## 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	Dec. 21st (Sun) to Dec. 27th (Sat	Dec. 28th (Sun) to Jan. 3rd (Sat) Jan. 4th (Sun) to Jan. 4th (Sat) Jan. 11th (Sun) to Jan. 17th (S	Status of Inspection / Restoration
Unit No. l	1 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 No 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
	Other facilities	Submerged equipment inspection on ground floor 5 of the reactor combination building			Restoration work commenced on Mar. 17, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
		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. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
		Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substruction commenced on Dec. 1, 2008. <work 4="" be="" dec="" from="" jan.="" suspended="" to=""></work>
		Circulating water pipe inspection			Foundation improvement, excavating work, and inspection of pipes commenced on Aug. 6, 2008. < Work to be suspended from Dec. 27 to Jan. 4>
	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building			Preparation for reinforcement work commenced on Dec. 11, 2008. < Work to be suspended from Dec. 27 to Jan. 4>
		Emergency intake channel			Preparation for reinforcement work commenced on Dec. 8, 2008. Foundation improvement work to be commenced in January 2009. <work 27="" 4="" be="" dec.="" from="" jan.="" suspen="" to=""></work>
Unit No.2	2 Reactor facilities	Reactor recirculation piping preventive maintenance			Perparation work commenced on Dec. 16, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
	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. < Work to be suspended from Dec. 27 to J
		Main exhaust duct inspection / restoration			Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substruction commenced on Dec. 1, 2008. <work 4="" be="" from="" i="" jan.="" suspended="" to=""></work>
nit No	3 Reactor facilities	Reactor recirculation piping preventive maintenance			Preventive maintenance commenced on Sep. 12, 2008. Ultrasonic testing commenced on Oct. 16, 2008. < Work to be suspended from Dec. 27 to Jan. 4.
	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.)  Work to be suspended from Dec. 27 to Jan. 4>
	Other facilities	Main transformer inspection			Transportation into the factory is underway.
		House transformer inspection			3A, 3B Installation work commenced on Nov. 18, 2008. < Work to be suspended from Dec. 27 to Jan. 4>
		Excitation transformer inspection			Installation work commenced on Nov. 18, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
		Main generator inspection			Inspection commenced on Feb. 20, 2008. Rotor carrying in completed on Aug. 1, 2008. < Work to be suspended from Dec. 27 to Jan. 4>
		Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive			Transportation into the factory is underway.
		Stack inspection			Inspection of stand-by gas treatment system pipe support completed on Dec. 15, 2008.
		Main exhaust duct inspection / restoration	IIII		Preparation for restoration work to be conducted from Jul. 23, 2008 to Jan. 8, 2009. Restoration of substruction to be commenced on Jan. 9, 2009. <worsuspended 27="" 4="" dec.="" from="" jan.="" to=""></worsuspended>
		Circulating water pipe inspection			Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16, 2008. < Work to be suspended from Dec. 27 to Jan. 4>
	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building			Reinforcement work commenced on Nov. 27, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
Unit No.4	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 April
	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. < Work to be suspended from Dec. 27 to J
		Main generator inspection  Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive			Inspection commenced on Jan. 15, 2008. Transportation of rotor into the factory completed on Jun. 11, 2008. < Work to be suspended from Dec. 27 to.  Transportation into the factory is underway.

## 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]

◆From December 2 | st. 2008 (Sun) to January 17th. 2009 (Sat)

