

News Release

Ministry of Economy,  
Trade and Industry (METI)

PRI-07-69

Press Release Information	Nuclear and Industrial Safety Agency (NISA), Ministry of Economy, Trade and Industry (METI)
Consequences of "the Niigataken Chuetsu-oki Earthquake in 2007" at Kashiwazaki-Kariwa Nuclear Power Station, Tokyo Electric Power Company (the 23rd report)	

September 6, 2007

NISA/METI

On September 6, 2007, the Nuclear and Industrial Safety Agency (NISA) received information from Tokyo Electric Power Company on the status of inspection and restoration after "the Niigataken Chuetsu-oki Earthquake in 2007" as shown below.

NISA also received the report (the report on pollution prevention etc.) pursuant to the provision of Article 4 of the Rule for Incident Report on the Electric Facilities etc. set forth based on the Electricity Utilities Industry Law.

I. Excerpts from the report submitted by Tokyo Electric Power Company

NISA received information from Tokyo Electric Power Company on the status of the major inspection and restoration (from September 2, 2007 to September 29, 2007) after "the Niigataken Chuetsu-oki Earthquake in 2007" at Kashiwazaki-Kariwa Nuclear Power Station and the in-core inspection plan of Unit-1 to Unit-7 as shown in the attachment.

II. The Report from Tokyo Electric Power Company

On September 6, NISA received an incident report from Tokyo Electric Power Company regarding to leakage of insulating oil pursuant to the Law. According to Tokyo Electric Power Company, there was leakage of insulating oil, which does not contain PCB from a transformer at Kashiwazaki-Kariwa Nuclear Power Station, and it was judged that this insulating oil soaked into the soil through the damaged area of the oil protection bank for the transformer.

Tokyo Electric Power Company has already taken an emergency measure for the location of the leak, and will continue the investigation of impact on the surrounding soil and will take necessary measures.

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### III. Actions of NISA

1. At the in-core inspections of Unit-1 to Unit-7, NISA will check if there is any damage or significant deformation.
2. Nuclear Power Safety Inspectors will confirm the plant status reported by Tokyo Electric Power Company, including details of the facts and causes of the incidents.
3. At present, no significant reading of fluctuation is identified by either the radiation monitoring systems of the main stacks or the monitoring posts.
4. NISA will continue checking whether Tokyo Electric Power Company will take adequate measures based on the results of the investigation of impact to the surrounding soil.

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(Regarding the general information)

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(Regarding the leakage of insulating oil from the transformer)

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Non-conformance and the Status of Inspection and Restoration Works after  
"the Niigataken Chuetsu-oki Earthquake in 2007"  
(Weekly Report: September 6)

September 6, 2007  
Tokyo Electric Power Company

Tokyo Electric Power Company provides this announcement the status of major inspection and restoration works of the plants (from September 2, 2007 to September 29, 2007) and non-conformance found in the inspection and restoration works after "the Niigataken Chuetsu-oki Earthquake in 2007" at Kashiwazaki-Kariwa Nuclear Power Station.

1. Status of Inspection and Restoration

- Inspection and restoration completed from August 31, 2007 to September 6, 2007
  - Inspection and restoration for the bushing of Minami-Niigata transmission line (No.2): Replacement to spare parts completed on August 31.
  - Provisional restoration of the Solid Waste Storage Facility: Completed on August 31 (Returning tipped-over drums to their original position)
  - Verification operation of stand-by equipments of the residual heat removal system: Completed on August 31
  - Survey for transformer oil leakage area: Completed on September 3
  - Unit-1 House transformer (1A) inner inspection: Completed on September 4
  - Unit-3 House transformer (3A) visual inspection: Completed on September 4
  - Unit-7 Reactor building overhead crane inspection: Scheduled to be completed on September 6
  - Repair and restoration of low voltage start-up transformer 6SB: Scheduled to be completed on September 6
  
- Inspection commenced from September 7, 2007 to September 13, 2007
  - Unit 1-5 Main exhaust ducts inspection
  - Unit-7 Refueling floor service tools inspection
  - Unit-6 House transformers preparation for inspection (oil extraction / inner inspection)
  - Verification operation of the standby gas treatment system
  - Preparation for dismantling the Arahama-side arrestor steel tower

2. Work Schedule and Results for Major Inspection and Restoration (from September 2, 2007 to September 29, 2007)

- "Work Schedule of the Main Inspection/Restoration of Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigataken Chuetsu-oki Earthquake in 2007(during 4 Weeks)" ----- Please refer to the Attachment 1

3. Non-conformance Found in the Inspection and Restoration Works Performed after “the Niigataken Chuetsu-oki Earthquake in 2007”

Based on the “Public Announcement Regarding Non-conformance Found in the Inspection and Restoration Works Performed after the Niigataken Chuetsu-oki Earthquake in 2007”, the Tokyo Electric Power Company, Incorporated. (TEPCO) provides this announcement containing incident information reported from August 30 to September 5, 2007 and the occurrence status of non-conformance (that have been deliberated) reported from August 23 to 29, 2007.

