## 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)

[Inspection/Restoration Status]

System / Equipment	Items	Sep. 28th (Sun) to Oct. 4th (Sat) Oct. 5th (Sun) to Oct. 11th (Sat)	Oct. 12th (Sun) to Oct. 18th (Sat)	Oct. 19th (Sun) to Oct. 25th (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.
	500kV power cable inspection				Removal of cables completed on Sep. 19.
	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.
Other facilities	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.
	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					Low-pressure turbine (B) (C) detailed inspection commenced on May 7.
	Turbine inspection *				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.
Unit No.4 Turbine facilities	Turbine inspection *	<b>-</b>			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 Janua 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.
	Main exhaust duct inspection / restoration				Preparation for restoration work commenced on Jun. 23.

## 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]

System / Equipment	Items	Sep. 28th (Sun) to Oct. 4th (Sat) Oct. 5th (Sun) to Oct. 11th (Sat) Oct. 12th (Sun) to Oct. 18th (Sun)	at) Oct. 19th (Sun) to Oct. 25th (Sat)	Status of Inspection / Restoration
nit No.5 Reactor facilities	Jet pump inspection			Root-cause analysis is under consideration. Confirmation of the status of positioner bollto be conducted on Oct. 9 and 10.
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			Restoration work commenced on Sep. 11.
	500kV power cable inspection			Removal of cables commenced on Jun. 30.
	Stack inspection			Inspection for substructure of piles completed on Sep. 24.
	Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Jun. 2.
it No.6 Turbine facilities	Turbine inspection *			High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on May 12.
Other facilities	Main transformer inspection			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. 17.
Seismic reinforcement	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 Dct. 24. Energization for testing without load completed on Apr. 12.
	Discharge canal inspection / restoration			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. 11.
	Seismic reinforcement works for fuel handling machine		<u>'</u>	Reinforcement work commenced on Aug. 22.
No.7 Turbine facilities	Turbine inspection *			High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection is underway.  Low-pressure turbine (A) (B) restoration work of blades commenced on Apr. 14. (Replacement of wear and contacted blade.)  Low-pressure turbine (A) (B) (C) restoration work of blades on the 15th stage commenced on Aug. 1, and restoration work of blades on the 1 the 16th stages commenced on Sep. 25.
Other facilities	Main transformer inspection			Installation work completed on Sep. 27.
	House transformer inspection			7A, 7B Installation work completed on Sep. 12.
	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.
	Discharge canal inspection / restoration			Internal inspection of discharge canal and restoration work completed on Jun. 7. Removal of bypass pipe etc. completed on Sep. 20.
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		+	Reinforcement work to be conducted from Aug. 8 to Nov. 2.

## 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]

From September 28th, 2008 (Sun) to O	ctober 25th, 2008 (Sat)						
System / Equipment	Items	Sep. 28th (Sun) to Oct. 4th (Sat)	Oct. 5th (Sun) to Oct. 11th (Sat)	Oct. 12th (Sun) to Oct. 18th (Sat)	Oct. 19th (Sun) to Oct. 25th (Sat)	Status of Inspection / Restoration	
Transformer (common) / Switch Yard	High-voltage start-up transformer #3 inspection					nstallation work to be conducted from Sep. 6 to mid-November.	
						Unit No.1 Preparation for restoration work commenced on Jul. 7. Restoration work to be commenced on Oct. 2.	
	On-site check / inspection / restoration of the oil protection bank for the transformer					fait No.2 Preparation for restoration work commenced on May 20. Recovery of oil-contaminated soil commenced on Jul. 12. fait No.3 Rrestoration work commenced on Aug. 2. init No.4 Preparation for restoration work commenced on Sep. 2. Recovery of oil-contaminated soil to be commenced on Oct. 3.	
						Unit No.4 Preparation for restoration work commenced on Sep. 2. Recovery of oil-contaminated soil to be commenced on Oct. 3.  Unit No.5 Preparation for restoration work commenced on Jun. 3. Restoration work commenced on Aug. 27. Recovery of oil-contaminated soil	
						completed on Sep. 19. Unit No.6 Rrestoration work completed on Sep. 30.	
						Scrubbing of soil contaminated by oil leakage commenced on Sep. 16.	
Environmental Facilities						(Arahama-side)	
	House boilers inspection					1A Inspection to be conducted from Apr. 8 to late December.	
						2B Inspection commenced on Apr. 8.	
					1	A Inspection commenced on Sep. 9.  Ohminato-side)	
						4C Inspection commenced on May 26.	
0.1							
Others	Restoration work for solid waste storage facility					Drum soundness verification work completed on Mar. 17. Transportation of drums to temporary warehouse commenced on Feb. 6.	
	Inspection of spent fuel transportation cask storage facility					Inspection for substructure of piles completed on Sep. 26.	
	Restoration work for administration building / information building, etc.					Repair work of the second floor of administration building is underway.	
	Construction of seismic-isolated essential buildings					Site preparation work commenced on Jun. 23.	
						Obelian ide Watering For Company in the second and a large 27	
	Outdoor fire protection system piping to be placed above ground, etc.					(Ohminato-side) Work on installing fire protection system piping above ground completed on Jun. 27.  (Arahama-side) Work on installing fire protection system piping above ground commenced on Apr. 28. Replacement work on the fire protection	
						system piping around the Arahama-side building from underground to above ground completed on Jun. 28.	
	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. Reinforcement work commenced on May 16.	
	Restoration work for port facility					Restoration work for bank protection commenced on Apr. 3.	
						Transportation and restoration of the south-side discharge canal sea water monitor to be conducted from Oct. 14 to Oct. 25.	
					L		

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 inspection win the conducted as formors.

  All units will be inspection on the 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 cybe and component 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: