

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 September 6, 2009 (Sun) to October 3, 2009 (Sat)

System / Equipment	Items	September 6 (Sun) to September 12 (Sat)	September 13 (Sun) to September 19 (Sat)	September 20 (Sun) to September 26 (Sat)	September 27 (Sun) to October 3 (Sat)	Status of Inspection / Restoration	
Unit No.1	Turbine facilities	Turbine inspection				High-pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commenced on Nov. 17, 2008.	
	Other facilities	Main transformer inspection				Carrying in and installation work commenced on Apr. 20.	
		House transformer inspection				1A, 1B Carrying in and installation work commenced on Mar. 30.	
		Excitation transformer inspection				Carrying in and installation work commenced on Mar. 30.	
		Main generator inspection				Inspection commenced on Feb. 7, 2008.	
		500kV power cable inspection				Laying cables commenced on Jun. 2.	
		Main exhaust duct inspection / restoration				Restoration of substructure commenced on Dec. 1, 2008. Restoration work of main exhaust duct commenced on Jul. 29, 2009.	
		Circulating water pipe inspection				Foundation improvement, excavating work, and inspection of pipes commenced on Aug. 6, 2008.	
	Seismic reinforcement	Seismic reinforcement works such as pipe supports				Reinforcement work commenced on Jul. 16.	
		Seismic reinforcement works for reactor building overhead crane				Reinforcement work commenced on Jun. 9.	
		Seismic reinforcement works for stack (Unit No.1 and Unit No.2)				Reinforcement work commenced on Jul. 27.	
		Seismic reinforcement works for the fuel handling machine				Reinforcement work commenced on Jan. 30.	
		Seismic reinforcement works for emergency intake channel				Foundation improvement work commenced on Feb. 9.	
	Unit No.2	Reactor facilities	Reactor recirculation piping preventive maintenance				Preparation work commenced on Dec. 16, 2008. Ultrasonic testing completed on Sep. 3.
		Turbine facilities	Turbine inspection				High-pressure turbine and low-pressure turbine (A) internal inspection completed.
Other facilities		House transformer inspection				Transportation into the factory is underway.	
		Excitation transformer inspection				Transportation into the factory is underway.	
		Main generator inspection				Inspection commenced on Mar. 19, 2008.	
Main exhaust duct inspection / restoration				Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substructure commenced on Dec. 1, 2008.			
Unit No.3	Turbine facilities	Turbine inspection				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 commenced on Jun. 25, 2008. (Replacement of wear and contacted blades.)	
	Other facilities	Main transformer inspection				Carrying in and installation work commenced on Aug. 10.	
		House transformer inspection				3A, 3B Installation work commenced on Nov. 18, 2008.	
		Excitation transformer inspection				Installation work commenced on Nov. 18, 2008.	
		Main generator inspection				Inspection commenced on Feb. 20, 2008.	
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive				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				Laying cables commenced on Jul. 17.	
		Main exhaust duct inspection / restoration				Preparation for restoration work of main exhaust duct completed on Aug. 26, 2009. Restoration work commenced on Sep. 3. Restoration work of substructure commenced on Jan. 9.	
	Circulating water pipe inspection				Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16, 2008.		
	Seismic reinforcement	Seismic reinforcement works for stack				Reinforcement work commenced on Jul. 21	
Unit No.4	Turbine facilities	Turbine inspection				High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on Aug. 3.	
	Other facilities	Main transformer inspection				Carrying in and installation work commenced on Aug. 28.	
		House transformer inspection				Carrying in and installation work commenced on Sep. 2.	
		Excitation transformer inspection				Carrying in and installation work commenced on Sep. 2.	
		Main generator inspection				Inspection commenced on Jan. 15, 2008.	
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive				Carrying in and installation work commenced on Jun. 12.	
		Main exhaust duct inspection / restoration				Preparation for restoration work commenced on Jun. 23, 2008.	
	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building				Reinforcement work completed on Sep. 7.	
		Seismic reinforcement works for reactor building overhead crane				Preparation for reinforcement work to be commenced on Sep. 14.	
Seismic reinforcement works for stack				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 September 6, 2009 (Sun) to October 3, 2009 (Sat)

System / Equipment	Items	September 6 (Sun) to September 12 (Sat)	September 13 (Sun) to September 19 (Sat)	September 20 (Sun) to September 26 (Sat)	September 27 (Sun) to October 3 (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.
		Main exhaust duct inspection / restoration				Restoration work of duct to be conducted from Jun. 8 to Oct. 10.
		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 reactor building overhead crane				Reinforcement work completed on Aug. 28.
		Seismic reinforcement works for stack				Reinforcement work commenced on Jun. 23.
Seismic reinforcement works for the fuel handling machine				Reinforcement work to be conducted from Apr. 23 to Sep. 24.		
Unit No.6	Functional test for the entire plant				Inspection after generating power at approx. 50% of the rated output conducted on Sep. 4. Inspection after generating power at approx. 50% of the rated output conducted on Sep. 6.	
Unit No.7	Functional test for the entire plant				Final evaluation of functional tests for the entire plant completed on Jun. 19.	
Transformer (common) / Switch Yard	High-voltage start-up transformer #2 inspection				Transportation into the factory is underway.	
	On-site check / inspection / restoration of the oil protection bank for the transformer				Unit No.1 Restoration work commenced on Oct. 4, 2008. Unit No.2 Preparation for restoration work commenced on May 20, 2008. Unit No.4 Restoration work completed on Aug. 28, 2009. Scrubbing of soil contaminated by oil leakage completed on Aug. 25, 2009.	
Environmental Facilities	House boilers inspection				(Arahama-side) 1A Inspection to be conducted from Apr. 8, 2008 to late November 2009. 3A Transportation of the electric boiler transformer to the factory is underway.	
	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 commenced on Aug. 24. Reinforcement work to be commenced in early October.	
	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 to be 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.	
	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.