

## 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) (1/4)

[Inspection/Restoration Status]

From November 25th, 2007 (Sun) to December 22nd, 2007 (Sat)

| System/Equipment                                       |   | Items  | Nov. 25th (Sun) to Dec. 1st (Sat) | Dec. 2nd (Sun) to Dec. 8th (Sat) | Dec. 9th (Sun) to Dec. 15th (Sat) | Dec. 16th (Sun) to Dec. 22nd (Sat) | Status of Inspection/Restoration  |   |  |
|--|---|--|-----------------------------------|----------------------------------|-----------------------------------|------------------------------------|---|---|--|
| Unit No.1  | Relating to the Open Inspection of Reactors           | Refueling machine inspection   |                                   |                                  |                                   |                                    | Inspection completed on Nov. 15.  |   |  |
|  |   | Refueling floor service tools inspection (stud tensioners, etc.)                     |                                   |                                  |                                   |                                    | Coordinating for start date of inspection.  |   |  |
|  |   | In-core inspection   | preparation                       | ▼                                |                                   |                                    |   | Phase3 <sup>31</sup> inspection preparation completed on Oct. 25.   |  |
|  |   |  | inspection                        | ▼                                | ▶                                 |                                    |   | ▼   | Phase3 <sup>31</sup> inspection planned from Nov. 26 to Dec. 11.   |
|  | Reactor pressure vessel inspection                    | preparation  |                                   | ▼                                | ▶                                 |                                    |   | Preparation for inspection of Nozzle parts etc. commenced on Nov. 28.   |  |
|  |   | inspection   |                                   | ▶                                |                                   |                                    |   | Inspection of support structure (foundation bolts and sway brace) completed on Nov. 7.  |  |
|  | Relating to the Open Inspection of Turbine            | Turbine internal inspections *2  |                                   | ▼                                |                                   |                                    |   | Low pressure turbine (B) casing opening and internal inspection planned from Nov. 9 to Nov. 30.   |  |
|  | Restoration/Inspection of Equipments                  | Submerged equipment inspection on ground floor 5 of the reactor combination building |                                   | ▶                                |                                   |                                    |   | LCW(A) partial restoration completed on Oct. 15.<br>HCW(A) partial restoration completed on Nov. 9.<br>SD(A) and (B) currently partially restored.      |  |
|  |   | Main transformers inspection (oil extraction/internal inspection)                    | preparation                       | ▶                                |                                   |                                    |   | Preparation to be transported into the factory commenced on Oct. 29.  |  |
|  |   |  | inspection                        |                                  | ▶                                 |                                    |   |   | Inspection completed on Nov. 23.   |
| Main exhaust duct inspection                           |   |  | ▼                                 | ▼                                |                                   |                                    | Inspection for leakage due to the increased number of operating HVACs completed on Nov. 28. (Restoration to normal operating mode.)     |   |  |
|  | Skimmer surge tank inspection                         |  |                                   |                                  |                                   |                                    | Search and recovery of a red boot in the skimmer surge tank completed on Nov. 20.   |   |  |
| Unit No.2  | Relating to the Open Inspection of Reactors           | In-core inspection   | preparation                       | ▶                                |                                   |                                    | ▼   | Phase3 <sup>31</sup> Preparation for inspection planned from Nov. 16 to Dec. 2.   |  |
|  |   |  | inspection                        |                                  | ▼                                 | ▶                                  |   |   | ▼  |
|  |   | Fuel, control rod inspection   |                                   | ▼                                | ▼                                 |                                    |   |   | Inspection to be conducted from Nov. 27 to Nov. 30, and after completion of Phase 3 of in-core inspection.                                     |
|  | Reactor pressure vessel inspection                    | preparation  | ▶                                 |                                  |                                   |                                    |   | Nozzle parts etc. to be prepared from Nov. 14.  |  |
|  |   | inspection   |                                   |                                  |                                   | ▼                                  | ▶   | Support structure (foundation bolts and sway brace) inspection completed on Nov. 14.<br>Inspection of Nozzle parts etc. due to be commenced on Dec. 14. |  |
|  | Relating to the Open Inspection of Turbines           | Turbine internal inspections *2  |                                   | ▼                                | ▶                                 |                                    |   | High pressure turbine and low pressure turbine (A) casing opening and internal inspection planned from Nov. 28 to late December.                        |  |
|  | Restoration/Inspection of Equipments                  | Main transformers inspection (preparation for transportation into the factory)       |                                   | ▶                                |                                   |                                    |   | Preparation to be transported into the factory commenced on Nov. 1.   |  |
|  |   | House transformers inspection (visual inspection)                                    |                                   |                                  |                                   |                                    |   | 2A Inspection completed on Nov. 8. 2B Inspection completed on Nov. 17.  |  |
|  |   | (oil extraction/internal inspection)   | preparation                       |                                  |                                   |                                    |   |   | 2A Preparation completed on Nov. 9. 2B Preparation completed on Nov. 16.   |
|  |   |  | inspection                        |                                  |                                   |                                    |   |   | 2A Inspection completed on Nov. 13. 2B Inspection completed on Nov. 19.<br>Coordinating for the start date of transportation into the factory. |
| Excitation transformers inspection (visual inspection) |   | preparation  |                                   |                                  |                                   |                                    |   | Preparation completed on Nov. 15.   |  |
|  | inspection  |  |                                   |                                  |                                   |                                    | Inspection completed on Nov. 17.  |   |  |
|  | (oil extraction/internal inspection)                  | preparation  | ▶                                 |                                  | ▼                                 |                                    | To be prepared from Nov. 16 to Nov. 30.   |   |  |
| inspection   |   |  | ▼                                 | ▼                                |                                   |                                    | Inspection planned on Dec. 1.   |   |  |
|  | Restoration for the blowout panel of turbine building |  |                                   |                                  |                                   |                                    | Provisional restoration completed. Restoration work commenced on Oct. 9.<br>Work suspended from Nov. 9 due to turbine inner inspection. |   |  |

