## 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) (1/3)

	System / Equipment	Items	Oct. 5th (Sun) to Oct. 11th (Sat)	Oct. 12th (Sun) to Oct. 18th (Sat)	Oct. 19th (Sun) to Oct. 25th (Sat) Oct	t. 26th (Sun) to Nov. 1st (Sat)	Status of Inspection / Restoration
Unit No.1	Turbine facilities	Turbine inspection *					Low-pressure turbine (B) internal inspection completed.
	Other facilities	Submerged equipment inspection on ground floor 5 of the reactor combination building					Restoration work commenced on Mar. 17.
		House transformer inspection					1A, 1B On-site transportation completed on Jul. 9.
		Excitation transformer inspection					Transportation into the factory is underway.
		Main generator inspection					Inspection commenced on Feb. 7. Withdrawal of rotor completed on Mar. 5.
		Stack inspection		_			Inspection of pile foundation (additional inspection) to be commenced on Oct. 14.
		Main exhaust duct inspection / restoration					Preparation for restoration work commenced on Aug. 9.
		Circulating water pipe inspection					Foundation improvement, excavating work, and inspection of pipes commenced on Aug. 6.
Unit No.2	Turbine facilities	Turbine inspection *					High-pressure turbine and low-pressure turbine (A) internal inspection completed.
		House transformer inspection					Transportation into the factory is underway.
		Excitation transformer inspection					On-site transportation completed on May 16.
		Main generator inspection					Inspection commenced on Mar. 19. Transportation of rotor into the factory completed on Aug. 22.
		Main exhaust duct inspection / restoration					Preparation for restoration work commenced on Aug. 9.
Unit No.3	Reactor facilities	Reactor recirculation piping preventive maintenance					Perparation work commenced on Jul. 14. Preventive maintenance commenced on Sep. 12. Ultrasonic testing to be commenced on Oct. 16.
		Inspection of new fuel storage warehouse and new fuels in the warehouse					Inspection of new fuels completed on Sep. 26. Inspection of new fuel storage warehouse completed on Sep. 8.
	Turbine facilities	Turbine inspection *					Low-pressure turbine (B) (C) detailed inspection commenced on May 7.  High-pressure turbine and low pressure turbine (A) detailed inspection commenced on Jun. 25.  Low-pressure turbine (A) (B) restoration work of blades commenced on Jun. 25. (Replacement of wear and contacted blades.)
	Other facilities	Main transformer inspection					Transportation into the factory is underway.
		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. 20. Rotor carrying in completed on Aug. 1.
		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.
		Circulating water pipe inspection					Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16.
Jnit 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 and to be commenced on Jan 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. Transportation of rotor into the factory completed on Jun. 11.
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive					Preparation for transportation into the factory commenced on Aug. 25.
		Stack inspection					Inspection for substructure of piles to be conducted from Jul. 1 to Oct. 10.
		Stack inspection					

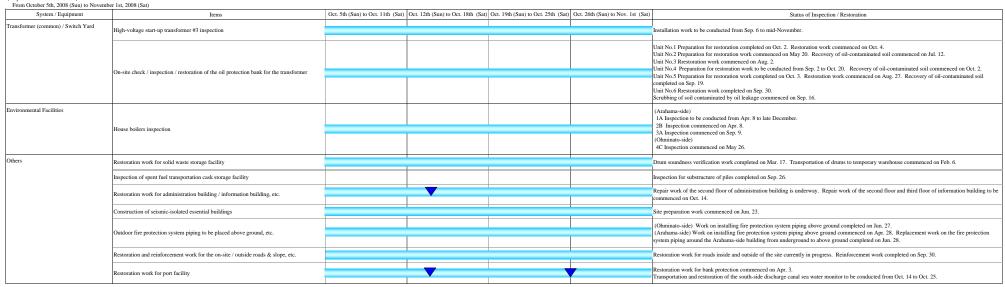
## Work Schedule of the Main Inspection/Restoration of the Kashiwazaki-Kariwa Nuclear Power Station in Response to the Niigata-Chuetsu-Oki Earthquake (during 4 Weeks) (2/3)

