## 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)

[Inspection/Restoration Status]

From Apr	il 12th, 2009 (Sun) to May 9th, 200 System / Equipment	9 (Sat) Items	Apr. 12th (Sun) to Apr. 18th (Sar)	Apr. 19th (Sun) to Apr. 25th (Sat)	Apr. 26th (Sun) to May 2nd (Sat)	May 3rd	(Sun) to	o May 9th (S∝	Status of Inspection / Restoration	
			Apr. 12th (Sun) to Apr. 16th (Sat)	Арг. 19ш (Зші) to Арг. 23ш (Заг)						
Unit No.1		Turbine inspection *							High-pressure turbine and low pressure turbine (A) (B) (C) detailed inspection commenced on Nov. 17, 2008. «Work suspended from May 1 to May 6.>	
	Other facilities	Submerged equipment inspection on ground floor 5 of the reactor combination building							Restoration work to be conducted from Mar. 17, 2008 to mid-May 2009. <work 10.="" 2="" from="" may="" suspended="" to=""></work>	
		Main transformer inspection		<b>V</b>		+			Carrying in and installation work to be commenced on Apr. 20. «Work suspended from Apr. 29 to May 6.»	
		House transformer inspection							1A, 1B Carrying in and installation work commenced on Mar. 30. <work 29="" 6.="" apr.="" from="" may="" suspended="" to=""></work>	
		Excitation transformer inspection		-		_			Carrying in and installation work commenced on Mar. 30. <work 29="" 6.="" apr.="" from="" may="" suspended="" to=""></work>	
		Main generator inspection							Inspection commenced on Feb. 7, 2008. <work 2="" 6.="" from="" may="" suspended="" to=""></work>	
		500kV power cable inspection			l l				Preparation work for laying cables commenced on Mar. 2. <work 2="" 6.="" from="" may="" suspended="" to=""></work>	
		Main exhaust duct inspection / restoration				Ш	Ш		Preparation for restoration work commenced on Aug. 9, 2008. Restoration of substruction commenced on Dec. 1, 2008. <work 2="" 6.="" from="" may="" suspended="" to=""></work>	
		Circulating water pipe inspection			II	Ш	Ш		Foundation improvement, excavating work, and inspection of pipes commenced on Aug. 6, 2008. < Work suspended from May 2 to May 6.>	
	Seismic reinforcement	Seismic reinforcement works such as pipe supports					Ш		Preparation for reinforcement work commenced on Mar. 10. < Work suspended from May 2 to May 6.>	
		Seismic reinforcement works for the roof truss of the reactor building							Reinforcement work communced on Jan. 22. <work 2="" 6.="" from="" may="" suspended="" to=""></work>	
		Seismic reinforcement works for reactor building overhead crane							Preparation for reinforcement work commenced on Apr. 6. < Work suspended from May 2 to May 6.>	
		Seismic reinforcement works for stack (Unit No.1 and Unit No.2)					Ш		Preparation for reinforcement work commenced on Feb. 16. < Work suspended from May 2 to May 6.>	
		Seismic reinforcement works for the fuel handling machine					Ш		Reinforcement work commenced on Jan. 30. «Work suspended from May 2 to May 6.»	
		Seismic reinforcement works for emergency intake channel							Foundation improvement work commenced on Feb. 9. < Work suspended from May 2 to May 6.>	
Unit No.2	Reactor facilities	Reactor recirculation piping preventive maintenance							Perparation work commenced on Dec. 16, 2008. Ultrasonic testing commenced on Feb. 18. «Work suspended from May 2 to May 6.»	
