

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 28, 2009 (Sun) to July 25, 2009 (Sat)

System / Equipment		Items	June 28 (Sun) to July 4 (Sat)	July 5 (Sun) to July 11 (Sat)	July 12 (Sun) to July 18 (Sat)	July 19 (Sun) to July 25 (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 completed on Jun. 30.
		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 substructure 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 on Jul. 15.
		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 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 substructure 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	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 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 the roof truss of the reactor building					▼		Reinforcement work to be conducted from Nov. 27, 2008 to Jul. 7, 2009.
Seismic reinforcement works for stack						▼		Preparation for reinforcement work commenced on Feb. 2. Reinforcement work to be commenced on Jul. 13.	
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. Rotor carrying in 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 on Jul. 6.	

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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)

System / Equipment	Items	June 28 (Sun) to July 4 (Sat)	July 5 (Sun) to July 11 (Sat)	July 12 (Sun) to July 18 (Sat)	July 19 (Sun) to July 25 (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				Preparation work for laying cables commenced on Jun. 29. Laying cables to be commenced in early August.
		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				Reinforcement work commenced on Jun. 23.
Seismic reinforcement works for the fuel handling machine				Reinforcement work commenced on Apr. 23.		
Unit No.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.3 Restoration work to be conducted from Aug. 2, 2008 to Jul. 17, 2009. Unit No.4 Restoration work commenced on Dec. 13, 2008. Unit No.5 Restoration work to be conducted from Aug. 27, 2008 to Jul. 17, 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 Transportation of the electric boiler transformer to the factory is underway.	
	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				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.