

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 June 14, 2009 (Sun) to July 11th, 2009 (Sat)

System / Equipment		Items	June 14th (Sun) to June 20th (Sat)	June 21st (Sun) to June 27th (Sat)	June 28th (Sun) to July 4th (Sat)	July 5th (Sun) to July 11th (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	Submerged equipment inspection on ground floor 5 of the reactor combination building	◆						Restoration work to be conducted from Mar. 17, 2008 to Jun. 26, 2009.
		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	◆						Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substruction commenced on Dec. 1, 2008.
		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	◆						Preparation for reinforcement work commenced on Mar. 10.
		Seismic reinforcement works for the roof truss of the reactor building	◆						Reinforcement work commenced on Jan. 22.
		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)	◆						Preparation for reinforcement work commenced on Feb. 16. Reinforcement work to be commenced in mid-July.
		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	◆					Perparation work commenced on Dec. 16, 2008. Ultrasonic testing commenced on Feb. 18. Preventive maintenance of branch pipe commenced on Jun. 15.	
	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 substruction commenced on Dec. 1, 2008.		
Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building	◆					Reinforcement work commenced on Jun. 15.		
Unit No.3	Reactor facilities	Reactor recirculation piping preventive maintenance	◆					Preventive maintenance commenced on Sep. 12, 2008. Welding of piping cut-out part completed on Jun. 16.	
	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	◆					Transportation into the factory is underway.	
		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	◆					Preparation work for laying cables to be conducted from May 20 to Jul.16. Laying cables to be commenced on Jul. 17.	
		Main exhaust duct inspection / restoration	◆					Preparation for restoration work commenced on Jul. 23, 2008. Restoration of substruction 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 the roof truss of the reactor building	◆					Reinforcement work commenced on Nov. 27, 2008.		
	Seismic reinforcement works for stack	◆					Preparation for reinforcement work commenced on Feb. 2. Reinforcement work to be commenced in mid-July.		
Unit No.4	Turbine facilities	Turbine inspection *	◆					High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection to be commenced in early July.	
	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 Jan. 15, 2008. Carrying in of roter to be conducted on Jul. 7.	
		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 commenced on May 18.	
		Seismic reinforcement works for stack	◆					Preparation for reinforcement work commenced on Feb. 2. Reinforcement work to be commenced in early July.	

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 June 14, 2009 (Sun) to July 11th, 2009 (Sat)

System / Equipment		Items	June 14th (Sun) to June 20th (Sat)	June 21st (Sun) to June 27th (Sat)	June 28th (Sun) to July 4th (Sat)	July 5th (Sun) to July 11th (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.
		Main exhaust duct inspection / restoration					Restoration work of duct commenced on Jun. 8.
		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 commenced on May 28.
		Seismic reinforcement works for stack	▼				Preparation for reinforcement work commenced on Feb. 2. Reinforcement work to be commenced on Jun. 22.
		Seismic reinforcement works for the fuel handling machine					Reinforcement work commenced on Apr. 23.
Unit No.6	Turbine facilities	Turbine inspection *					High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection completed on Jun. 10.
	Verification of system integrity	System functional test	▼▼				
Unit No.7		Functional test for the entire plant					System functional tests completed on Jun. 10.
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.3 Restoration work to be conducted from Aug. 2, 2008 to Jun. 19, 2009. Unit No.4 Restoration work commenced on Dec. 13, 2008. Unit No.5 Restoration work to be conducted from Aug. 27, 2008 to Jun. 30, 2009. Scrubbing of soil contaminated by oil leakage commenced on Sep. 16, 2008.
Environmental Facilities		House boilers inspection					(Arahama-side) 1A Inspection to be conducted from Apr. 8, 2008 to September 2009. 3A Preparation for transportation of electric boiler transformer completed on Jun. 12. Carrying out completed on Jun. 13.
		Restoration work of filtrate tank / demineralized tank on Arahama-side					Preparation for restoration work of No.1 filtrate tank/demineralized tank commenced on Dec. 2, 2008. Restoration work of demineralized tank commenced on May 26. Restoration work of 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.
		Construction of seismic-isolated essential buildings					Construction commenced on Oct. 14, 2008.
		Restoration of laundry facility building on Arahama-side					Restoration work to be conducted from Jan. 30 to late September.
		Reconstruction of arrestor steel tower on Arahama-side	▼				Preparation work for reconstruction completed on Jun. 16. Reconstruction commenced on Jun. 17.
		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.