	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				111111	Ш		Inspection commenced on Mar. 19, 2008. <work 2="" 6.="" from="" may="" 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 suspended from May 2 to May 6.»	
		Hamilton diet inspection/ tenomiton							repairment on Leadminst work commenced on ring, 7, 2000. Restoration of substitution commenced on Dec. 1, 2000. A tork suspended from ring 2 to ring to.	
	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building					Ш		Preparation for reinforcement work to be conducted from Feb. 9 to May 17. Reinforcement work to be commenced on May 18. < Work suspended from May 2 to May 6.>	
Unit No.3	Reactor facilities	Reactor recirculation piping preventive maintenance					Ш		Preventive maintenance commenced on Sep. 12, 2008. The date of restoration of the piping cut-out part to be determined. <work 2="" 6.="" from="" may="" suspended="" to=""></work>	
	Turbine facilities	Turbine inspection *						_	Low-pressure turbine (B) (C) detailed inspection commenced on May 7, 2008. < Work suspended from May 1 to May 6>	
						ШШ	Ш		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			111111111				3A, 3B Installation work commenced on Nov. 18, 2008. <work 29="" 6.="" apr.="" from="" may="" suspended="" to=""></work>	
		Excitation transformer inspection		<del> </del>					Installation work commenced on Nov. 18, 2008. < Work suspended from Apr. 29 to May 6.>	
		Main generator inspection							Inspection commenced on Feb. 20, 2008. < Work suspended from May 2 to May 6.>	
		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. «Work suspended from May 2 to May 6.»	
		Circulating water pipe inspection							Foundation improvement, excavating work, and inspection of pipes commenced on Jun. 16, 2008. < Work suspended from May 1 to May 6.>	
	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building				111111	_		Reinforcement work commenced on Nov. 27, 2008. <work 2="" 6="" from="" may="" suspended="" to=""></work>	
		Seismic reinforcement works for stack		<b></b>					Preparation for reinforcement work commenced on Feb. 2. <work 2="" 6.="" from="" may="" suspended="" to=""></work>	
Unit No.4	Turbine facilities	Turbine inspection *							High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection to be commenced in early July 2009.	
	Other facilities	House transformer inspection							Transportation into the factory is underway.	
		Excitation transformer inspection							Transportation into the factory is underway.	
		Main generator inspection		<u> </u>					Inspection commenced on Jan. 15, 2008. < Work suspended from May 2 to May 6.>	
		Inspection of power supply input transformer of the primary loop recirculation system							Transportation into the factory is underway.	
		adjustable speed drive								
		Main exhaust duct inspection / restoration							Preparation for restoration work commenced on Jun. 23, 2008. < Work suspended from May 2 to May 6.>	
	Seismic reinforcement	Seismic reinforcement works for the roof truss of the reactor building				ШШ			Preparation for reinforcement work to be conducted from Mar. 13 to Apr. 22. Reinforcement work to be commenced on Apr. 23. «Work suspended from May 2 to May 6.»	
		Seismic reinforcement works for stack				ļIIIIII	Ш		Preparation for reinforcement work commenced on Feb. 2. < Work suspended from May 2 to May 6.>	

