

Work Schedule of the Main Inspection/Restoration of Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks)(1/4)

【Inspection/Restoration Status】

◆From November 11th, 2007 (Sun) to December 8th, 2007 (Sat)

System/Equipment	Items	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Nov. 25th (Sun) to Dec. 1st (Sat)	Dec. 2nd (Sun) to Dec. 8th (Sat)	Status of Inspection/Restoration	
Unit No.1	Relating to the Open Inspection of Reactors	Refueling machine inspection				Inspection planned to be completed on Nov. 15.	
		Refueling floor service tools inspection (stud tensioners, etc.)				Coordinating for start date of inspection.	
		In-core inspection					Phase3* inspection preparation commenced on Oct. 2. Phase3* inspection to be commenced on Nov. 26.
		Reactor pressure vessel inspection					Inspection of support structure (foundation bolts and sway brace) completed on Nov. 7.
	Relating to the Open Inspection of Turbines	Turbine internal inspection					Casing opening and internal inspection planned from Nov. 9 to Nov. 30.
	Restoration/Inspection of Equipments	Submerged equipment inspection on ground floor 5 of the reactor combination building					Low Conductivity Waste (A) system partial restoration completed on Oct. 15. High Conductivity Waste system (A) partial restoration completed on Nov. 9. Storm Drain system (A) and (B) currently partially restored.
		Main transformers inspection (visual inspection)					Inspection completed on Nov. 1.
		(oil extraction/internal inspection) preparation					Preparation for transportation into the factory commenced on Oct. 29.
		inspection					Inspection planned from Nov. 19 to Nov. 22. Leakage due to increased number of operating HVACs. (Restoration to normal operating mode.)
		Main exhaust duct inspection					Red boot in the skimmer surge tank to be searched on Nov. 19 and 20.
Skimmer surge tank inspection							
Unit No.2	Relating to the Open Inspection of Reactors	In-core inspection					Phase1* & Phase2* inspection completed from Nov. 3 to Nov. 15. Phase3* inspection preparation to be commenced on Nov. 16.
		Fuel, control rod inspection					Inspection to be conducted first after completion of Phase1 and 2 of in-core inspection and second after completion of Phase 3 of in-core inspection.
		Reactor pressure vessel inspection preparation					
	inspection						Support structure (foundation bolts and sway brace) to be inspected from Nov. 12 to Nov. 14.
	Relating to the Open Inspection of Turbines	Turbine internal inspection					Casing opening and internal inspection planned from Nov. 28 to late December.
	Restoration/Inspection of Equipments	Main transformers inspection (preparation for transportation into the factory)					Preparation to be transported into the factory commenced on Nov. 1.
		House transformers inspection (visual inspection) preparation					2A Preparation completed on Nov. 7. 2B To be prepared from Nov. 8 to Nov. 14.
		inspection					2A Inspection completed on Nov. 8. 2B Inspection planned from Oct. 29 to Oct. 30, and Nov. 15.
		(oil extraction/internal inspection) preparation					2A Preparation completed on Nov. 9. 2B To be prepared from Oct. 29 to Nov. 2, Nov. 14 to Nov. 15.
		inspection					2A Inspection completed on Nov. 13. 2B Inspection planned on Nov. 16 and Nov. 17.
Excitation transformers inspection (visual inspection) preparation						To be prepared from Nov. 9 to Nov. 15.	
inspection					Inspection planned on Nov. 16 and Nov. 17.		
(oil extraction/internal inspection) preparation					To be prepared from Nov. 16 to Nov. 24.		
inspection					Inspection planned on Nov. 26 and Nov. 27.		
Restoration for the blowout panel of turbine building						Provisional restoration completed. Restoration work commenced on Oct. 9. Work suspended from Nov. 9 due to turbine inner inspection.	

Work Schedule of the Main Inspection/Restoration of Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks) (2/4)

【Inspection/Restoration Status】

◆ From November 11th, 2007 (Sun) to December 8th, 2007 (Sat)

