## 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)

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Main generator impection  Main exhaust duct impection restoration  Main restoration work commenced on May 9, 2008. Restoration of substruction commenced on May 17, 2008.  Turbine inspection  Turbine impection restoration  Main restoration management under the factory of the support of the factory of the support of from Dec 27 to Jan. 45-  Main generator impection  Main gener	
Main exhaust duel impection / restoration    Preguntation for noticeation work commenced on Aug. 9, 2008. Restoration of substruction commerced on Jun. 4.	
Name exclusion des impection printing preventive maintenance commenced on Sep. 12, 2008. Unisson's testing commenced on Oct. 16, 2008. Turbine facilities Turbine impection " Turbine impection " Turbine impection " Turbine impection " Turbine impection or imp	18. <work 27="" be="" dec.="" from="" suspended="" td="" to="" to<=""></work>
Tables facilities  Main transformer inspection  Other facilities  Main transformer inspection  Transportation into the factory is undervay.  Excitation transformer inspection  Transportation for restoration  Angle pressure turbine (a) (9) citated inspection commenced on Jun. 25, 2008. (Replacement of we Work to be suppended from Dec. 27 to Jun. 45-  Transportation into the factory is undervay.  Angle pressure turbine (a) (establed inspection commenced on Nov. 18, 2008. (Work to be suppended from Dec. 27 to Jun. 45-  Excitation transformer inspection  Installation work commenced on Nov. 18, 2008. (Work to be suppended from Dec. 27 to Jun. 45-  Excitation transformer inspection  Inspection of power supply input transformer of the primary loop recirculation system algoritable speed drive  Inspection of power supply input transformer of the primary loop recirculation system algoritable speed drive  Stack inspection  Inspection of stand-by gas treatment system pipe support completed on Dec. 15, 2008.  Main exhaust duct inspection  Transportation into the factory is undervay.	Dec. 1, 2008. <work be="" from<="" suspended="" td="" to=""></work>
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Excitation transformer inspection  Main generator inspection  Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive  Stock inspection  Main exhaust duct inspection / restoration  Circulating water pipe inspection  Seismic reinforcement  Seismic reinforcement  Seismic reinforcement  Seismic reinforcement works for the roof truss of the reactor building  Turbine facilities  Turbine inspection  House transformer inspection  Turbine inspection  House transformer inspection  Excitation transformer inspection  Inspection of memory is underway.  Inspection of stand-by gas treatment system pipe support completed on Dec. 15, 2008.  Inspection of stand-by gas treatment system pipe support completed on Dec. 15, 2008.  Preparation for restoration work commenced on Jul. 23, 2008. Restoration to substruction to be commence from Dec. 27 to Jan. 4>  Circulating water pipe inspection  Seismic reinforcement works for the roof truss of the reactor building  Reinforcement work commenced on Nov. 27, 2008. «Work to be suspended from Dec. 27 to Jan. 4>  High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection conducted from Jun. 19 to to Turbine inspection  Turbine facilities  House transformer inspection  Turbine inspection  Transportation into the factory is underway.	
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Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive  Stack inspection  Main exhaust duct inspection / restoration  Circulating water pipe inspection  Seismic reinforcement  Seismic reinforcement works for the roof truss of the reactor building  Transportation into the factory is underway.	
Adjustable speed drive  Stack inspection  Main exhaust duct inspection / restoration  Circulating water pipe inspection  Seismic reinforcement  Seismic reinforcement works for the roof truss of the reactor building  Turbine facilities  House transformer inspection  Other facilities  House transformer inspection  Stack inspection of stand-by gas treatment system pipe support completed on Dec. 15, 2008.  Restoration of substruction to be commence from Dec. 27 to Jan. 4>  Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16, 2008. «Work to Buspended from Duc. 27 to Jan. 4>  High-pressure turbine (A) (B) (C) detailed inspection conducted from Jun. 19 to to Other facilities  House transformer inspection  Transportation into the factory is underway.  Excitation transformer inspection	ided from Dec. 27 to Jan. 4>
Main exhaust duct inspection / restoration Wilder pipe inspection  Circulating water pipe inspection  Seismic reinforcement works for the roof truss of the reactor building  Turbine facilities  Turbine facilities  House transformer inspection  Main exhaust duct inspection / restoration work commenced on Jul. 23, 2008. Restoration of substruction to be commenced from Dec. 27 to Jan. 4>  Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16, 2008. «Work to Poundation improvement works for the roof truss of the reactor building  Reinforcement work commenced on Nov. 27, 2008. «Work to be suspended from Dec. 27 to Jan. 4>  High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection conducted from Jun. 19 to to Other facilities  House transformer inspection  Excitation transformer inspection  Transportation into the factory is underway.	
Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16, 2008. «Work to Seismic reinforcement works for the roof truss of the reactor building Reinforcement work commenced on Nov. 27, 2008. «Work to be suspended from Dec. 27 to Jan. 4> and the facilities Turbine inspection *  Urbine facilities House transformer inspection  High-pressure turbine (A) (B) (C) detailed inspection conducted from Jun. 19 to to Other facilities  Excitation transformer inspection  Transportation into the factory is underway.	
Seismic reinforcement Seismic reinforcement works for the roof truss of the reactor building  Reinforcement work commenced on Nov. 27, 2008. «Work to be suspended from Dec. 27 to Jan. 4>  Turbine facilities  Turbine inspection *  Other facilities  House transformer inspection  Excitation transformer inspection  Transportation into the factory is underway.	on Dec. 24, 2008. <work be="" suspended<="" td="" to=""></work>
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Other facilities House transformer inspection Transportation into the factory is underway.  Excitation transformer inspection Transportation into the factory is underway.	
Excitation transformer inspection Transportation into the factory is underway.	Sep. 30, 2008 and to be commenced in Janu
Main generator inspection Inspection commenced on Jan. 15, 2008. Transportation of rotor into the factory completed on Jun. 11, 2008.	. <work 27="" be="" dec.="" from="" suspended="" td="" to="" to<=""></work>
Inspection of power supply input transformer of the primary loop recirculation system adjustable speed drive	
Main exhaust duct inspection / restoration Preparation for restoration work commenced on Jun. 23, 2008. Restoration of substruction commenced on to Jan. 4>	lov. 4, 2008. <work be="" from<="" suspended="" td="" 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) (2/3)

