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)

	System / Equipment	Items	Feb. 8th (Sun) to Feb. 14th (Sat)	Feb. 15th (Sun) to Feb. 21st (Sat)	Feb. 22nd (Sun) to Feb. 28th (Sat)	Mar. 1st (Sun) to Mar. 7th (Sat)	Status of Inspection / Restoration
	Turbine facilities	Turbine inspection *					Low-pressure turbine (B) internal inspection completed. High-pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commenced on N 17, 2008.
	Other facilities	Submerged equipment inspection on ground floor 5 of the reactor combination building					Restoration work commenced on Mar. 17, 2008.
		House transformer inspection					Transportation into the factory is underway.
		Excitation transformer inspection					Transportation into the factory is underway.
		Main generator inspection					Inspection commenced on Feb. 7, 2008. Withdrawal of rotor completed on Mar. 5, 2008.
		500kV power cable inspection				$\overline{}$	Preparation work to be commenced on Mar. 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 for the roof truss of the reactor building					Reinforcement work communed on Jan. 22.
		Seismic reinforcement works for stack (Unit No.1 and Unit No.2)		$\overline{}$			Preparation for reinforcement work to be commenced on Feb. 16.
		Seismic reinforcement works for the fuel handling machine					Preparation for reinforcement work completed on Jan. 29. Reinforcement work commenced on Jan. 30.
		Seismic reinforcement works for emergency intake channel	$\overline{}$				Preparation for reinforcement work completed on Feb. 8. Foundation improvement work commenced on Feb. 9.
	Reactor facilities	Reactor recirculation piping preventive maintenance					Perparation work commenced on Dec. 16, 2008. Ultrasonic testing to be commenced on Feb. 18.
	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. Transportation of rotor into the factory completed on Aug. 22, 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	V				Preparation for reinforcement work commenced on Feb. 9.
nit No.3	Reactor facilities	Reactor recirculation piping preventive maintenance					Preventive maintenance commenced on Sep. 12, 2008. Preparation for radio frequency induction heating commenced on Jan. 23.
	Turbine facilities	Turbine inspection *					Low-pressure turbine (B) (C) detailed inspection commenced on May 7, 2008. High-pressure turbine and low pressure turbine (A) detailed inspection commenced on Jun. 25, 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. Rotor carrying in completed on Aug. 1, 2008.
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive					Transportation into the factory is underway.
		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.
Unit No.4	Turbine facilities	Turbine inspection *					High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection conducted from Jun. 19 to to Sep. 30, 2008 and to be commenced in Ap 2009.
	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. Transportation of rotor into the factory completed on Jun. 11, 2008.
		Inspection of power supply input transformer of the primary loop recirculation system					Transportation into the factory is underway.
		adjustable speed drive					

Preparation for reinforcement work commenced on Feb. 2.

Seismic reinforcement works for stack

Seismic reinforcement

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)

[Inspection/Restoration Status]