● Incident Information (relating to the Earthquake)

Aug. 30, 2007 - Sep. 5, 2007 (Total Figure from Aug. 10, 2007)		Number of incidents by Announcement Category (Total Figure from Aug. 10, 2007)	
Number of Reported Events	0 (1)	I	0(0)
		II	0(0)
		III	0(1)

Report from Aug. 30, 2007 to Sep. 5, 2007

Announcement Category	Date of Detection	Title of Report	Status
I	-	-	-
II	-	-	-
III	-	-	-

\*An injured person due to “the Niigataken Chuetsu-oki Earthquake in 2007” after the occurrence of the earthquake are shown in “Other Findings” below.

● Non-conformance Information (those related to : the Chuetsu-oki Earthquake; Grades As, A, B, C, and D; and non-graded)

Aug. 23, 2007 - Aug. 29, 2007 (Total Figure from July 16, 2007)	
Number of Reported Incidents	86(2641)

● Other Findings

- From the survey and analyses of the soil at the crack of the Unit-4, 5 and 7 transformer oil protection bank, insulating oil was found to have infiltrated into the soil. Incident report regarding leakage of insulating oil of electrical equipments has been submitted on September 6 in accordance to the relevant law. Detailed survey of the soil and necessary actions will be taken accordingly.
- Total number of injured person at the Kashiwazaki-Kariwa at the occurrence of earthquake (from August 10, 2007), one person. No radiation exposure.

## Work Schedule of the Main Inspection/Restoration of Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigataken Chuetsu-oki Earthquake in 2007 (during 4 Weeks)

[Inspection / Restoration status]

◆ September 2(Sun), 2007- September 29(Sat), 2007

System/Equipment	Items	Sep 2 (Sun) to Sep 8 (Sat)	Sep 9 (Sun) to Sep 15 (Sat)	Sep 16(Sun) to Sep 22 (Sat)	Sep 23(Sun) to Sep 29 (Sat)	Status of Inspection/Restoration	
Unit 1	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection	▼			Inspection due to be completed on September 17.	
		Refueling machine inspection				Inspection due to be commenced in mid- October.	
		Refueling floor service tools inspection (working dolly) (stud tensioner etc.)	▼			Inspection due to be completed on September 13.	
		Incore inspection (Phase 2*)	▼			Coordinating for inspection start date. Scheduled for the Phase 2 inspection from September 14 to September 23.	
	Relating to the Open Inspection of Turbines	Turbine building overhead crane inspection				Scheduled for inspection from August 20 to October 26.	
	Restoration/Inspection of Equipments	Main exhaust ducts inspection	Preparation	▼			Scheduled for inspection from September 10 to September 21.
			Inspection	▼	▼		
		Reactor combination building B5F level leakage water disposal					Water cleanup for the passage and area underway.
		Main transformer inspection					Coordinating for inspection start date.
		House transformers inspection (oil extraction / inner inspection)	Inspection	▼			1A: Inspection completed on September 4. 1B: Inspection due to be commenced in early October.
Excitation transformers inspection (oil extraction / inner inspection)		Preparation				Preparation for inspection due to be commenced in early October.	
Planning of visual inspection for major facilities and detailed inspection Daily inspection work of site facilities, etc.						Underway with collaboration with partner companies.	
Unit 2	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection				Scheduled for inspection from August 27 to October 4.	
		Refueling machine inspection				Scheduled for inspection from August 27 to October 2.	
		Refueling floor service tools inspection (stud tensioner etc.)	▼			Scheduled for inspection from September 3 to October 20.	
	Relating to the Open Inspection of Turbines	Turbine building overhead crane inspection				Inspection completed on August 24. Coordinating for turbine inspection timing.	
	Restoration/Inspection of Equipments	Main exhaust ducts inspection	Preparation	▼		▼	Preparation for inspection of the in-trench duct commenced on September 24.
			Inspection		▼	▼	Scheduled for inspection of outdoor from September 10 to September 21.
		Main transformer inspection (preparation for transportation from the factory)	Preparation				Coordinating for factory transportation date.
		House transformers inspection	Preparation				Preparation for inspection due to be commenced in early October.
		Excitation transformers inspection (visual inspection)	Preparation				Preparation for inspection due to be commenced in early October.
		Planning of visual inspection for major facilities and detailed inspection Daily inspection work of site facilities, etc.					Underway with collaboration with partner companies.
Restoration for the blowout panel of turbine building		Preparation			▼	Provisional restoration completed. Preparation for the restoration work due to be commenced on September 21.	