System/Equipment	Items	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Nov. 25th (Sun) to Dec. 1st (Sat)	Dec. 2nd (Sun) to Dec. 8th (Sat)	Status of Inspection/Restoration	
Unit No.3	Relating to the Open Inspection of Reactors	Refueling machine inspection	▶			Inspection planned from Nov. 12 to mid-December.	
		Refueling floor service tools inspection (stud tensioners, etc.)	▶			Inspection planned from Oct. 24 to late December.	
		Restoration for the blowout panel of reactor building				Provisional restoration completed. Survey for restoration completed on Oct. 30. Coordinating for start date of restoration work.	
		Reactor pressure vessel inspection	▶			Inspection of support structure (foundation bolts and sway brace) completed on Nov. 12.	
	Relating to the Open Inspection of Turbines	Turbine internal inspection		▶		Casing opening and internal inspection planned from Nov. 21 to mid-December.	
	Restoration/Inspection of Equipments	Main transformers inspection (preparation for transportation into the factory)	▶			Inspection completed on Nov. 26. Preparation for transportation into the factory from Oct. 18 to Nov. 26.	
		House transformers inspection (oil extraction/internal inspection)				3A Inspection completed on Oct. 22. Coordinating for start date of transportation into the factory. * 3B Transportation completed on Sept. 20.	
		Excitation transformers inspection (oil extraction/internal inspection)				Inspection completed on Nov. 3. Coordinating for start date of transportation into the factory.	
		Restoration for the blowout panel of turbine building	▶			Provisional restoration completed. Restoration work commenced on Oct. 29. Work suspended due to turbine inner inspection.	
	Unit No.4	Relating to the Open Inspection of Reactors	Reactor building ceiling crane inspection				Inspection completed on Nov. 9.
Refueling machine inspection			▶			Inspection planned from Oct. 24 to Dec. 10.	
Refueling floor service tools inspection (stud tensioners, etc.)			▶			Inspection planned from Oct. 9 to Dec. 3.	
Reactor pressure vessel inspection			▶			Inspection of support structure (foundation bolts and sway brace) completed on Nov. 12.	
Relating to the Open Inspection of Turbines		Turbine internal inspection	▶			Casing opening and internal inspection planned from Nov. 8 to mid-December.	
Restoration/Inspection of Equipments		Main transformers inspection (oil extraction/internal inspection) preparation inspection				▶	Preparation planned from Dec. 3 to Dec. 10. Inspection due to be commenced on Dec. 11.
		House transformers inspection					4A, 4B Coordinating for start date of inspection.
		Excitation transformers inspection					Coordinating for start date of inspection.
		Removal of spent fuel pool underwater work platform			▶		Work planned from Nov. 29 to Nov. 30.

Work Schedule of the Main Inspection/Restoration of Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks) (3/4)

【Inspection/Restoration Status】

◆ From November 11th, 2007 (Sun) to December 8th, 2007 (Sat)

System/Equipment	Items	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Nov. 25th (Sun) to Dec. 1st (Sat)	Dec. 2nd (Sun) to Dec. 8th (Sat)	Status of Inspection/Restoration		
Unit No.5	Relating to the Open Inspection of Reactors	Reactor head opening					Inspection commenced on Oct. 30. Phase 1 and 2 inspection to be conducted after completion of fuel transfer.	
		Reactor pressure vessel inspection						Inspection of support structure (foundation bolts and sway brace) completed on Nov 2. Nozzle parts etc. to be inspected from Nov. 13.
	Relating to the Open Inspection of Turbines	Turbine internal inspection					Casing opening and internal inspection planned from Oct. 24 to mid-December.	
	Restoration/Inspection of Equipments	Main transformers inspection (oil extraction/internal preparation inspection)					Preparation planned from Nov. 16 to Nov. 26. Preparation for transportation to be commenced on Nov. 30. Inspection planned from Nov. 27 to Nov. 29.	
		House transformers inspection					5A, 5B Coordinating for start date of inspection.	
		Excitation transformers inspection					Coordinating for start date of inspection.	
		Main generator inspection					Inspection commenced on Nov. 3.	
Unit No.6	Relating to the Open Inspection of Reactors	Refueling machine inspection					Inspection completed on Nov. 12.	
		Refueling floor service tools inspection (stud tensioners, etc.)					Inspection completed on Nov. 3.	
		Reactor head opening					Reactor head opening work completed on Nov. 12.	
		In-core inspection					Inspection commenced on Nov. 13. Phase1* & Phase2* inspection planned from Nov. 26.	
		Reactor pressure vessel inspection preparation						Nozzle parts etc. to be prepared from Nov. 6 to mid-December.
		inspection						Inspection of support structure (foundation bolts and sway brace) completed on Oct. 30. Inspection of nozzle parts etc. commenced on Nov. 7.
	Relating to the Open Inspection of Turbines	Turbine internal inspection					Internal inspection completed on Oct. 25.	
	Restoration/Inspection of Equipments	Main transformers inspection					Transportation into the factory completed on Oct. 31.	
		House transformers inspection					Transportation into the factory completed on Oct. 25.	
		Reactor Internal Pump Input Transformer preparation						Preparation for transportation into the factory to be planned from Nov. 1 to Dec. 15.
			transportation					Two units each to be carried out to the factory on Nov. 20 and Dec. 3 (total of 4 units).
Discharge canal inspection							Discharge canal inspection completed on Sept. 29. Maintenance method under consideration.	
	Removal of spent fuel pool underwater work platform					Work completed on Nov. 14.		