[Inspection/Restoration Status

	ober 5th, 2008 (Sun) to November System / Equipment		Oot 5th (Sun) to Oot 11th (Sot)	Oct. 12th (Sun) to Oct. 18th (Sat)	Oot 10th (Sun) to Oot 25th (Sot)	Out 26th (Sum) to Nov. 1st (Sat)	Status of Inspection / Restoration	
		Items		Oct. 12th (Suh) to Oct. 18th (Sat)	Oct. 19th (Suh) to Oct. 25th (Sat)		*	
		Jet pump inspection					Root-cause analysis is under consideration. Confirmation of the status of positioner bullto be conducted on Oct. 9 and 10.	
	Turbine facilities	Turbine inspection *					High-pressure turbine and low-pressure turbine (A) internal inspection completed.	
		House transformer inspection					Transportation into the factory is underway.	
		Excitation transformer inspection					Transportation into the factory is underway.	
		Main generator inspection					Restoration work commenced on Sep. 11.	
		500kV power cable inspection		1		i	Removal of cables commenced on Jun. 30.	
		Main exhaust duct inspection / restoration					Preparation for restoration work commenced on Jun. 2.	
	Turbine facilities	Turbine inspection *					High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on May 12.	
		Main transformer inspection		-		l .	Installation work commenced on Apr. 30.	
		House transformer inspection					6A, 6B Installation work commenced on Apr. 14.	
		Reactor internal pump input transformer inspection					Installation work commenced on Mar. 26. Electrical testing to be conducted from Oct. 15 to Oct. 24.	
		Main generator inspection		· ·	·		Inspection commenced on Mar. 10. Withdrawal of rotor completed on Apr. 3.	
		500kV power cable inspection					Inspection to be conducted from Feb. 9 to Oct. 24. Energization for testing without load completed on Apr. 12.	
		Discharge canal inspection / restoration	_		<u> </u>		Internal inspection of discharge canal and restoration work completed on Jun. 26. Removal of bypass pipe etc. to be conducted from Jul.10 to Oct. 10.	
		Seismic reinforcement works such as pipe supports					Reinforcement work commenced on Jul. 4.	
		Seismic reinforcement works for the roof truss of the reactor building					Reinforcement work commenced on Sep. 3.	
		Seismic reinforcement works for exhaust stack					Reinforcement work commenced on Sep. 5.	
		Seismic reinforcement works for reactor building ceiling crane			<b>V</b>		Preparation for reinforcement work to be commenced on Sep. 26. Reinforcement work to be commenced on Oct. 20.	
		Seismic reinforcement works for fuel handling machine					Reinforcement work commenced on Aug. 22.	
Jnit No.7	Turbine facilities	Turbine inspection *					figh-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection is underway.  .ow-pressure turbine (A) (B) restoration work of blades commenced on Apr. 14. (Replacement of wear and contacted blade.)  .ow-pressure turbine (A) (B) (C) restoration work of blades on the 15th stage commenced on Aug. 1, and restoration work of blades on the 14th stage commenced on Aug. 1, and restoration work of blades on the 14th stage commenced on Aug. 1.	
							the 16th stages commenced on Sep. 25.	
		Main transformer inspection					Installation work completed on Sep. 27.	
		Reactor internal pump input transformer inspection					Electrical testing completed on Jun. 7. Coordinating for the start date of energization for testing without load.	
		Main generator inspection					Restration work commenced on Jul. 14.	
		500kV power cable inspection					Inspection to be conducted from Jan. 22 to Oct. 24. Energization for testing without load completed on Mar. 22.	
	Seismic reinforcement	Seismic reinforcement works such as pipe supports		+			Reinforcement work commenced on Jun. 16.	
		Seismic reinforcement works for the roof truss of the reactor building					Reinforcement work completed on Sep. 30.	
		Seismic reinforcement works for exhaust stack					Reinforcement work to be conducted from Sep. 5 to Oct. 15.	
		Seismic reinforcement works for reactor building ceiling crane					Reinforcement work to be conducted from Sep. 16 to Oct. 27.	
		Seismic reinforcement works for fuel handling machine		-		<b>-</b>	Reinforcement work to be conducted from Aug. 8 to Nov. 2.	
	Verification of system integrity	Second removement works for fuel manding machine					System functional test commenced on Sep. 18.	
			_				System functional test commenced on Sep. 18. Functional test of the flammability control system (B) conducted on Oct. 2.	
		System functional test					Rated capacity verification test for the emergency diesel generator (A) conducted on Oct. 3.	
							Functional test of the flammability control system (A) to be conducted on Oct. 10.  Functional test of stand-by liquid control system to be conducted on Oct. 16.	
							Functional test of stand-by liquid control system to be conducted on Oct. 16.	

## 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)(3/3)

## [Inspection/Restoration Status]



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.

- All units will be inspected in detail by opening all turbine casings after conducting internal inspection.
- Internal inspection will be conducted by opening the high-pressure turbine and low-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 turbine (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 impact of the earthquake and necessary repairs in case damages are found.

<sup>\*</sup> Turbine inspection work will be conducted as follows: