

Work Schedule of the Main Inspection/Restoration of the Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks)(1/2)

【Inspection/Restoration Status】

◆From October 18, 2009 (Sun) to November 14, 2009 (Sat)

System / Equipment		Items	October 18 (Sun) to October 24 (Sat)	October 25 (Sun) to October 31 (Sat)	November 1 (Sun) to November 7 (Sat)	November 8 (Sun) to November 14 (Sat)	Status of Inspection / Restoration		
Unit No.1	Turbine facilities	Turbine inspection	[Blue bar]					High-pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commenced on Nov. 17, 2008.	
	Other facilities	Main transformer inspection	[Blue bar]					Carrying in and installation work commenced on Apr. 20.	
		House transformer inspection	[Blue bar]					1A, 1B Carrying in and installation work commenced on Mar. 30.	
		Excitation transformer inspection	[Blue bar]					Carrying in and installation work commenced on Mar. 30.	
		Main generator inspection	[Blue bar]					Inspection commenced on Feb. 7, 2008.	
		500kV power cable inspection	[Blue bar]				▼	Laying cables to be completed from Jun. 2 to Nov. 7.	
		Main exhaust duct inspection / restoration	[Blue bar]					Restoration of substructure commenced on Dec. 1, 2008. Restoration work of main exhaust duct commenced on Jul. 29, 2009.	
		Circulating water pipe inspection	[Blue bar]					Foundation improvement, excavating work, and inspection of pipes commenced on Aug. 6, 2008.	
	Seismic reinforcement	Seismic reinforcement works such as pipe supports	[Blue bar]					Reinforcement work commenced on Jul. 16.	
		Seismic reinforcement works for reactor building overhead crane	[Blue bar]					Reinforcement work completed on Oct. 15.	
		Seismic reinforcement works for stack (Unit No.1 and Unit No.2)	[Blue bar]					Reinforcement work commenced on Jul. 27.	
		Seismic reinforcement works for the fuel handling machine	[Blue bar]					Reinforcement work completed on Oct. 10.	
		Seismic reinforcement works for emergency intake channel	[Blue bar]					Foundation improvement work commenced on Feb. 9. Reinforcement work for the bank protection connection commenced on Oct. 5.	
	Unit No.2	Turbine facilities	Turbine inspection	[Blue bar]					High-pressure turbine and low-pressure turbine (A) internal inspection completed.
		Other facilities	House transformer inspection	[Blue bar]					Transportation into the factory is underway.
Excitation transformer inspection			[Blue bar]					Transportation into the factory is underway.	
Main generator inspection			[Blue bar]					Inspection commenced on Mar. 19, 2008.	
Main exhaust duct inspection / restoration			[Blue bar]					Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substructure commenced on Dec. 1, 2008.	
Unit No.3	Turbine facilities	Turbine inspection	▼	[Blue bar]				High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on May 7, 2008. Low-pressure turbine (A) (B) restoration work of blades to be conducted from Jun. 25, 2008 to Oct. 22, 2009.	
	Other facilities	Main transformer inspection	[Blue bar]					Carrying in and installation work commenced on Aug. 10.	
		House transformer inspection	[Blue bar]					3A, 3B Installation work commenced on Nov. 18, 2008.	
		Excitation transformer inspection	[Blue bar]					Installation work commenced on Nov. 18, 2008.	
		Main generator inspection	[Blue bar]					Inspection commenced on Feb. 20, 2008.	
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive	[Blue bar]					Transformer (B) carrying in and installation work commenced on May 27. Transformer (A) carrying in and installation work commenced on Jun. 3.	
		500kV power cable inspection	[Blue bar]					Laying cables commenced on Jul. 17.	
		Main exhaust duct inspection / restoration	[Blue bar]					Restoration work of substructure commenced on Jan. 9. Restoration work of main exhaust duct commenced on Sep. 3.	
		Circulating water pipe inspection	[Blue bar]					Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16, 2008.	
	Seismic reinforcement	Seismic reinforcement works for reactor building overhead crane		▼	[Blue bar]				Preparation for reinforcement work to be commenced on Oct. 27.
		Seismic reinforcement works for stack	[Blue bar]					Reinforcement work commenced on Jul. 21	
		Seismic reinforcement works for the fuel handling machine		▼	[Blue bar]				Preparation for reinforcement work to be commenced on Oct. 26.
Unit No.4	Turbine facilities	Turbine inspection	[Blue bar]					High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on Aug. 3. Low-pressure turbine (A) (B) restoration work of blades commenced on Sep. 28, 2009. (Replacement of wear and contacted blades.)	
	Other facilities	Main transformer inspection	[Blue bar]					Carrying in and installation work commenced on Aug. 28.	
		House transformer inspection	[Blue bar]					Carrying in and installation work commenced on Sep. 2.	
		Excitation transformer inspection	[Blue bar]					Carrying in and installation work commenced on Sep. 2.	
		Main generator inspection	[Blue bar]					Inspection commenced on Jan. 15, 2008.	
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive	[Blue bar]					Carrying in and installation work commenced on Jun. 12.	
		Main exhaust duct inspection / restoration	[Blue bar]					Preparation for restoration work commenced on Jun. 23, 2008.	
		Restoration work of stand-by gas treatment system piping duct substructure		▼	[Blue bar]				Restoration work to be commenced on Oct. 28.
	Seismic reinforcement	Seismic reinforcement works for reactor building overhead crane	▼	[Blue bar]				Preparation for reinforcement work completed on Oct. 20. Reinforcement work commenced on Oct. 21.	
		Seismic reinforcement works for stack	[Blue bar]					Reinforcement work commenced on Jul. 6.	