Unit No.5 Tu	system / Equipment	Items					
_			()	Dec. 28th (Sun) to Jan. 5tu (Sat)	Jan: 4th (Sun) to Jan: 4th (Sat)	Jan. 11th (Sun) to Jan. 17th (Sat)	Status of Inspection / Restoration
0	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, 2008.    Work to be suspended from Dec. 27 to Jan. 4>
		500kV power cable inspection					Removal of cables commenced on Jun. 30, 2008 <work 26="" 5="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
		Main exhaust duct inspection / restoration					Preparation for restoration work commenced on Jun. 2, 2008. Restoration of substruction commenced on Nov. 20, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
		Circulating water pipe inspection					Foundation improvement, excavating work, and inspection of pipes commenced on Oct. 25, 2008. < Work to be suspended from Dec. 27 to Jan. 4>
S	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building					Preparation for reinforcement work commenced on Dec. 8, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
Unit No.6 T	Furbine facilities	Turbine inspection *					High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on May 12, 2008. < Work to be suspended from Dec. 28 to Jan. 4>
0	Other facilities	Reactor internal pump input transformer inspection					Installation work commenced on Mar. 26, 2008. Electrical testing to be conducted from Oct. 15, 2008 to mid-January, 2009. < Work to be suspended from Dec. 27 to Jan. 4>
		Main generator inspection					Inspection commenced on Mar. 10, 2008. Withdrawal of rotor completed on Apr. 3, 2008. Restoration work commenced on Dec. 13, 2008. Work to be suspended from Dec. 27 to Jan. 4>
		Stack inspection					Inspection of outdoor duct completed on Dec. 19, 2008.
S	Seismic reinforcement	Seismic reinforcement works such as pipe supports					Reinforcement work commenced on Jul. 4, 2008.    Work to be suspended from Dec. 27 to Jan. 5>
	•	Seismic reinforcement works for reactor building overhead crane					Reinforcement work to be conducted from Oct. 31, 2008 to Jan. 14, 2009. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
		Seismic reinforcement works for fuel handling machine					Reinforcement work commenced on Aug. 22, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
V	Verification of system integrity						System functional test commenced on Dec. 4, 2008 < Work to be suspended from Dec. 27 to Jan. 4> Interlock functional test of liquid waste storage facility and disposal equipment #1 conducted on Dec. 11, Dec. 17, and Dec. 19, and to be conducted on Dec. 25, 2008.
		System functional test					Rated capacity verification test of the emergency diesel generator conducted on Dec. 15 and Dec. 18, 2008. Functional test of automatic depressurization system conducted on Dec. 18, 2008. Functional test of primary containment vessel isolation valve conducted on Dec. 20, 2008. Functional test of primary containment vessel solation valve conducted on Dec. 25, 2008.
Unit No.7 To	Furbine facilities	Turbine inspection *					High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection is underway.  Low-pressure turbine (A) (B) (C) restoration work of blades completed on Dec. 19, 2008.  Low-pressure turbine restoration of easing commenced on Dec. 19, 2008.  - Work to be suspended from Dec. 30 to Jan. 4>
c	Other facilities	Main generator inspection					Restration work commenced on Jul. 14, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
ν	/erification of system integrity	* '					System functional test commenced on Sep. 18, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>

## 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 December 21st, 2008 (Sun) to Janua	ary 17th, 2009 (Sat)					
System / Equipment	Items	Dec. 21st (Sun) to Dec. 27th (Sat)	Dec. 28th (Sun) to Jan. 3rd (Sat)	Jan. 4th (Sun) to Jan. 4th (Sat)	Jan. 11th (Sun) to Jan. 17th (Sat)	Status of Inspection / Restoration
Transformer (common) / Switch Yard	High-voltage start-up transformer #2 inspection				<u> </u>	Preparation for inspection to be commenced on Jan. 6, 2009.
	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. Recovery of oil-contaminated soil commenced on Jul. 12, 2008.  Unit No.3 Restoration work commenced on Dec. 13, 2008.  Very Work to be suspended from Dec. 27 to Jan. 5>  Unit No.4 Restoration work commenced on May 27, 2008.  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 July 2009.  2B Inspection commenced on Apr. 8, 2008.  (Ohminate-side)  4C Inspection completed on Dec. 17, 2008.  4Work to be suspended from Dec. 27 to Jan. 4>
	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. < Work to be suspended from Dec. 27 to Jan. 4>
Others	Restoration work for solid waste storage facility					Preparation work for prevention countermeasure for drum falling to be conducted from Nov. 29, 2008 to January 2009. < Work to be suspended from Dec. 27 to Jan. 4>
	Restoration work for administration building / information building, etc.					Restoration work for administration building and information building is underway. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""> Repair work of the second floor and third floor of information building completed on Dec. 19, 2008.</work>
	Construction of seismic-isolated essential buildings					Construction commenced on Oct. 14, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
	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 Work to be suspended from Dec. 27 to Jan. 5>
	Relocation work of ground motion observation points					Boring work commenced on Oct. 20, 2008. <work 24="" 6="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
	Restoration and reinforcement work for the on-site / outside roads & slope, etc.				1	Restoration work for roads inside and outside of the site currently in progress. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>
	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 season.

\* 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.

Period to suspend the works for the year-end and new year recess.

- \* Turbine inspection work will be conducted as follows:
- All units will be inspection with detail by opening all turbine casings after conducting internal inspection.

   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 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 impact of the earthquake and necessary repairs in case damages are found.