News Release

Ministry of Economy,
Trade and Industry (METI)

PRI-07-26

Press Release Information	Nuclear and Industrial Safety Agency (NISA), Ministry of Economy, Trade and Industry (METI)
Consequences of "the Niigataken Chuets-oki Earthquake in 2007" at Kashiwazaki-Kariwa Nuclear Power Station, Tokyo Electric Power Company	

July 17, 2007

NISA/METI

On July 17, 2007, Nuclear and Industrial Safety Agency (NISA) received information from Tokyo Electric Power Company on the situation as of 5.00 PM of Kashiwazaki-Kariwa Nuclear Power Station, as shown below.

(The situation of Kashiwazaki-Kariwa Nuclear Power Station)

At 5.50 PM today, Tokyo Electric Power Company released information on the situation of Kashiwazaki-Kariwa Nuclear Power Station, including oil leakage from a generator (already reported),leakage of radioactive materials to outside of the controlled area (already reported) and falling down of the solid waste drums.

(Actions of NISA)

1. Today, NISA dispatched four officials of NISA including Mr. Shigeharu Kato, Director General to the NPP. Together with the Nuclear Safety Inspector on the site, they are engaging themselves in the investigations on the identified incidents; oil leakage from the generator, leakage of radioactive materials to outside of the controlled area, falling down of the solid waste drums.
2. Although iodine and other particulate radioactive materials has been detected during the regular measurement of the main stack of Unit 7, NISA has confirmed the adequacy of the assessment by Tokyo Electric Power Company who concluded that there is no impacts on the surrounding environment. It was also confirmed that the results of measurement of the main stack of unit 1 to unit 6 were under the detection limit. NISA required Tokyo Electric Power Company to make its best efforts to conduct complete investigation on the relation between this event and the earthquake.
3. For falling down of the drums of solid waste drums, NISA required Tokyo Electric Power Company to investigate its actual condition and evaluate the event as soon as possible.

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Appendix

Impacts due to Niigataken Chuetsu-oki Earthquake in 2007 (as of 5:00 pm)

July 17, 2007
Tokyo Electric Power Company

We would like to inform you the current plant status of Kashiwazaki-Kariwa Nuclear Power Station as of 5:00 pm on July 17, 2007 as summarized in the attachment.

Attachment:
Plant Status of Kashiwazaki-Kariwa Nuclear Power Station after Niigataken Chuetsu-oki Earthquake in 2007

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Plant Status of Kashiwazaki-Kariwa Nuclear Power Station after Niigataken Chuetsu-oki Earthquake in 2007

Information on KK plant(all units were shut down after the earthquake)

Name of Unit	Before Earthquake	Contents of Damages	Remarks
KK-1	Outage (under periodic inspection)	Oil leakage from an excitation transformer. It had dropped from the base concrete.	Amount of leaked oil is unknown. Oil is slightly still leaking.
		Displacement of a duct connecting with the main stack was found. The details are under investigation.	Amount of displacement is unknown. Leakage of radioactivity is under investigation.
		The power supply for the double isolation doors of the reactor building was lost, and the doors have been kept open.	There is no deviation from the operational limiting condition owing to a cold standby shut down state.
		Water leakage was found in the area from a door of the controlled area of emergency diesel generator (A) room to the vicinity of the non-controlled area	The amount of leaked water is about 4 liters. The leakage was terminated. No radioactivity was detected.
		The fire service water system piping was damaged and water about 40cm deep at 5th basement floor was found.	The amount of leaked water is about 1670m^3. Leakage was terminated. No radioactivity was detected.
		Displacement was found at the portion connecting unit auxiliary transformers 1A /1B and isolated phase buses. Foundation bolts were broken.	The amount of displacement is unknown (under investigation)
		The power supply for a control panel in the control room of the liquid radioactive waste processing system was lost.	No adverse effects on the plant monitoring.
		A water puddle was found on the operating floor in the reactor building.	
KK-2	In start-up operation	Oil is still leaking from the lower flange part of a main transformer. The anchor bolts had been broken.	Amount of leaked oil is unknown. Oil extraction is under consideration.
		Displacement of a duct connecting with a main stack was found. The details are under investigation.	Amount of displacement is unknown. Leakage of radioactivity is under investigation.
		A duct for the power supply cable installed at the foundation of an excitation transformer was displaced horizontally.	Amount of displacement is unknown.
		A screen wash pump of the sea water intake facility was inoperable.	
		Blowout panel in the turbine building had departed.	No radioactive material release
		Oil leakage in the oil tank room for turbine driven reactor feedwater pump (B)	The amount of leakage is about 800 liters. The leakage was terminated.
		A water puddle was found on the operating floor in the reactor building.	