【Inspection/Restoration Status】

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

◆ From October 18, 2009 (Sun) to November 14, 2009 (Sat)

System / Equipment	Items	October 18 (Sun) to October 24 (Sat)	October 25 (Sun) to October 31 (Sat)	November 1 (Sun) to November 7 (Sat)	November 8 (Sun) to November 14 (Sat)	Status of Inspection / Restoration
Unit No.5	Turbine facilities	Turbine inspection				High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on May 25.
	Other facilities	Main transformer inspection				Carrying in and installation work commenced on Mar. 25.
		House transformer inspection				5A, 5B Carrying in and installation work commenced on Apr. 25.
		Excitation transformer inspection				Carrying in and installation work commenced on Mar. 2.
		500kV power cable inspection				Laying cables commenced on Aug. 10. Voltage application test to be conducted on Nov. 5.
		Main exhaust duct inspection / restoration				Restoration work of duct to be conducted from Jun. 8 to Oct. 24.
		Circulating water pipe inspection				Foundation improvement, excavating work, and inspection of pipes commenced on Oct. 25, 2008.
	Seismic reinforcement	Seismic reinforcement works such as pipe supports				Reinforcement work commenced on Apr. 28.
Seismic reinforcement works for stack				Reinforcement work commenced on Jun. 23.		
Unit No.6	Functional test for the entire plant				Final evaluation of functional tests for the entire plant completed on Sep. 28.	
Unit No.7	Functional test for the entire plant				Final evaluation of functional tests for the entire plant completed on Jun. 19.	
	Planned shutdown of the unit				Unit shutdown for refueling conducted from Sep. 26.	
Transformer (common) / Switch Yard	High-voltage start-up transformer #2 inspection				Carrying in and installation work to be commenced on Nov. 9.	
	On-site check / inspection / restoration of the oil protection bank for the transformer				Unit No.1 Restoration work completed on Oct. 3. Unit No.2 Preparation for restoration work commenced on May 20, 2008.	
Environmental Facilities	House boilers inspection				(Arahama-side) 1A Inspection to be conducted from Apr. 8, 2008 to late November 2009. 3A The electric boiler transformer carrying in completed on Oct. 13.	
	Restoration work of filtrate tank / demineralized tank on Arahama-side				Restoration work of No.1 demineralized tank commenced on May 26. Restoration work of No.1 filtrate tank commenced on Jun. 1.	
Others	Restoration work for solid waste storage facility				Prevention countermeasure for drum falling commenced on Jan. 16.	
	Restoration work for administration building / information building, etc.				Restoration work for administration building and information building is underway.	
	Reinforcement works for spent fuel transportation cask storage building				Preparation for reinforcement work to be conducted from Aug. 24 to Nov. 1. Reinforcement work to be commenced on Nov. 2.	
	Construction of seismic-isolated essential buildings				Construction commenced on Oct. 14, 2008.	
	Restoration of laundry facility building on Arahama-side				Restoration work commenced on Jan. 30.	
	Reconstruction of arrestor steel tower on Arahama-side				Reconstruction commenced on Jun. 17.	
	Reconstruction of arrestor steel tower on Ominato-side				Reconstruction commenced on Sep. 3.	
	Restoration and reinforcement work for the on-site / outside roads & slope, etc.				Restoration work for roads inside and outside of the site currently in progress. Maintenance work of the slope in front of sub protection headquarter office commenced on May 13. Restoration work of Daini Takamachi Bridge commenced on May 12. Maintenance work for the slope behind Daini Kigyuu Center commenced on Oct. 20.	
Restoration work for port facility				Restoration work for bank protection commenced on Apr. 3, 2008.		

※ 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.