

News Release

Ministry of Economy,  
Trade and Industry (METI)

PRI-07-75

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 26th report)	

September 20, 2007

NISA/METI

On September 20, 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.

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 16, 2007 to October 13, 2007) after "the Niigataken Chuetsu-oki Earthquake in 2007" at Kashiwazaki-Kariwa Nuclear Power Station as shown in the attachment.

In addition, the in-core inspection (Phase-2) of Unit-1 started on September 14.

II. 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 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.

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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 20)**

September 20, 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 16, 2007 to October 13, 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 September 14, 2007 to September 20, 2007
  - Unit-1 Reactor building overhead crane inspection; Completed on September 18
  - Unit-1 and 3 Main exhaust ducts inspection; Completed on September 14
  - Unit-3 Reactor building overhead crane inspection; Completed on September 14
  - Units-2 and 4 and 5 Main exhaust ducts (outside) inspection; Completed on September 14
  - On-site check and inspection of the oil protection bank for the transformer; Provisional restoration due to be completed on September 20
- Inspection commenced from September 21, 2007 to September 27, 2007
  - Unit-6 Refueling machine inspection
  - Unit-6 House transformer factory transportation preparation
- Work Schedule and Results for Major Inspection and Restoration (from September 16, 2007 to October 13, 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

**2. 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 September 13 to September 19, 2007 and the occurrence status of non-conformance (that have been deliberated) reported from September 6 to September 12, 2007.

• Incident Information (relating to the Earthquake)

Sep. 13, 2007 - Sep. 19, 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 Sep. 13, 2007 - Sep. 19, 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)

Sep. 6, 2007 - Sep. 12, 2007 (Total figure from July 16, 2007)	
Number of Reported Incidents	41(2799)

• Other Findings

- Inspection of Unit-1 main exhaust duct (above ground part) confirmed 2 cracks (about 1cm up-stream of the connector and about 40cm down-stream of the connector). No external impact from radioactivity since no radioactive material has been detected from either crack with surface contamination monitoring. Provisional repair has been implemented for both cracks by September 11 (Already announced on September 11).
- Total number of injured person at the Kashiwazaki-Kariwa at the occurrence of the 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 16(Sun), 2007- October 13(Sat), 2007

System/Equipment		Items	Sep 16 (Sun) to Sep 22 (Sat)	Sep 23(Sun) to Sep 29 (Sat)	Sep 30(Sun) to Oct 6 (Sat)	Oct 7(Sun) to Oct 13 (Sat)	Status of Inspection/Restoration	
Unit 1	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection	▼					Inspection completed on September 18.
		Refueling machine inspection						Inspection due to be commenced in mid- October.
		Refueling floor service tools inspection (working dolly) (stud tensioner etc.)						Inspection completed on September 13.
		In-core inspection (Phase 2*) (Phase3*) Preparation	▶				▶	Coordinating for inspection start date. Scheduled for the Phase 2 inspection from September 14 to October 1. Preparation for Phase-3 inspection due to be commenced on October 2
	Relating to the Open Inspection of Turbines	Turbine building overhead crane inspection						Scheduled for inspection from August 20 to October 26.
		Turbine internal inspection						Scheduled for casing opening and internal inspection from early November to early December.
	Restoration/Inspection of Equipments	Main exhaust ducts inspection						Inspection completed on September 14.
		Reactor combination building B5F level leakage water disposal						Floor cleaning due to be completed in mid-October.
		Main transformer inspection						Coordinating for inspection start date.
		House transformers inspection (oil extraction / inner inspection) Inspection					▶	1A: Inspection completed. 1B: Scheduled for inspection from October 8 to 12.
		Excitation transformers inspection (oil extraction / inner inspection) Preparation					▶	Scheduled for preparation on October 8 and 9. Scheduled for inspection from October 15 to October 18.
	Unit 2	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection	▶				
Refueling machine inspection			▶					Scheduled for inspection from August 27 to October 5.
Refueling floor service tools inspection (stud tensioner etc.)			▶					Scheduled for inspection from September 3 to October 18.
Relating to the Open Inspection of Turbines		Turbine building overhead crane inspection						Inspection completed on August 24.
		Turbine internal inspection						Scheduled for opening of the turbine casing and inner inspection from early November to early December.
Restoration/Inspection of Equipments		Main exhaust ducts inspection Preparation	▶					Preparation for inspection of the in-trench duct due to be performed from September 19 to early October.
		Inspection					▶	Inspection of outdoor equipments completed on September 14. Inspection of the in-trench duct due to be commenced after preparation is ready.
		Main transformer inspection (preparation for transportation from the factory) Preparation						Coordinating for inspection start date.
		House transformers inspection Preparation						Preparation for inspection due to be commenced from October 15.
		Excitation transformers inspection (visual inspection) Preparation						Preparation for inspection due to be commenced from October 29.
Restoration for the blowout panel of turbine building Preparation					▶	Provisional restoration completed. Preparation for the restoration work due to be commenced on October 1.		