	/Restoration Status] bruary 8th, 2009 (Sun) to March 7th					
	System / Equipment	Items	Feb. 8th (Sun) to Feb. 14th (Sat) Feb. 15th (Sun) to Feb. 21st (Sat) Feb. 22nd (Sun) to Feb. 28th		Status of Inspection / Restoration	
Unit No.5	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.	
	Seismic reinforcement	Excitation transformer inspection			Carrying in and installation work to be commenced on Mar. 2.	
		Main generator inspection			Restoration work commenced on Sep. 11, 2008.	
		500kV power cable inspection		V	Removal of cables to be conducted from Jun. 30, 2008 to Feb. 27, 2009.	
		Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Jun. 2, 2008. Restoration of substruction commenced on Nov. 20, 2008.	
		Circulating water pipe inspection			Foundation improvement, excavating work, and inspection of pipes commenced on Oct. 25, 2008.	
		Seismic reinforcement works for the roof truss of the reactor building			Reinforcement work commenced on Jan. 19.	
		Seismic reinforcement works for stack			Preparation for reinforcement work commenced on Feb. 2.	
Unit No.6	Reactor facilities	Control rod drive inspection			Disassembly and inspection of the control rod drive completed on Feb. 3.	
		Fuel-load work			Fuel-load work to be conducted from Feb. 4 to Feb. 15. Core status confirmation to be conducted on Feb. 16 and Feb. 17.	
		Reactor pressure vessel closure			Closure work to be conducted from Feb. 18 to Mar. 4.	
		Primary containment vessel closure			Closure work to be conducted from Mar. 5 to Mar. 12.	
	Turbine facilities	Turbine inspection *			High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on May 12, 2008.	
	Turonic facilities				Low-pressure turbine restoration work of blades commenced on Jan. 8.	
	Other facilities Verification of system integrity	Main generator inspection			Inspection commenced on Mar. 10, 2008. Withdrawal of rotor completed on Apr. 3, 2008. Restoration work commenced on Dec. 13, 2008.	
		System functional test			System functional test commenced on Dec. 4, 2008. Reactor shat-down margin inspection to be conducted on Feb. 17. Selected control rod insertion inspection to be conducted on Feb. 17.	
Unit No.7	Turbine facilities	Turbine inspection *			High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection completed on Feb. 3.	
	Other facilities	Main generator inspection			Leakage confirmation tests completed on Feb. 7. Reinforcement work completed on Feb. 7.	
	Verification of system integrity	System functional test			System functional tests completed on Feb. 4.	
Transforme	er (common) / Switch Yard	High-voltage start-up transformer #2 inspection			Inspection commenced on Jan. 19.	
		On-site check / inspection / restoration of the oil protection bank for the transformer			it No.1 Restoration work commenced on Oct. 4, 2008. it No.2 Preparation for restoration work commenced on May 20, 2008. Recovery of oil-contaminated soil to be conducted from Jul. 12, 2008 to Fel	
					2009. Unit No.3 Restoration work commenced on Aug. 2, 2008.	
		On-site check / inspection / restoration of the oil protection bank for the transformer			Jnit No.4 Restoration work commenced on Dec. 13, 2008.	
					Unit No.5 Restoration work commenced on Aug. 27, 2008. Scrubbing of soil contaminated by oil leakage commenced on Sep. 16, 2008.	
Environmer	ntal Facilities	House boilers inspection			(Arahama-side)	
			lacksquare		1A Inspection to be conducted from Apr. 8, 2008 to July 2009.	
					2B Inspection to be conducted from Apr. 8, 2008 to Feb. 19, 2009.	
		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.	
Others		Restoration work for solid waste storage facility			Prevention countermeasure for drum falling commrnced 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.	
		Outdoor fire protection system piping to be placed above ground, etc.			(Arahama-side) Work on installing fire protection system piping above ground commenced on Apr. 28, 2008. Replacement work on the fire protection system	
					piping around the Arahama-side building from underground to above ground completed on Jun. 28, 2008.	
		Relocation work of ground motion observation points			Seismometer installation work to be conducted from Jan. 26 to mid-March.	
		Restoration of laundry facility building on Arahama-side			Preparation for restoration work completed on Jan. 29. Restration work to be conducted from Jan. 30 to late September.	
		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.	
		Restoration work for port facility			Restoration work for bank protection commenced on Apr. 3, 2008. The works to be suspended from Dec. 13, 2008 to March 2009 for the winter sesason.	

^{*} 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.

^{*} Turbine inspection work will be conducted as follows:

- All units will be inspected in detail by opening all turbine easings after conducting internal inspection.

- Internal inspection will be conducted by opening the high-pressure turbine (a) and visually checking for damages or significant deformation in major components such as the casings and blades.

(For the unit No. 1, since the high-pressure turbine and low-pressure turbines (A) and (C) had been opened for regular outage at the time of the earthquake, inspections will be conducted for the low-pressure turbine (B) that had not been opened.)

- Detailed inspection includes, in addition to regular full-scope inspection, special inspection in consideration of the earthquake and necessary repairs in case damages are found.