## Work Schedule of the Main Inspection/Restoration of Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigataken Chuetsu-oki Earthquake in 2007 (during 4 Weeks)

[Inspection / Restoration status]

◆ September 2(Sun), 2007- September 29(Sat), 2007

System/Equipment	Items	Sep 2 (Sun) to Sep 8 (Sat)	Sep 9 (Sun) to Sep 15 (Sat)	Sep 16(Sun) to Sep 22 (Sat)	Sep 23(Sun) to Sep 29 (Sat)	Status of Inspection/Restoration
Unit 3	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection	▼			Scheduled for inspection from August 20 to September 21.
		Refueling machine inspection				Inspection due to be commenced in mid-November.
		Refueling floor service tools inspection (stud tensioner etc.)				Inspection due to be commenced in late October.
		Restoration for the blowout panel of reactor building Preparation		▼	Provisional restoration completed. Preparation for the restoration work due to be commenced on September 15.	
	Relating to the Open Inspection of Turbines Restoration/Inspection of Equipments	Turbine building overhead crane inspection	▼			Scheduled for inspection from August 27 to November 23.
		Main exhaust ducts inspection Preparation	▼			Scheduled for inspection from September 10 to September 21.
		Inspection	▼			
		Main transformer inspection				Currently in the process of scheduling inspection.
		House transformers inspection (visual inspection) Preparation	▼			3A: Preparation completed on September 2. 3B: Transportation preparation (Scheduled for transportation from the factory on September 20)
			Inspection	▼		
(oil extraction / inner inspection) Preparation		▼			Preparation work stopped on September 4. Preparation work due to be resumed in early October.	
Excitation transformers inspection (visual inspection) Preparation		▼			Preparation work stopped on September 4. Preparation work due to be resumed in early October.	
Planning of visual inspection for major facilities and detailed inspection				Underway with collaboration with partner companies.		
Daily inspection work of site facilities, etc.						
Restoration for the blowout panel of turbine building				Provisional restoration completed. Currently in the process of scheduling preparation for the restoration work.		
Unit 4	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection				Inspection due to be commenced in early October.
		Refueling machine inspection				Inspection due to be commenced in mid-October.
		Refueling floor service tools inspection (stud tensioner etc.)				Inspection due to be commenced in early October.
	Relating to the Open Inspection of Turbines Restoration/Inspection of Equipments	Turbine building overhead crane inspection	▼			Scheduled for inspection from September 3 to October 16.
		Main exhaust ducts inspection Preparation	▼			Preparation for inspection of the in-trench duct commenced on September 24.
			Inspection	▼		
		Main transformer inspection				Coordinating for inspection start date.
		House transformers inspection				Coordinating for inspection start date.
		Excitation transformers inspection				Coordinating for inspection start date.
		Planning of visual inspection for major facilities and detailed inspection				Underway with collaboration with partner companies.
Daily inspection work of site facilities, etc.						

## Work Schedule of the Main Inspection/Restoration of Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigataken Chuetsu-oki Earthquake in 2007 (during 4 Weeks)

[Inspection / Restoration status]

