Regarding the treatment of certain areas of the Seismic isolated building of the Fukushima Daiichi Nuclear Power Station as "Uncontrolled area"

1. Outline

Maintenance of the working environment is required for the steady implementation of the decommissioning of the nuclear power station hereafter. This time, in order to change the status of certain areas of the Seismic isolated building from "Controlled" to "Uncontrolled", as part of measures to improve the working environment, we implemented additional measures such as the removal of radioactive materials to reduce radiation dosage levels and prevent the spread of radioactive particles,.

2. Measures to reduce radiation dose levels in the Seismic isolated building and the effects (December, 2011~April, 2012)

iviain measures	Effects	
Sticking leady board to the inside wall	Reduction of radiation dose from emergency generators used just	Areas planned to be
Shielding ceilings and floors	after the accident	uncontrolled areas
12 with the leady materials		Before : average 1.6 μ S v /r (Locally: more than
Shielding the windows with the leady materials ③	Reduction of the radiation dose from outside	2.6 μ Sv/h ^{*2})
Air-conditioning equipment/filter replacement, removal of ducts ④	Removal of contaminated materials attached to the air-conditioning equipment itself	After : average 0.7 μ S v /h
Removal of concrete of the Rooftop, decontamination, shielding (5)	Removal of the contaminated materials carried by rain under the concrete, and the reduction of radiation dose levels from the outside	-
Installment of equipment such as gate monitor *36	Restriction of carrying the contaminated material in the uncontrolled area	

- * 1 : Annual radiation exposure under regular works (2,000 hours/year) : $3.2mSv \Rightarrow 1.4mSv$
- * 2 : It is required to be under 2.6 μ Sv/h to be treated as an uncontrolled area
- * 3 : Radiation monitoring to check if radiation materials are not attached





① Sticking lead boards to inside walls



③ Shielding of windows



5 Removal of roof concrete

3. Reference

Past measures to reduce radiation dose of Seismic Isolated Building (March 2011 – April 2012)

Major activities	Ef	fects
Installment of unit houses at the entrance of	Removal of contaminated materials	Around the round table
the Seismic Isolated Building	in the air	Before activities : $8.0 \sim 12.0 \mu Sv/h$
Installment of exhausters with charcoal filters		
Replacement of the floor material from the	Improvement of reducing radiation	
carpet to tiles which are easier to be cleaned $_{\!\scriptscriptstyle o}$	dosage and cleaning	
	contamination	After that areactivities : $5{\sim}3\mu$ Sv/h
Installment of lead shielding for windows etc.	Reduction of radiation dosage	
	levels from the outside	

In addition to the above activities, we will continue on with regular monitoring and wipe down areas that are highly contaminated.

April 26, 2012 Tokyo Electric Power Company



② Shielding of the floor



④ Removal of ducts



6 Installment of gate monitors