Survey result of damages to air-conditioning ducts etc. in the Reactor Building, Unit 4, Fukushima Daiichi Nuclear Power Station

<The sequence of events>

- At 6:12 am on March 15, an explosion occurred at Unit 4. It was possible that hydrogen generated in Unit 3 went through air-conditioning ducts of the emergency gas treatment system and flowed into the Reactor Building, Unit 4.
- On November 8, in order to investigate the status of explosion of the Reactor Building, Unit 4, we conducted a site survey, such as damage to the air-conditioning ducts in the Reactor Building.

<Date and time of the site survey>

From 2:30 pm to 4:30 pm on November 8, 2011 (Tue)

<Survey results>

- It was likely that the explosion at Unit 4 occurred mainly on the fourth floor of the Reactor Building because (i) the floor on the fifth floor was pushed up and the floor on the fourth floor was pushed down and (ii) wire meshes attached to inlets of the air-conditioning on the fifth floor were bent to the reverse direction of the normal air flow.
- On the fourth floor of the Reactor Building, as there were no air-conditioning ducts at the original place of installation and instead, numerous rubbles presumably from airconditioning ducts were scattered, it was possible that the explosion occurred around the air-conditioning ducts.





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The status of the 4th floor, R/B, Unit 4



The status of the 3rd floor, R/B, Unit 4



(15) Rubbles from air-conditioning ducts

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