## 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 16(Sun), 2007- October 13(Sat), 2007

System/Equipment	Items	Sep 16 (Sun) to Sep 22 (Sat)	Sep 23(Sun) to Sep 29 (Sat)	Sep 30(Sun) to Oct 6 (Sat)	Oct 7(Sun) to Oct 13 (Sat)	Status of Inspection/Restoration		
Unit 3	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection					Inspection completed on September 14.	
		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 commenced on September 18.
	Relating to the Open Inspection of Turbines	Turbine building overhead crane inspection	▼					Scheduled for inspection from August 27 to November 23.
		Turbine internal inspection						Scheduled for casing opening and internal inspection from early December to late December.
	Restoration/Inspection of Equipments	Main exhaust ducts inspection						Inspection completed on September 14.
		Main transformer inspection						Coordinating for inspection start date.
		House transformers inspection (visual inspection) Preparation	▼					3B: Preparation for transportation (Scheduled for transportation from the factory on September 20) 3A: Inspection completed
		(oil extraction / inner inspection) Preparation						Preparation for inspection due to be commenced on October 15.
		Excitation transformers inspection Preparation						Visual inspection due to be performed on September 18 and 19. Inner inspection due to be commenced on October 27.
		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 on October 5.	
		Refueling machine inspection					Inspection due to be commenced on October 15.	
		Refueling floor service tools inspection (stud tensioner etc.)				▼	Inspection due to be commenced on October 9.	
	Relating to the Open Inspection of Turbines	Turbine building overhead crane inspection	▼					Scheduled for inspection from September 3 to October 5.
		Turbine internal inspection						Scheduled for casing opening and internal inspection from early November to late November.
	Restoration/Inspection of Equipments	Main exhaust ducts inspection Preparation	▼					Preparation for inspection of the in-trench duct commenced from September 19 to early October.
		Inspection			▼			Inspection of outdoor equipments completed on September 14. Inspection of the in-trench duct due to be commenced after preparation is ready.
		Main transformer inspection						Coordinating for inspection start date.
		House transformers inspection						Coordinating for inspection start date.
		Excitation transformers inspection						Coordinating for inspection start date.

