

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)



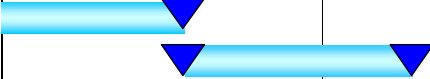






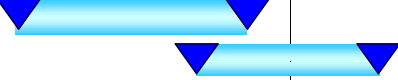



【Inspection/Restoration Status】

◆From November 4th, 2007 (Sun) to December 1st, 2007 (Sat)

System/Equipment		Items	Nov. 4th (Sun) to Nov. 10th (Sat)	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Nov. 25th (Sun) to Dec. 1st (Sat)	Status of Inspection/Restoration
Unit No.1	Relating to the Open Inspection of Reactors	Refueling machine inspection					Inspection planned from Oct. 24 to Nov. 14.
		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. 24.
		Reactor pressure vessel inspection preparation inspection					Preparation completed on Nov. 2. Inspection of support structure (foundation bolts and sway brace) completed on Nov. 7.
	Relating to the Open Inspection of Turbines	Turbine internal inspectioon					Casing opening and internal inspection planned from Nov. 9 to early December.
	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) and Storm Drain system (A) and (B) currently partially restored.
		Main transformers inspection (visual inspection) preparation inspection					Preparation completed on Oct. 27. Inspection completed on Nov. 1.
		(oil extraction/internal inspection) preparation inspection					To be prepared from Oct. 29 to Nov. 9. Preparation to be transported into the factory from Oct. 29. Inspection planned from Nov. 19 to Nov. 22.
	Relating to the Open Inspection of Reactors	In-core inspection					Inspection commenced on Oct. 25. Phase1* & Phase2* inspection commenced on Nov. 3.
		Fuel, control rod inspection					Inspection to be conducted first after completion of Phase 1 and 2 of in-core inspection and second after completion of Phase 3 of in-core inspection.
		Reactor pressure vessel inspection preparation inspection					To be prepared from Oct. 22 to Nov. 10. Nozzle parts etc. to be prepared from Nov. 14.
							Support structure (foundation bolts and sway brace) to be inspected from Nov. 12 to Nov. 14.
		Turbine internal inspectioon					Casing opening and internal inspection planned from Nov. 28 to late December.
		Main transformers inspection (preparation for tranportation into the factory)					Preparation to be transported into the factory commenced on Nov. 1.
		House transformers inspection (visual inspection) preparation inspection					2A Preparation completed on Nov. 7. 2B To be prepared from Nov. 8 to Nov. 14. 2A Inspection planned from Oct. 22 to Oct. 23, Nov. 8 to Nov. 9. 2B Inspection planned from Oct. 29 to Oct. 30, Nov. 15 to Nov. 16.
		(oil extraction/internal inspection) preparation inspection					2A To be prepared from Oct. 24 to Oct. 27, Nov. 7 to Nov. 8. 2B To be prepared from Oct. 29 to Nov. 2, Nov. 14 to Nov. 15. 2A Inspection planned from Nov. 9 to Nov. 10. 2B Inspection planned from Nov. 16 to Nov. 17.
Unit No.2	Restoration/Inspection of Equipments	Excitation transformers inspection (visual inspection) preparation inspection					To be prepared from Nov. 9 to Nov. 15. Inspection planned from Nov. 16 to Nov. 17.
		(oil extraction/internal inspection) preparation inspection					To be prepared from Nov. 16 to Nov. 21. Inspection planned from Nov. 22 to Nov. 23.
		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 4th, 2007 (Sun) to December 1st, 2007 (Sat)

System/Equipment	Items	Nov. 4th (Sun) to Nov. 10th (Sat)	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Nov. 25th (Sun) to Dec. 1st (Sat)	Status of Inspection/Restoration
Unit No.3	Relating to the Open Inspection of Reactors	Refueling machine inspection				Inspection due to be commenced on Nov. 12.
		Refueling floor service tools inspection (stud tensioners, etc.)				Inspection commenced on Oct. 24.
		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 preparation inspection				Preparation completed on Nov. 7. Support structure (foundation bolts and sway brace) to be inspected from Nov. 8 to Nov. 12.
	Relating to the Open Inspection of Turbines	Turbine building ceiling crane inspection				Inspection completed on Oct. 30.
		Turbine internal inspectioon				Casing opening and internal inspection planned from Nov. 21 to mid-December.
	Restoration/Inspection of Equipments	Main transformers inspection (oil extraction/internal inspection) preparation inspection				Preparation to be transported into the factory planned from Oct. 18 to Nov. 26. Inspection completed on Oct. 26.
		House transformers inspection (oil extraction/internal inspection)				3A Inspection completed on Oct. 22. Coordinating for start date of transportation into the dactory. * 3B Transportation completed on Sept. 20.
		Excitation transformers inspection (oil extraction/internal inspection) preparation inspection				Preparation completed on Oct. 31. 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.
Unit No.4	Relating to the Open Inspection of Reactors	Reactor building ceiling crane inspection				Inspection planned from Oct. 6 to 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 preparation inspection				To be prepared from Nov. 5 to Nov. 9. Support structure (foundation bolts and sway brace) to be inspected from Nov. 9 to Nov. 12.
	Relating to the Open Inspection of Turbines	Turbine internal inspectioon				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 Nov. 30 to Dec. 3. Inspection due to be commenced on Nov. 4.
		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 4th, 2007 (Sun) to December 1st, 2007 (Sat)