## 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) (2/4)

[Inspection/Restoration Status]  
From November 25th, 2007 (Sun) to December 22nd, 2007 (Sat)

| System/Equipment | Items   | Nov. 25th (Sun) to Dec. 1st (Sat)   | Dec. 2nd (Sun) to Dec. 8th (Sat)   | Dec. 9th (Sun) to Dec. 15th (Sat) | Dec. 16th (Sun) to Dec. 22nd (Sat) | Status of Inspection/Restoration   |  |
|------------------|---|---|--|-----------------------------------|------------------------------------|--|--|
| Unit No.3        | Relating to the Open Inspection of Reactors                             | Refueling machine inspection  |  |                                   |                                    | Inspection planned from Nov. 12 to Dec. 18.  |  |
|                  |   | Refueling floor service tools inspection (stud tensioners, etc.)              |  |                                   |                                    | Inspection planned from Oct. 24 to late December.  |  |
|                  |   | Restoration for the blowout panel of reactor building                         |  |                                   |                                    |  | Provisional restoration completed. Survey for restoration completed on Oct. 30. Coordinating for start date of restoration work.   |
|                  |   | Reactor pressure vessel inspection  |  |                                   |                                    |  | Inspection of support structure (foundation bolts and sway brace) completed on Nov. 12.  |
|                  | Relating to the Open Inspection of Turbines                             | Turbine internal inspections *2   |  |                                   |                                    | High pressure turbine and low pressure turbine (A) casing opening and internal inspection planned from Nov. 21 to Dec. 14. |  |
|                  |   | Restoration/Inspection of Equipments  | Main transformers inspection (preparation for transportation into the factory) |                                   |                                    |  |  |
|                  | House transformers inspection (oil extraction/internal inspection)      |   |  |                                   |                                    |  | 3A Inspection completed on Oct. 22. Coordinating for start date of transportation into the factory.<br>* 3B Transportation completed on Sept. 20.                                |
|                  | Excitation transformers inspection (oil extraction/internal inspection) |   |  |                                   |                                    |  | Inspection completed on Nov. 3. Coordinating for start date of transportation into the factory.  |
|                  | Restoration for the blowout panel of turbine building                   |   |  |                                   |                                    |  | Provisional restoration completed. Restoration work commenced on Oct. 29. Work suspended from Nov. 17 due to turbine inner inspection.   |
|                  | Removal of spent fuel pool underwater work platform                     |   |  |                                   |                                    |  | Work planned from Dec. 3 and Dec. 4.   |
| Unit No.4        | Relating to the Open Inspection of Reactors                             | Refueling machine inspection  |  |                                   |                                    | Inspection planned from Oct. 24 to Dec. 10.  |  |
|                  |   | Refueling floor service tools inspection (stud tensioners, etc.)              |  |                                   |                                    | Inspection planned from Oct. 9 to Dec. 3.  |  |
|                  |   | Reactor head opening  |  |                                   |                                    |  | Reactor head opening work planned from Dec. 4 to Dec. 10.  |
|                  |   | In-core inspection  |  |                                   |                                    |  | Inspection to be commenced on Dec. 11. Phase1 & 2 <sup>1</sup> inspection to be commenced on Dec. 22.<br>Inspection commenced on Nov. 26 for spent fuel pool rack hangers, etc.  |
|                  |   | Reactor pressure vessel inspection  |  |                                   |                                    |  | Inspection of support structure (foundation bolts and sway brace) completed on Nov. 12.<br>Nozzle parts etc. to be inspected from Dec. 8 to Dec. 12.                             |
|                  | Relating to the Open Inspection of Turbines                             | Turbine internal inspections *2   |  |                                   |                                    | High pressure turbine and low pressure turbine (A) casing opening and internal inspection planned from Nov. 8 to Dec. 14.  |  |
|                  | Restoration/Inspection of Equipments                                    | Main transformers inspection (oil extraction/internal preparation inspection) |  |                                   |                                    |  | Preparation planned from Dec. 3 to Dec. 10. Preparation work for transportation into the factory planned from Dec. 14 to Dec. 24.<br>Inspection planned from Dec. 11 to Dec. 13. |
|                  |   | House transformers inspection   |  |                                   |                                    |  | 4A, 4B Coordinating for start date of inspection.  |
|                  |   | Excitation transformers inspection  |  |                                   |                                    |  | Coordinating for start date of inspection.   |
|                  |   | Removal of spent fuel pool underwater work platform                           |  |                                   |                                    |  | Work planned from Nov. 29 to Dec. 5.   |