## 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]

From Apr	il 12th, 2009 (Sun) to May 9th, 200		,			
	System / Equipment	Items	Apr. 12th (Sun) to Apr. 18th (Sat)	Apr. 19th (Sun) to Apr. 25th (Sat)	Apr. 26th (Sun) to May 2nd (Sat) May 3rd (Sun) to May 9th (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	Main transformer inspection				Carrying in and installation work commenced on Mar. 25. <work 3="" 6.="" from="" may="" suspended="" to=""></work>
		House transformer inspection				5A, 5B Carrying in and installation work to be commenced on Apr. 24. <work 3="" 6.="" from="" may="" suspended="" to=""></work>
		Excitation transformer inspection				Carrying in and installation work commenced on Mar. 2. «Work suspended from May 3 to May 6.»
		Main exhaust duct inspection / restoration			11111111	Preparation for restoration work commenced on Jun. 2, 2008. «Work suspended from May 3 to May 6.»
		Circulating water pipe inspection			11 111111111	Foundation improvement, excavating work, and inspection of pipes commenced on Oct. 25, 2008. < Work suspended from May 2 to May 6.>
	Seismic reinforcement	Seismic reinforcement works such as pipe supports			11111111	Preparation for the reinforcement work commenced on Mar. 16. «Work suspended from May 3 to May 6.»
		Seismic reinforcement works for the roof truss of the reactor building			11 11111111	Reinforcement work commenced on Jan. 19. «Work suspended from May 2 to May 6.»
		Seismic reinforcement works for reactor building overhead crane				Preparation for reinforcement work commenced on Apr. 6. < Work suspended from May 2 to May 6.>
		Seismic reinforcement works for stack			11 111 1111 11	Preparation for reinforcement work commenced on Feb. 2. «Work suspended from May 2 to May 6.»
		Seismic reinforcement works for the fuel handling machine				Preparation for reinforcement work commenced on Apr. 6. «Work suspended from May 3 to May 6.»
Unit No.6	Reactor facilities	Primary containment vessel closure				The date of closure work to be determined.
	Turbine facilities	Turbine inspection *				High-pressure turbine and low-pressure turbine (A) (B) (C) detailed inspection commenced on May 12, 2008.  Low-pressure turbine restoration work of blades commenced on Jan. 8. «Work suspended from May 3 to May 6.>
	Verification of system integrity	System functional test				System functional test commenced on Dec. 4, 2008. <work 2="" 6.="" from="" may="" suspended="" to=""></work>
						The date of primary containment vessel leak-rate inspection to be determined.
Unit No.7						
Transformer	(common) / Switch Yard	High-voltage start-up transformer #2 inspection				Transportation into the factory completed on Apr. 9.
						Unit No.1 Restoration work commenced on Oct. 4, 2008. < Work suspended from May 2 to May 6 > Unit No.2 Preparation for restoration work commenced on May 30, 2008. < Work suspended from May 2 to May 6 > Unit No.3 Restoration work to be conducted from May 2 to Most May 29, 2009. < Work suspended from May 2 to May 10.>
		On-site check / inspection / restoration of the oil protection bank for the transformer				Unit No.A Restoration work commenced on Dec. 13, 2008. «Work suspended from May 2 to May 6 > Unit No.5 Restoration work to be conducted from Aug. 27, 2008 to May 92, 2009. «Work suspended from May 2 to May 10.> Scrubbing of soil contaminated by oil leakage commenced on Sep. 16, 2008. «Work suspended from May 1 to May 6.>
Environmental Facilities		House boilers inspection			11 1111111111	(Arahama-side)  I.A Inspection to be conducted from Apr. 8, 2008 to September 2009. «Work suspended from May 2 to May 6.> 3.A Preparation for toransportation of electric boiler transformer commenced on Mar. 2. «Work suspended from May 2 to May 6.>
		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 suspended from May 2 to May 6.>
Others		Restoration work for solid waste storage facility				Prevention countermeasure for drum falling commenced on Jan. 16. < Work suspended from May 1 to May 6.>
		Restoration work for administration building / information building, etc.				Restoration work for administration building and information building is underway. < Work suspended from May 2 to May 6.>
		Construction of seismic-isolated essential buildings				Construction commenced on Oct. 14, 2008. <work 2="" 6.="" from="" may="" suspended="" to=""></work>
		Restoration of laundry facility building on Arahama-side		+		Restoration work to be conducted from Jan. 30 to late September. <work 2="" 6.="" from="" may="" suspended="" to=""></work>
						Restoration work for roads inside and outside of the site currently in progress. < Work suspended from May 2 to May 6.>
		Restoration and reinforcement work for the on-site / outside roads & slope, etc.			11	Maintenance work of the slope in front of sub protection headquarter office to be commenced on Mai 11.  Restoration work of Daini Takamachi Bridge to be commenced on May 7.
		Restoration work for port facility			11 11 11 11 11 11	Restoration work for bank protection commenced on Apr. 3, 2008. «Work suspended from May 2 to May 6.»
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<sup>\*</sup> Inspection results for each facilities will be announced as soon as they compiled.

 $<sup>\</sup>ensuremath{^*}$  Inspection and restoration work and execution date for each item may alter according to the situation.

Period to suspend the works for "Golden Week" holidays.

<sup>\*</sup> 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. Lines the high-pressure turbine and low-pressure turbine (A) and (C) had been opened for regular contage at the internal conducted for the low-pressure turbine (B) that had not been opened.)

Detailed mobile included, in addition to regular bring-open importance in conductionation of the incurrence of the configuration of