System/Equipment		Items	Nov. 4th (Sun) to Nov. 10th (Sat)	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Nov. 25th (Sun) to Dec. 1st (Sat)	Status of Inspection/Restoration		
Unit No.5	Relating to the Open Inspection of Reactors	Reactor head opening					Reactor head opening work completed on Oct. 29. Dryer/Separator pit and reactor well filled up with water on Oct. 26.		
		In-core inspection					In-core inspection commenced on Oct. 30. Phase1* & Phase2* inspection planned from Nov. 14.		
		Reactor pressure vessel inspection preparation inspection					Preparation completed on Oct. 31. Inspection of support structure (foundation bolts and sway brace) completed on Nov. 2.		
	Relating to the Open Inspection of Turbines	Turbine internal inspectioon					Casing opening and internal inspection planned from Oct. 24 to mid-December.		
	Restoration/Inspection of Equipments	Main transformers inspection (oil extraction/internal inspection) preparation inspection			▼	▼	▼	Preparation planned from Nov. 16 to Nov. 19. Preparation for transportation to be commenced on Nov. 23. Inspection planned from Nov. 20 to Nov. 22.	
		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 planned from Sept. 27 to Nov. 12.	
		Refueling floor service tools inspection (stud tensioners, etc.)						Inspection completed on Nov. 3.	
		Reactor head opening	▼			▼			Reactor head opening work planned from Nov. 5 to Nov. 12.
		In-core inspection			▼				Inspection due to be commenced on Nov. 13. Phase1* & Phase2* inspection planned from Nov. 26.
		Reactor pressure vessel inspection preparation inspection	▼					▼	Preparation completed on Oct. 29. Nozzle parts etc. to be prepared from Nov. 6 to mid-December. Inspection of support structure (foundation bolts and sway brace) completed on Oct. 30. Nozzle parts etc. to be inspected from Nov. 7.
	Relating to the Open Inspection of Turbines	Turbine internal inspectioon						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 transportation						▼	Preparation for toransportation into the factory to be planned from Nov. 1 to mid-December. Two units each to be carried out to the factory on Nov. 29 amd Dec. 15 (total of 4 units).
		Discharge canal inspetion							Discharge canal inspection completed on Sept. 29. Maintenance method under consideration.
		Removal of spent fuel pool underwater work platform			▼				Work planned 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 4th, 2007 (Sun) to December 1st, 2007 (Sat)

System/Equipment		Items	Nov. 4th (Sun) to Nov. 10th (Sat)	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Nov. 25th (Sun) to Dec. 1st (Sat)	Status of Inspection/Restoration	
Unit No.7	Relating to the Open Inspection of Reactors	In-core inspection					In-core inspection commenced on Oct. 9. Fuel removal completed on Oct. 23. Withdrawal of the control rod that experienced separation completed on Oct. 24. Control rod drive to be disassembled and inspected from Nov. 3. Phase1* & Phase2* in-core inspection due to be commenced after reactor well inspection completed.	
		Fuel, control rod inspection					To be inspected after completion of the reactor well inspection and the completion of the Phase 3 inspection.	
		Reactor pressure vessel inspection	preparation					Preparation completed on Oct. 25. 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. 16.
		Reactor-well inspection	preparation					Preparation completed on Nov. 1.
			inspection					Inspection planned from Nov. 2 to mid-November.
		Relating to the Open Inspection of Turbines	Turbine internal inspectioon					Casing opening and internal inspection planned from Oct. 8 to late November.
		Restoration/Inspection of Equipments	Main transformers inspection (preparation for tranportation into the factory)					Transportation into the factory completed on Oct. 25.
	House transformers inspection (oil extraction/internal inspection)		preparation					7A, 7B Inspection preparation performed from Oct. 22 to Nov. 6. Preparation for transportation to be commenced on Nov. 11. Transportation into the factory planned in early December.
			inspection					7A Inspection planned from Nov. 13 to Nov. 14. 7B Inspection planned from Nov. 7 to Nov. 10.
	Reactor Internal Pump Input Transformer		preparation					Preparation for toransportation into the factory to be planned from Nov. 1 to Nov. 18.
			transportation					All 4 units to be carried out to the factory on Nov. 19.
	Main generator inspection						Inspection commenced on Nov. 2.	
	Discharge canal inspetion					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 planned 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	preparation					Unit No.7 to be filled with water from Oct. 25 to Nov. 8.	
		operation					Unit No.7 verification operation planned from Nov. 6 to Nov. 9.	
Transformer (common)／Switch Yard	High-voltage start-up transformer #1inspection					Preparation work for installation to be commenced on Nov. 19.		
	Low-voltage start-up transformer 3SA inspection (oil extraction/internal inspection)					Internal inspection completed on Oct. 25. Begun receiving power on Oct. 26.		
	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 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 planned from Oct. 14 to 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.