### 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) (3/4)

[Inspection/Restoration Status]  
From November 25th, 2007 (Sun) to December 22nd, 2007 (Sat)

| System/Equipment                       | Items                                       | Nov. 25th (Sun) to Dec. 1st (Sat)   | Dec. 2nd (Sun) to Dec. 8th (Sat) | Dec. 9th (Sun) to Dec. 15th (Sat) | Dec. 16th (Sun) to Dec. 22nd (Sat)  | Status of Inspection/Restoration   |  |
|--|---|---|----------------------------------|-----------------------------------|---|--|--|
| Unit No.5                              | Relating to the Open Inspection of Reactors | In-core inspection preparation  |                                  | ▼                                 |   | Phase3*1 Preparation for inspection planned from Dec. 3 to Dec. 11.  |  |
|  |   | In-core inspection  | ▼                                |                                   | ▼   | Inspection commenced on Oct. 30. Phase1 & 2*1 inspection planned from Nov. 22 to Dec. 6. Phase3*1 inspection planned from Dec. 12 to Dec. 27.  |  |
|  | Reactor pressure vessel inspection          | preparation   |                                  | ▼                                 |   | Inspection of Nozzle parts etc. due to be commenced on Dec. 6.   |  |
|  |   | inspection  |                                  |                                   | ▼   | Support structure (foundation bolts and sway brace) inspection completed on Nov. 2. Inspection of Nozzle parts etc. due to be commenced on Dec. 14.  |  |
|  | Relating to the Open Inspection of Turbines | Turbine internal inspections *2   | ▼                                |                                   |   |  | High pressure turbine and low pressure turbine (A) casing opening and internal inspection planned from Oct. 24 to Dec. 14.                                     |
|  | Restoration/Inspection of Equipments        | Main transformers inspection (oil extraction/internal preparation inspection) | ▼                                | ▼                                 | ▼   |  | Preparation completed on Nov. 26. Preparation for transportation into the factory planned from Nov. 30 to Dec. 12. Inspection planned from Nov. 27 to Nov. 29. |
|  |   | House transformers inspection   |                                  |                                   |   |  | 5A , 5B Coordinating for start date of inspection.   |
| Excitation transformers inspection     |   |   |                                  |                                   |   | Coordinating for start date of inspection.   |  |
| Main generator inspection              |   | ▼   |                                  |                                   |   | Inspection commenced on Nov. 3. Withdrawal of the rotor completed on Nov. 23.  |  |
| Unit No.6                              | Relating to the Open Inspection of Reactors | In-core inspection  | ▼                                |                                   |   | Inspection commenced on Nov. 13. Withdrawal of two control rods that experienced separation completed on Nov. 27. Control rod mechanism due to be disassembled and inspected from Dec. 1. Phase 1 & 2*1 inspection planned from Dec. 4 to Dec. 27. |  |
|  |   | Reactor pressure vessel inspection  | preparation                      | ▼                                 |   | Nozzle parts etc. due to be prepared from Nov. 6 to Dec. 7.  |  |
|  | inspection                                  |   | ▼                                |                                   |   | Nozzle parts etc. due to be inspected from Nov. 7 to Dec. 12.  |  |
|  | Relating to the Open Inspection of Turbines | Turbine internal inspections *2   |                                  |                                   |   | High pressure turbine and low pressure turbine (A) internal inspection completed on Oct. 25.   |  |
|  | Restoration/Inspection of Equipments        | Main transformers inspection  |                                  |                                   |   |  | Transportation into the factory completed on Oct. 31.  |
|  |   | House transformers inspection   |                                  |                                   |   |  | Transportation into the factory completed on Oct. 25.  |
|  |   | Reactor Internal Pump Input Transformer                                       | preparation                      | ▼                                 |   |  | Preparation for transportation into the factory to be planned from Nov. 1 to Dec. 2.   |
| transportation                         |   |   |                                  | ▼                                 | ▼   | Two units carried out to the factory on Nov. 20. Two units due to be carried out to the factory on Dec. 3 (total of 4 units).  |  |
| Discharge canal inspection preparation | ▼   |   |                                  |                                   | Discharge canal inspection completed on Sept. 29. Maintenance method under consideration. Preparation for maintenance due to be commenced on Dec.3. |  |  |

## 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) (4/4)

[Inspection/Restoration Status]  
From November 25th, 2007 (Sun) to December 22nd, 2007 (Sat)