◆ September 2(Sun), 2007- September 29(Sat), 2007

System/Equipment		Items	Sep 2 (Sun) to Sep 8 (Sat)	Sep 9 (Sun) to Sep 15 (Sat)	Sep 16(Sun) to Sep 22 (Sat)	Sep 23(Sun) to Sep 29 (Sat)	Status of Inspection/Restoration
Unit 5	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection	▼				Inspection due to be commenced on September 3.
		Refueling machine inspection		▼			Inspection due to be commenced on September 14.
		Refueling floor service tools inspection (stud tensioner etc.)					Inspection due to be commenced in early October.
	Relating to the Open Inspection of Turbines Restoration/Inspection of Equipments	Turbine building overhead crane inspection					Scheduled for inspection from August 28 to October 17.
		Main exhaust ducts inspection	Preparation	▼			Preparation for inspection of the in-trench duct commenced on September 24.
			Inspection	▼	▼	▼	Scheduled for inspection of outdoor from September 10 to September 21.
		Planning of visual inspection for major facilities and detailed inspection					Underway with collaboration with partner companies.
	Daily inspection work of site facilities, etc.						
Unit 6	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection					Damage cause under investigation. Inspection due to be commenced on September 10.
		Refueling machine inspection					Inspection due to be commenced in early October.
		Refueling floor service tools inspection (stud tensioner etc.)		▼			Inspection due to be commenced on September 14.
	Relating to the Open Inspection of Turbines Restoration/Inspection of Equipments	Turbine building overhead crane inspection					Scheduled for inspection from August 27 to October 4.
		House transformers inspection (oil extraction / inner inspection)	Preparation	▼	▼	▼	Preparation for inspection performed from September 7 to September 18.
			Inspection		▼	▼	6A: Scheduled for inspection from September 19 to September 22. 6B: Scheduled for inspection from September 24 to September 27.
		Planning of visual inspection for major facilities and detailed inspection					Underway with collaboration with partner companies.
	Daily inspection work of site facilities, etc.						
Unit 7	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection	▼				Inspection due to be completed on September 6.
		Refueling machine inspection				▼	Scheduled for inspection from August 29 to September 27.
		Refueling floor service tools inspection (stud tensioner etc.)	▼				Inspection due to be commenced on September 7. Inspection due to be completed at the end of September.
		Incore inspection					Open inspection of the reactor due to be commenced in early October.
	Relating to the Open Inspection of Turbines Restoration/Inspection of Equipments	Turbine building overhead crane inspection					Scheduled for inspection from August 27 to October 4.
		Main transformer inspection (oil extraction / inner inspection)	Preparation	▼			Inspection due to be commenced on September 14.
			Inspection		▼		
	Planning of visual inspection for major facilities and detailed inspection					Underway with collaboration with partner companies.	
	Daily inspection work of site facilities, etc.						

## Work Schedule of the Main Inspection/Restoration of Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigataken Chuetsu-oki Earthquake in 2007 (during 4 Weeks)

[Inspection / Restoration status]

◆ September 2(Sun), 2007- September 29(Sat), 2007

System/Equipment	Items	Sep 2 (Sun) to Sep 8 (Sat)	Sep 9 (Sun) to Sep 15 (Sat)	Sep 16(Sun) to Sep 22 (Sat)	Sep 23(Sun) to Sep 29 (Sat)	Status of Inspection/Restoration
Common Activities for the Power Plant	Verification run for stand-by equipments	Preparation	▼			Train inspection of the standby gas treatment system prior to verification operation.
		Operation	▼			Verification operation of the standby gas treatment system due to be performed on September 7, 14, 18 and 25 to 28.
	Periodic surveillance test (for EDG)			▼		Scheduled for periodic surveillance test from September 19 to 21.
Transformer (common) /Switch Yard	Repair/restoration of low voltage start-up transformer 6SB	Restoration	▼			Restoration due to be completed on September 6.
	High voltage start-up transformer No.1 (preparation for transportation from the factory)	Preparation	▼			Preparation for transportation from the factory commenced on August 27 (Transported due to commenced on September 20).
	On-site check & inspection of the oil protection bank for the transformer		▼			Provisional restoration due to be completed in mid-September. On-site inspection for Unit 6 completed on August 29; and low voltage start-up transformers (1SA, 1SB) due to be completed in mid-September; and for other systems already completed.
	Transformer oil leakage area survey (boring)	▼				Survey completed on September 3.
	Inspection preparation & restoration for the bushing of Minami-Niigata transmission line (No.2)					As a tentative measure, replacement to spare parts completed on August 31.
Environmental Facilities	On-site check & inspection of the incineration facility	▼				For incinerators situated at Arahama and Ominato side, inspection currently under way.
	House boilers inspection	▼				House boiler 1A, 2A, 2B (Arahama side) inspection underway. House boiler 4A & 4B (Ominato side) inspection underway. House boiler 4A due to be start up on September 6.
Solid Waste Storage Facility	Restoration work	Provisional restoration	▼			Provisional restoration completed on August 31.
		Preparation	▼			Full restoration to be contemplated in September. (including preparation).
Others	Restoration work for administration building/information building	▼				
	Restoration work for the on-site/outside roads & slope, etc.	▼				
	On-site maintenance work	▼				
	Dismantling of the Arahama-side arrester steel tower	Preparation	▼			Preparation for dismantlement commenced on September 8. Dismantlement due to be commenced in mid-October.

Note-1: We will notify you of inspection results for each system as soon as they are made available.

Note-2: Please note that details of the actual inspection/restoration work and their implementation schedule may be changed depending on conditions.

\*Phase 1: Inspection for the upper part of the reactors, Phase 2: Inspection for the middle part (reactor core) of the reactors, Phase 3: Inspection for the bottom part of the reactors.