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

【Inspection/Restoration Status】

◆ From November 11th, 2007 (Sun) to December 8th, 2007 (Sat)

System/Equipment	Items	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Nov. 25th (Sun) to Dec. 1st (Sat)	Dec. 2nd (Sun) to Dec. 8th (Sat)	Status of Inspection/Restoration		
Unit No.7	Relating to the Open Inspection of Reactors	In-core inspection					Control rod drive to be disassembled and inspected from Nov. 3. Phase1* & Phase2* in-core inspection due to be commenced on Nov. 20 after reactor well inspection completed.	
		Fuel, control rod inspection					To be inspected from Nov. 17 to Nov. 19, in early December, and after completion of the Phase 3 inspection.	
		Reactor pressure vessel inspection preparation					Nozzle parts etc. to be prepared from Nov. 8 to early December.	
		inspection					Inspection of support structure (foundation bolts and sway brace) completed on Oct. 29. Nozzle parts etc. to be inspected from Oct. 15.	
	Reactor-well inspection	preparation					Preparation completed on Nov. 1.	
		inspection					Inspection planned from Nov. 2 to Nov. 15.	
	Relating to the Open Inspection of Turbines	Turbine internal inspection					Casing opening and internal inspection planned from Oct. 8 to Nov. 30.	
	Restoration/Inspection of Equipments	Main transformers inspection (preparation for transportation into the factory)					Transportation into the factory completed on Oct. 25.	
		House transformers inspection (oil extraction/internal inspection)	preparation					7A, 7B Preparation for transportation to be commenced on Nov. 11. Transportation into the factory planned on Dec. 4.
			inspection					7A Inspection completed on Nov. 14. 7B Inspection completed on Nov. 10.
Reactor Internal Pump Input Transformer		preparation					Preparation for transportation into the factory to be planned from Nov. 1 to Nov. 18.	
transportation						All 4 units planned to be carried out to the factory on Nov. 19.		
Main generator inspection					Inspection commenced on Nov. 2.			
Discharge canal inspection					Discharge canal inspection completed on Oct. 10. Maintenance method under consideration.			
Common Activities for the Power Plant	Verification operation of stand-by equipments operation					Verification operation of the emergency core cooling systems performed on Nov. 9. Unit No. 1, 3 and 4 Stand-by Liquid Control System verification test run planned on Nov. 15, 16, 19, 20 and 21.		
	Verification operation of feedwater pump and condensate pump					Unit No.7 Verification operation completed on Nov. 12.		
Transformer (common)/Switch Yard	High-voltage start-up transformer #1 inspection					Preparation work for installation to be commenced on Nov. 19. To be carried in on Dec. 5 and to be installed from Dec. 6.		
	On-site check & inspection of the oil protection bank for the transformer					Provisional restoration completed on Sept. 20. Restoration method under consideration.		
	Inspection of the Minami Niigata trunk line #2 bushing					Inspection planned from Nov. 23 to Dec. 23. Planned to receive power on Dec. 23.		
Environmental Facilities	On-site check & inspection of the incineration facility					For incinerators situated at Arahama side, inspection currently under way. Inspection to be completed on Nov. 30.		
	Inspection of house boilers					House boiler (Arahama-side) 1A, 2A, 2B: Inspection underway. (Ohminato-side) 4A: Inspection underway. 4B: Inspection completed on Oct. 23.		
Solid Waste Storage Facility	Restoration work					Drum soundness verification work to be commenced on Oct. 9.		
Others	Restoration work for administration building/information building					Repair work of the second floor of the administrative building to be commenced on Oct. 17.		
	Restoration work for the on-site/outside roads & slope, etc.					Restoration of the slope completed on Oct. 22.		
	Dismantling of Arahama-side arrestor steel tower					Dismantling work Completed on Nov. 12. Dismantling of the steel tower completed on Oct. 26.		

※ Inspection results for each facilities will be announced as soon as they compiled.

※ Inspection and restoration work and execution date for each item may alter according to the situation.

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