| System/Equipment   | Items   | Nov. 25th (Sun) to Dec. 1st (Sat) | Dec. 2nd (Sun) to Dec. 8th (Sat) | Dec. 9th (Sun) to Dec. 15th (Sat) | Dec. 16th (Sun) to Dec. 22nd (Sat)  | Status of Inspection/Restoration  |   |
|--|---|-----------------------------------|----------------------------------|-----------------------------------|---|---|---|
| Unit No.7<br>Relating to the Open Inspection of Reactors | In-core inspection  | preparation                       | ▶                                |                                   |   | Phase3*1 Preparation for inspection planned from Nov. 28 to Dec. 9.<br>Disassembling and inspection of control rod mechanism mechanism completed on Nov 19.<br>Phase1*1 & Phase2*1 inspection planned from Nov. 20 to Nov. 30.<br>Phase3*1 inspection planned from Dec. 10 to Dec 26. |   |
|  |   | inspection                        | ▶                                | ▶                                 |   |   |   |
|  | Fuel, control rod inspection  |                                   | ▶▶                               |                                   |   | Control rod to be inspected from Nov. 17 to Nov. 20, and after completion of the Phase 3*1 inspection.<br>Fuel to be inspected from on Dec. 4 and 5, and after completion of the Phase 3*1 inspection.  |   |
|  | Reactor pressure vessel inspection  | preparation                       | ▶                                |                                   |   | Nozzle parts etc. to be prepared from Nov. 8 to Dec. 5.   |   |
|  |   | inspection                        | ▶                                |                                   | ▶   | Inspection of support structure (foundation bolts and sway brace) completed on Oct. 29.<br>Nozzle parts etc. to be inspected from Nov. 15 to Dec. 14.   |   |
| Reactor-well inspection                                  |   | ▶                                 |                                  |                                   |   | Inspection and provisional restoration completed on Nov. 15. (Reactor well is currently full.)<br>Restoration method under consideration.   |   |
| Relating to the Open Inspection of Turbines              | Turbine internal inspections *2   | ▶                                 | ▶                                | ▶                                 |   | High pressure turbine and low pressure turbine (A) casing opening and internal inspection planned from Oct. 8 to Nov. 30.<br>High pressure turbine and low pressure turbine (A) (B) (C) detailed inspection to be commenced on Dec. 3.  |   |
| Restoration/Inspection of Equipments                     | Main transformers inspection  | ▶                                 |                                  |                                   |   | Transportation into the factory completed on Oct. 25.   |   |
|  | House transformers inspection (oil extraction/internal inspection)        | preparation                       | ▶                                |                                   |   | 7A, 7B Preparation for transportation to be commenced on Nov. 11. Transportation into the factory planned on Dec. 4.  |   |
|  |   | inspection                        | ▶                                |                                   |   | 7A Inspection completed on Nov. 14.<br>7B Inspection completed on Nov. 10.  |   |
|  | Reactor Internal Pump Input Transformer                                   | preparation                       | ▶                                |                                   |   |   | Preparation for transportation into the factory completed on Nov. 18. |
|  | transportation  | ▶                                 |                                  |                                   |   | Two units carried out to the factory on Dec. 19. Two units due to be carried out to the factory on Nov. 23. (total of 4 units).   |   |
