

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 October 28st, 2007 (Sun) to November 24th, 2007 (Sat)

System/Equipment	Items	Oct. 28th (Sun) to Nov. 3rd (Sat)	Nov. 4th (Sun) to Nov. 10th (Sat)	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Status of Inspection/Restoration	
Unit No.1	Relating to the Open Inspection of Reactors	Reactor building ceiling crane inspection				Inspection completed on Sept. 18.	
		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				Phase2* inspection completed on Oct. 1. Phase3* inspection preparation commenced on Oct. 2.	
		Reactor pressure vessel inspection preparation				To be prepared from Oct. 29 to Nov. 2.	
		inspection				Inspection planned from Nov. 5 to Nov. 7. Support structure (foundation bolts and sway brace) to be inspected.	
	Relating to the Open Inspection of Turbines	Turbine building ceiling crane inspection				Inspection planned from Aug. 20 to Oct. 26.	
		Turbine internal inspectioon				Casing opening and internal inspection planned from early 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				Preparation completed on Oct. 27.	
		inspection			Inspection planned from Oct. 31 to Nov. 1.		
(oil extraction/internal inspection) preparation					To be prepared from Oct. 29 to Nov. 9. Preparation to be transported into the factory from Oct. 29.		
	inspection				Inspection planned from Nov. 10 to Nov. 15.		
	Excitation transformers inspection (oil extraction/internal inspection)				Inspection completed on Oct. 18.		
Unit No.2	Relating to the Open Inspection of Reactors	Reactor building ceiling crane inspection				Inspection completed on Oct. 4.	
		Refueling machine inspection				Inspection completed on Oct. 16.	
		Refueling floor service tools inspection (stud tensioners, etc.)				Inspection completed on Oct. 13.	
		Reactor head opening				Reactor head opening work completed on Oct. 24. Dryer/Separator pit and reactor well filled up with water on Oct. 24.	
		In-core inspection				Inspection to be commenced on Oct. 25. Phase1* & Phase2* inspection planned from Nov. 3.	
		Reactor pressure vessel inspection preparation				To be prepared from Oct. 22 to Nov. 10. Nozzle parts etc. to be prepared from Nov. 14.	
		inspection			Inspection planned from Nov. 12 to Nov. 14. Support structure (foundation bolts and sway brace) to be inspected.		
	Relating to the Open Inspection of Turbines	Turbine building ceiling crane inspection				Inspection completed on Aug. 24.	
		Turbine internal inspectioon				Casing opening and internal inspection planned from Nov. 28 to late December.	
	Restoration/Inspection of Equipments	Main transformers inspection (preparation for tranportation into the factory)				Preparation to be transported into the factory from Nov. 1.	
		House transformers inspection (visual inspection) preparation				2A To be prepared from Oct. 15 to Oct. 20, Nov. 1 to Nov. 7. 2B To be prepared from Nov. 8 to Nov. 14.	
			inspection				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				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.	
		inspection				2A Inspection planned from Nov. 9 to Nov. 10. 2B Inspection planned from Nov. 16 to Nov. 17.	
Excitation transformers inspection (visual inspection) preparation					To be prepared from Nov. 8 to Nov. 16.		
	inspection				Inspection planned from Nov. 16 to Nov. 17, Nov. 22 to Nov. 23.		
	(oil extraction/internal inspection) preparation				To be prepared from Nov. 16 to Nov. 21.		
	inspection				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 October 28st, 2007 (Sun) to November 24th, 2007 (Sat)

System/Equipment	Items	Oct. 28th (Sun) to Nov. 3rd (Sat)	Nov. 4th (Sun) to Nov. 10th (Sat)	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Status of Inspection/Restoration	
Unit No.3	Relating to the Open Inspection of Reactors	Reactor building ceiling crane inspection				Inspection completed on Sept. 14.	
		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	▶	▶	▶		To be prepared from Oct. 29 to Nov. 7. Inspection planned from Nov. 8 to Nov. 12. Support structure (foundation bolts and sway brace) to be inspected.
	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 from Oct. 18. Inspection completed on Oct. 26.
		House transformers inspection (oil extraction/internal inspection)					3A Inspection completed on Oct. 22. * 3B Transportation completed on Sept. 20.
		Excitation transformers inspection (oil extraction/internal inspection) preparation inspection	▶	▶			Preparation completed on Oct. 31. Inspection planned from Nov. 1 to Nov. 2.
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. 3.
		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. Inspection planned from Nov. 9 to Nov. 12. Support structure (foundation bolts and sway brace) to be inspected.
	Relating to the Open Inspection of Turbines	Turbine building ceiling crane inspection					Inspection completed on Oct. 5.
		Turbine internal inspectioon		▶	▶		
	Restoration/Inspection of Equipments	Main transformers inspection					Coordinating for start date of inspection.
		House transformers inspection					4A, 4B Coordinating for start date of inspection.
		Excitation transformers inspection					Coordinating for start date of 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) (3/4)

【Inspection/Restoration Status】

◆ From October 28st, 2007 (Sun) to November 24th, 2007 (Sat)

