

# Status of main inspection / restoration work at the Kashiwazaki Kariwa Nuclear Power Station following the Niigataken Chuetsu-oki Earthquake in 2007

(4-week schedule as of February 7, 2008)

: Inspection Completed, Red text: Changes from last week, Blue text: Information added this time

Facility / work		Unit	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	
Open inspection on reactors	Ceiling crane in the reactor building		Completed on 9/18	Completed on 10/4	Completed on 9/14	Completed on 11/9	Completed on 9/28	Completed on 10/2	Completed on 9/6	
	Refueling machine		Completed on 11/15	Completed on 10/16	Completed on 12/18	Completed on 12/10	Completed on 10/19	Completed on 11/12	Completed on 9/27	
	Internals ( * )	Phase 1	Completed on 8/23	Phase 1/2 completed on 11/19	-Phase 1/2 completed on 2/5	Phase 1/2 completed on 1/16	Phase 1/2 completed on 12/6	-Withdrawal of two control rods that experienced separation completed on 11/27 -Disassemble inspection of control rod mechanism commenced on 12/1 -Phase 1/2 completed on 12/27	-Disassemble inspection of control rod mechanism completed on 11/19 -Phase 1/2 completed on 11/30	
		Phase 2	Completed on 10/1							
		Phase 3	Completed on 12/14	Completed on 12/25	Inspection scheduled for 2/6-20	Completed on 2/5	Completed on 12/27			Completed on 1/28
	Jet Pump							-Visual inspection before detachment of No1 implemented on 1/18 -Detachment timing being coordinated		
	Fuel/Control Rod		-Inspection on Control-Rod Rack completed on 2/5 -Inspection commencement on Control-Rod scheduled for 2/15-22 -Fuel Inspection timing being coordinated	Inspection scheduled for 11/27-30 & 12/25-2/8 & mid March				Inspection scheduled for 2/14-the beginning of March	Inspection scheduled for 2/1-mid March	Inspection scheduled for 11/17-20 12/4-5 & 1/23- 2/19
	Reactor Pressure Vessel		-Inspection on Supporting Structure completed on 11/7 -Inspection of nozzle etc. scheduled for 1/10-2/13	-Inspection on Supporting Structure completed on 11/14 -Inspection of nozzle etc. completed on 12/26	-Inspection on Supporting Structure completed on 11/12 -Inspection of nozzle etc. scheduled for 2/6-22	-Inspection on Supporting Structure completed on 11/12 -Inspection of nozzle etc. scheduled for 12/8-18 & 1/28 - 2/14	-Inspection on Supporting Structure completed on 11/2 -Inspection of nozzle etc. completed on 1/16	-Inspection on Supporting Structure completed on 10/30 -Inspection of nozzle etc. completed on 12/18	-Inspection on Supporting Structure completed on 10/29 -Inspection of nozzle etc. completed on 12/14	
	Suppression Chamber		Inspection scheduled for 1/28-2/23						Inspection scheduled for 2/7-3/8	Inspection scheduled for 2/7-25
Reactor Well									-Inspection & provisional restoration completed on 11/15 -Restoration of lining scheduled for 1/18-2/26	
Open inspection on turbines	Ceiling crane in the turbine building		Completed on 10/26	Completed on 8/24	Completed on 10/30	Completed on 10/5	Completed on 10/17	Completed on 10/4	Completed on 10/4	
	Turbine		Inside inspection of Low-Pressure B Casing completed on 11/30	Inside inspection of High-Pressure & Low-Pressure A Casing completed on 12/21	Inside inspection of High-Pressure & Low-Pressure A Casing completed on 12/14	Inside inspection of High-Pressure & Low-Pressure A Casing completed on 12/14	Inside inspection of High-Pressure & Low-Pressure A Casing completed on 12/14	Inside inspection of High-Pressure & Low-Pressure A Casing completed on 10/25	-Inside inspection of High-Pressure & Low-Pressure A Casing completed on 11/30 -Detailed inspection of High-Pressure & Low-Pressure A-C commenced on 12/1	
Main exhaust ducts			Completed on 9/14	-Inspection of outdoor sections completed on 9/14 -Exterior inspection on ducts in the trenches completed on 10/5	Completed on 9/14	-Inspection of outdoor sections completed on 9/14 -Exterior inspection on ducts in the trenches completed on 10/5	-Inspection of outdoor sections completed on 9/14 -Exterior inspection on ducts in the trenches completed on 10/5			
Main Generator			-Inspection commencement scheduled on 2/15		-Inspection commencement scheduled on 2/18	-Inspection commenced on 1/15 -Withdrawal of the rotor scheduled on 2/14	-Inspection commenced on 11/3 -Ex-factory of the rotor completed on 12/1		-Inspection commenced on 11/2 -Withdrawal of the rotor completed on 11/20	
Transformer	Main transformer	Exterior inspection	Completed on 11/1	-Ex-factory preparation completed on 12/28						
		Oil extraction / inner inspection	-Inspection completed on 11/23 -Ex-factory timing being coordinated	-Ex-factory timing being coordinated	-Inspection completed on 10/26 -Ex-factory timing being coordinated	-Inspection completed on 12/13 -Ex-factory timing being coordinated	-Inspection completed on 11/29 -Ex-factory timing being coordinated	-Completed on 10/6 -Ex-factory completed on 10/31	-Completed on 9/21 -Ex-factory completed on 10/25	
	In-house transformer	Exterior inspection		-2A:Completed on 11/8 -2B:Completed on 11/17	3A : Completed on 9/4					
		Oil extraction / inner inspection	-1A : Completed on 9/4 -1B : Completed on 10/12 -Ex-factory timing being coordinated	-2A:Completed on 11/13 -2B:Completed on 11/19 -Ex-factory timing being coordinated	-3A:Completed on 10/22 Ex-factory preparation commencement scheduled on 2/20 -3B:Ex-factory completed on 9/20	4A,4B: Inspection commencement timing being coordinated	-5A:Inner inspection commencement scheduled on 2/25-26 -5B:Inner inspection commencement scheduled on 3/10	-6A:Completed on 9/25 -6B:Completed on 9/26 -Ex-factory completed on 10/25 -Carrying preparation scheduled for 2/25-27	-7A:Completed on 11/14 -7B:Completed on 11/10 -Ex-factory completed 12/6	
	Excitation transformer	Exterior inspection		Completed on 11/17	Completed on 10/19					
		Oil extraction / inner inspection	Completed on 10/18 -Ex-factory timing being coordinated	-Completed on 12/6 -Ex-factory timing being coordinated	-Completed on 11/3 -Ex-factory timing being coordinated	Inspection commencement timing being coordinated	Inspection commencement timing being coordinated			

( \* ) Phase 1 (Inspection of the upper reactor): The internals of a reactor are visually checked from above with an underwater camera, before the implementation of further inspection on the area extending from the reactor pressure vessel flange to the upper grid plate, with the aim of checking the internal status of the reactor.

Phase 2 (Inspection of the mid reactor --- the reactor core): An underwater camera is used to visually check the area extending from the upper grid plate to the core support plate, as well as the outer circumference of the core shroud (annulus). The dryer and separator,

Phase 3 (Inspection of the bottom of the reactor): removed from the core, are also examined. Inspection is carried out on the area extending from the core support plate to the bottom of the reactor, after removing control rods, fuel supports and other items that could interfere with the inspection.