| Main generator inspection                                | ▶   |                                   |                                  |                                   | Inspection commenced on Nov. 2. Withdrawal of the rotor completed on Nov. 20. |   |   |
| Discharge canal inspection                               | preparation   | ▶                                 |                                  | ▶                                 |   | Discharge canal inspection completed on Oct. 10. Maintenance method under consideration.<br>Preparation for maintenance due to be commenced on Dec.3.   |   |
| Common Activities for the Power Plant                    | Verification operation of stand-by equipments operation                   | ▶                                 |                                  |                                   |   | Unit No. 1, 3 and 4 Stand-by Liquid Control System verification test run planned on Nov. 15, 16, 19, 20 and 21.   |   |
|  | Verification operation of feedwater pump and condensate pump              | ▶                                 |                                  |                                   |   | Unit No.7 Verification operation completed on Nov. 12.  |   |
| Transformer (common) / Switch Yard                       | High-voltage start-up transformer #1 inspection                           | ▶                                 |                                  | ▶                                 |   | Preparation work for carrying in to be commenced on Nov. 19.<br>To be carried in on Dec. 5 and to be installed from Dec. 6.   |   |
|  | On-site check & inspection of the oil protection bank for the transformer | ▶                                 |                                  |                                   |   | Provisional restoration completed on Sept. 20. Restoration method under consideration.  |   |
|  | Inspection of the Minami Niigata trunk line #2 bushing                    | ▶                                 |                                  |                                   |   | Inspection planned from Nov. 23 to Dec. 23. Planned to receive power on Dec. 23.  |   |
| Environmental Facilities                                 | On-site check & inspection of the incineration facility                   | ▶                                 | ▶                                | ▶                                 |   | For incinerators situated at Arahama side, inspection currently under way. Inspection to be completed on Nov. 30. To be re-fired on Dec. 4.   |   |
|  | Inspection of house boilers   | ▶                                 |                                  |                                   |   | House boiler (Arahama-side) 1A, 2A, 2B: Inspection underway.<br>(Ohminato-side) 4A: Inspection underway. 4B: Inspection completed on Oct. 23.   |   |
| Solid Waste Storage Facility                             | Restoration work  | ▶                                 |                                  |                                   |   | Drum soundness verification work to be commenced on Oct. 9.   |   |
| Others   | Restoration work for administration building/information building, etc.   | ▶                                 |                                  |                                   |   | Repair work of the second floor of the administrative building to be commenced on Oct. 17.  |   |
|  | Restoration work for the on-site/outside roads & slope, etc.              | ▶                                 |                                  |                                   |   | Restoration of the slope completed on Oct. 22. Restoration work for roads inside and outside of the site currently in progress.   |   |

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.

\*1 Phase 1: Inspection for the upper part of reactors, Phase 2: Inspection for the middle part (reactor core) of the reactor, Phase 3: Inspection for the bottom part of the reactor.

\*2 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 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.