## 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 16(Sun), 2007- October 13(Sat), 2007

System/Equipment	Items	Sep 16 (Sun) to Sep 22 (Sat)	Sep 23(Sun) to Sep 29 (Sat)	Sep 30(Sun) to Oct 6 (Sat)	Oct 7(Sun) to Oct 13 (Sat)	Status of Inspection/Restoration		
Unit 5	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection	▼			Inspection due to be completed on September 28.		
		Refueling machine inspection	▼			Inspection due to be commenced on September 20.		
		Refueling floor service tools inspection (stud tensioner etc.)			▼		Scheduled for inspection from October 1 to 10.	
	Relating to the Open Inspection of Turbines	Turbine building overhead crane inspection	▼				Scheduled for inspection from August 28 to October 17.	
		Turbine internal inspection					Scheduled for casing opening and internal inspection from late October to late December.	
	Restoration/Inspection of Equipments	Main exhaust ducts inspection	Preparation	▼			Preparation for inspection of the in-trench duct due to be performed from September 19 to early October.	
			Inspection		▼		Inspection of outdoor equipments completed on September 14. Inspection of the in-trench duct due to be commenced after preparation is ready.	
Main generator inspection						Inspection due to be commenced in mid-October.		
Unit 6	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection	▼			Scheduled for inspection from September 10 to October 3.		
		Refueling machine inspection		▼		Inspection due to be commenced on September 27.		
		Refueling floor service tools inspection (stud tensioner etc.)	▼				Inspection due to be commenced on September 14.	
	Relating to the Open Inspection of Turbines	Turbine building overhead crane inspection	▼				Scheduled for inspection from August 27 to October 4.	
		Turbine internal inspection				▼	Scheduled for casing opening and internal inspection from October 11 to late October.	
	Restoration/Inspection of Equipments	Main transformer inspection (oil extraction / inner inspection)	Preparation	▼		▼	Scheduled for preparation from September 14 to October 3. Preparation for transportation from the factory due to be commenced on October 7.	
			Inspection		▼		Scheduled for inspection from October 4 to 6.	
		House transformers inspection (oil extraction / inner inspection)	Preparation	▼	▼			Scheduled for preparation from September 7 to September 19. Preparation for transportation from the factory due to be commenced on September 24.
			Inspection	▼				6A:Scheduled for inspection from September 20 to 25. 6B:Scheduled for inspection from September 24 to 26.
	Unit 7	Relating to the Open Inspection of Reactors	Reactor building overhead crane inspection				Inspection completed on September 6.	
Refueling machine inspection			▼			Scheduled for inspection from August 29 to September 27.		
Refueling floor service tools inspection (stud tensioner etc.)			▼				Scheduled for inspection from September 7 to October 1.	
Reactor head opening					▼		Scheduled for reactor head opening work from October 2 to 8.	
In-core inspection						▼	In-core inspection due to be commenced after reactor head opening completed.	
Relating to the Open Inspection of Turbines		Turbine building overhead crane inspection	▼				Scheduled for inspection from August 27 to October 4.	
		Turbine internal inspection				▼	Scheduled for casing opening and internal inspection from October 8 to late November.	
Restoration/Inspection of Equipments		Main transformer inspection (oil extraction / inner inspection)	Preparation	▼			Preparation for transportation from the factory due to be commenced on September 19.	
			Inspection	▼			Scheduled for inspection from September 14 to 21.	
		Main generator inspection				▼	Inspection due to be commenced on October 8.	

## 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 16(Sun), 2007- October 13(Sat), 2007

System/Equipment	Items	Sep 16 (Sun) to Sep 22 (Sat)	Sep 23(Sun) to Sep 29 (Sat)	Sep 30(Sun) to Oct 6 (Sat)	Oct 7(Sun) to Oct 13 (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. Pre-operational inspection of the fuel pool cooling water system back up equipments.  Verification operation of the standby gas treatment system due to be performed on September 7, 14, 18, 21,27,28 and October 2. Verification operation of the fuel pool cooling water system back up pumps due to be performed on September 18, 21, 25, 27 and 28.  Scheduled for periodic surveillance test from September 19 to 21.	
		Operation	▶				
	Periodic surveillance test (for EDG)	▼					
Transformer (common) /Switch Yard	High voltage start-up transformer No.1 (preparation for transportation from the factory) On-site check & inspection of the oil protection bank for the transformer	Preparation	▶			Preparation for transportation from the factory commenced on August 27 (Transported due to commenced on September 20).  Provisional restoration due to be completed on September 20.	
			▶				
Environmental Facilities	On-site check & inspection of the incineration facility	▶				For incinerators situated at Arahama and Ominato side, inspection currently under way (Inspection of the Ominato side incinerator due to be completed in late September).  House boiler (Arahama side) 1A, 2A and 2B are currently under inspection. House boiler (Ominato side) 4B is currently under inspection (Inspection due to be completed in mid-October).	
	House boilers inspection	▶					
Solid Waste Storage Facility	Restoration work	Preparation	▶				Preparation for equipments and materials for restoration is currently under way.
Others	Restoration work for administration building/information building	▶				Preparation due to be commenced on September 8. Dismantling due to be commenced in mid-October.	
	Restoration work for the on-site/outside roads & slope, etc.	▶					
	On-site maintenance work	▶					
	Dismantling of the Arahama side arrester steel tower	Preparation	▶				

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.