and permanent direct current power equipment >

In Nuclear Regulatory Authority (NRA) in November 13, 2015, the revised proposal, the period of transitional measures (extension) will be set as 5 years from construction planning permission of main facilities, was submitted. This proposal will be executed in January 2016, after public comment.