Name of Unit	Before Earthquake	Contents of Damages	Remarks
KK-3	In operation	At 10:15 on July 16, a fire occurred at the unit auxiliary transformer 3B. It was extinguished at 12:10.	Already announced on July 16.
		Displacement of a duct connecting with a main stack was found. Detail is under investigation.	Amount of displacement is unknown. Leakage of radioactivity is under investigation.
		Oil leakage from oil drain piping of the K-3/4 start-up transformer (3SB).	Amount of leaked oil is unknown. Oil is still leaking. A start-up transformer is inoperable.
		Blowout panel in the turbine building had departed.	No radioactive material released.
		A water puddle was found on the operating floor in the reactor building.	
KK-4	In operation	Displacement of a duct connecting with a main stack was found. The details are under investigation.	Amount of displacement is unknown. Leakage of radioactivity is under investigation.
		Crack is found at expansion portion for a connection valve for water room of mountain-side condenser B	Amount of leaked water is 2.4m^3. Crack length is about 3.5m. No adverse effect on the facility.
		The water puddle was found on the operation floor in the reactor building.	
KK-5	Outage (under periodic inspection)	Displacement of a duct connecting with the main stack was found. The details are under investigation.	Amount of displacement is about 4cm. Leakage of radioactivity is under investigation.
		Water leakage from No.4 filtered water tank	The amount of leaked water is about 900m^3. Leakage was terminated. No radioactivity was detected.
		A screen wash pump of sea water intake facility was not operable.	
		A water puddle was found on the operating floor in the reactor building.	
KK-6	Outage (under periodic inspection)	Oil leakage from a start-up transformer (B)	Amount of leaked oil is unknown. Oil is still leaking. A start-up transformer is inoperable..
		Leakage of water was identified in the non-controlled areas of the third floor and the medium third floor in the reactor building and slight activity was detected (about 0.6 of a liter and about 2.8 x 10^2Bq at the third floor / about 0.9 of a liter and about 1.6 x 10^4Bq at the third medium floor)----water is still leaking at the rate of a droplet per three seconds====leaked water was discharged to the sea through a drainage path in the station(the amount of discharged water was about 1.2m^3 and its activity is about 6.0 x 10^4Bq; not detected by sea water monitor) ----discharge is stopped at present.	Already announced on July 16.
		A water puddle was found on the operating floor in the reactor building.	

Name of Unit	Before Earthquake	Contents of Damages	Remarks
KK-7	In operation	Cracks were found on the bank wall of the sea water intake canal.	Maximum crack length is about 8cm.
		The watertightness of a door for reactor core isolation cooling system, residual heat removal system (A)(B) was decreased.	
		A water puddle was found on the operating floor in the reactor building.	
Switchyard		500kV Shin-Niigata 2L was inoperable.	
		Slight air leakage from a circuit breaker of 500kV Shin-Niigata 2L	A rubber band is being used as an emergency measure.
		Oil leakage from the bushing of one of three phases (black phase) 500kV Shin-Niigata 2L (Minami-Niigata 2L was inoperable)	The amount of leakage is unknown. Oil is still leaking.
Solid radwaste storage		About 100 drums stored in the No.2 wing of solid radioactive waste storage had fallen down and lids of several drums were opened.	Detail is under investigation.
Administration building etc.		Normal power for the administration building was lost. Powers for the emergency response room and etc. are supplied from an emergency power supply.	Power for the emergency response room was only restored from an emergency power supply to a normal power supply.
		There is no damage to the structure such as columns, beams etc. of the administration building and the information building. The expansion portion between the buildings was damaged. Many cracks were found. Many windows were broken. Air-conditioning equipment on the roof of the building was damaged. Water tanks were damaged. Ducts had fallen down. Cooking equipment had dropped off.	
Station premise/ others		The northern slope of the soil dump was partly broken and collapsed.	
		Leakage from the drinking water tank (tank is empty)	
		Fire extinguishing equipment: pipings were damaged at the following 4 locations. Water is leaking. KK-1 at north-east side of the reactor building KK-1 at west side of the turbine building KK-1 in the vicinity of fire hydrant near a light oil tank KK-2 at the supply line to the service building	
		The environmental mini-computer (in the service building of unit 1) and the prefecture's telemeter equipment are inoperable.	Only the prefecture's telemeter equipment had restored by 3:40 pm on July 17.
		Roads in the station were severed at many locations. Liquefaction due to the earthquake is found over large area in the station.	Roads are now available for traffic.
		There is an obstruction of about 50 cm on the approach road. Not available for traffic (road repair started)	Roads are now available for traffic.
		North and south side bank wall of the discharge canal sunk.	