[Inspection/Restoration Status]

◆From Dec	From December 14th, 2008 (Sun) to January 10th, 2009 (Sat)								
	System / Equipment	Items	Dec. 14th (Sun) to Dec. 20th (Sat) Dec. 21st (Sun) to Dec. 27th (Sat) Dec. 28th (Sun) to Jan. 3rd (Sat)	Jan. 4th (Sun) to Jan. 4th (Sat)	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.				
		Excitation transformer inspection			Transportation into the factory is underway.				
		Main generator inspection			Restoration work commenced on Sep. 11, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>				
		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>				
	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	Turbine 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>				
	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 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>				
		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 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>				
		Stack inspection			Inspection of outdoor duct to be conducted on Dec. 19, 2008.				
	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 commenced on Oct. 31, 2008. <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 to be suspended from Dec. 27 to Jan. 4>				
1	Verification of system integrity	System functional test		)HIII	System functional test commenced on Dec. 4, 2008 <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""> Interlock functional test of liquid waste storage facility and disposal equipment #1 to be conducted on Dec. 11, Dec. 17, Dec. 19 and Dec. 25, 2008. Functional test of liquid waste storage facility and disposal equipment #1 to be conducted on Dec. 18, 2008. Rated capacity verification test of the emergency dised generator conducted on Dec. 15 and to be conducted on Dec. 18, 2008. Functional test of DC power source system conducted on Dec. 16, 2008. Interlock functional test of liquid waste storage facility and disposal equipment #2 conducted on Dec. 17, 2008. Test operation of auxiliary bolier conducted on Dec. 17, 2008. Functional test of automatic depressurization system to be conducted on Dec. 18, 2008. Functional test of primary containment vessel sisolation valve to be conducted on Dec. 20, 2008. Functional test of primary containment vessel sisolation valve to be conducted on Dec. 25, 2008.</work>				
-	Turbine 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 to be conducted from Apr. 14 to Dec. 18, 2008.  Low-pressure turbine restoration of casing to be commenced on Dec. 19, 2008.  -Work to be suspended from Dec. 29 to Jan. 4>				
	Other facilities	Main generator inspection			Restration work commenced on Jul. 14, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>				
		Stack inspection			Inspection of outdoor duct compelted on Dec. 8, 2008.				
	Verification of system integrity	System functional test			System functional test commenced on Sep. 18, 2008. < Work to be suspended from Dec. 27 to Jan. 4>				

## 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 14th, 2008 (5)

♦From December 14th, 2008 (Sun) to January 10th, 2009 (Sat)								
System / Equipment	Items	Dec. 14th (Sun) to Dec. 20th (Sat) Dec. 21st (Sun) to Dec. 27th (Sat) I	Dec. 28th (Sun) to Jan. 3rd (Sat)	Jan. 4th (Sun) to Jan. 4th (Sat)	Status of Inspection / Restoration			
Transformer (common) / Switch Yard	High-voltage start-up transformer #2 inspection				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 Aug. 2, 2008.  Unit No.4 Restoration work commenced on Dec. 13, 2008. Work to be suspended from Dec. 27 to Jan. 5>  Unit No.5 Restoration work commenced on Nug. 27, 2008.  Scrubbing of soil contaminated by oil leakage commenced on Sep. 16, 2008.			
Environmental Facilities	House boilers inspection				(Arahams-side)  A Inspection to be conducted from Apr. 8, 2008 to July 2009.  2B Inspection commenced on Apr. 8, 2008.  3A Inspection completed on Dec. 8, 2008.  (Ohminato-side)  4C Inspection completed on Dec. 17, 2008.			
	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 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></work>			
Others	Restoration work for solid waste storage facility				Preparation work for prevention countermeasure for drum fallin 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.  Repair work of the second floor and third floor of information building to be conducted from Oct. 14 to Dec. 19, 2008. <work 27="" 4="" be="" dec.="" from="" jan.="" suspended="" to=""></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.				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 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.

\* 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 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.