System/Equipment	Items	Oct. 28th (Sun) to Nov. 3rd (Sat)	Nov. 4th (Sun) to Nov. 10th (Sat)	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Status of Inspection/Restoration
Unit No.5	Relating to the Open Inspection of Reactors	Reactor building ceiling crane inspection				Inspection completed on Sept. 28.
		Refueling machine inspection				Inspection completed on Oct. 19.
		Refueling floor service tools inspection (stud tensioners, etc.)				Inspection completed on Oct. 19.
		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 planned from Nov. 1 to Nov. 2. Support structure (foundation bolts and sway brace) to be inspected.
	Relating to the Open Inspection of Turbines	Turbine building ceiling crane inspection				Inspection completed on Oct. 17.
		Turbine internal inspection				Casing opening and internal inspection planned from Oct. 24 to mid-December.
	Restoration/Inspection of Equipments	Main transformers inspection				Coordinating for start date of inspection.
		House transformers inspection				5A, 5B Coordinating for start date of inspection.
		Excitation transformers inspection				Coordinating for start date of inspection.
		Main generator inspection				Inspection due to be commenced on Nov. 3.
Unit No.6	Relating to the Open Inspection of Reactors	Reactor building ceiling crane inspection				Inspection completed on Oct. 2.
		Refueling machine inspection				Inspection planned from Sept. 27 to Nov. 12.
		Refueling floor service tools inspection (stud tensioners, etc.)				Inspection planned from Sept. 17 to Nov. 3.
		Reactor head opening				Reactor head opening work from Nov. 5 to Nov. 12.
		In-core inspection				Inspection due to be commenced on Nov. 13.
		Reactor pressure vessel inspection preparation inspection				Preparation completed on Oct. 29. Nozzle parts etc. to be prepared from Nov. 6. Inspection completed on Oct. 30. Support structure (foundation bolts and sway brace) to be inspected. Nozzle parts etc. to be inspected from Oct. 10.
	Relating to the Open Inspection of Turbines	Turbine building ceiling crane inspection				Inspection completed on Oct. 4.
		Turbine internal inspection				Casing opening and internal inspection completed on Oct. 25.
	Restoration/Inspection of Equipments	Main transformers inspection (preparation for transportation into the factory)				Preparation to be transported into the factory from Oct. 7th. Transportation completed on Oct. 31.
		House transformers inspection (preparation for transportation into the factory)				Transportation into the factory completed on Oct. 25.
		Reactor Internal Pump Input Transformer (preparation for transportation into the factory)				Preparation for transportation into the factory to be planned from Nov. 1 to mid-Dec.
		Discharge canal inspection				Discharge canal inspection completed on Sept. 29. Restoration method under consideration.

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 October 28st, 2007 (Sun) to November 24th, 2007 (Sat)

System/Equipment	Items	Oct. 28th (Sun) to Nov. 3rd (Sat)	Nov. 4th (Sun) to Nov. 10th (Sat)	Nov. 11th (Sun) to Nov. 17th (Sat)	Nov. 18th (Sun) to Nov. 24th (Sat)	Status of Inspection/Restoration
Unit No.7 Relating to the Open Inspection of Reactors	Reactor building ceiling crane inspection					Inspection completed on Sept. 6.
	Refueling machine inspection					Inspection completed on Sept. 27.
	Refueling floor service tools inspection (stud tensioners, etc.)					Inspection completed on Oct 1.
	Reactor head opening					Reactor head opening work completed on Oct. 8.
	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.
	Reactor pressure vessel inspection preparation					Preparation completed on Oct. 25. Nozzle parts etc. to be prepared from Nov. 5.
	Reactor pressure vessel inspection inspection					Inspection completed on Oct. 29. Inspection of support structure (foundation bolts and sway brace) completed. Nozzle parts etc. to be inspected from Oct. 14.
Reactor-well inspection preparation					To be prepared from Nov. 25 to Nov. 1.	
Reactor-well inspection inspection					Inspection planned from Nov. 2 to mid-November.	
Relating to the Open Inspection of Turbines	Turbine building ceiling crane inspection					Inspection completed on Oct. 4.
	Turbine internal inspection					Casing opening and internal inspection planned from Oct. 8 to late November.
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)					7A, 7B Inspection preparation commenced on Oct. 22.
	Reactor Internal Pump Input Transformer (preparation for transportation into the factory)					Preparation for transportation into the factory to be planned from Nov. 1 to mid-December.
	Main generator inspection					Inspection to be commenced on Nov. 2.
	Discharge canal inspection					Discharge canal inspection completed on Oct. 10. Restoration 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. 1, 7 and 9.
	Verification operation of feedwater pump and condensate pump preparation					Unit No.7 to be filled with water from Oct. 25 to Nov. 8.
	Verification operation of feedwater pump and condensate pump operation					Unit No.7 verification operation planned from Nov. 6 to Nov. 9.
Transformer (common)/Switch Yard	High-voltage start-up transformer #1 inspection					Transportation completed on Sept. 20.
	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.
	Inspection of the Minami Niigata trunk line #2 bushing					Inspection planned from Nov. 23 to Dec. 23. Planned to be received power on Dec. 23.
Environmental Facilities	On-site check & inspection of the incineration facility					For incinerators situated at Arahama side, inspection currently under way. Start-up of Ohminato-side incinerator on Sept. 26.
	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.