

“Summary Approach for dose reduction in Sendai NPS”

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As the approach for dose reduction in Sendai NPS, the following measures have been taken:

- Work processes
  - Limited access to areas with high dose equivalent rates
  - Change in the timing of drain process on the secondary side of S/G
- Temporary shields
  - Used temporary shields for major work locations
- Calling workers' attention
  - Installation of illumination tubes
  - Installation of area monitors
  - Installation of voice sensors
  - Installation of radiation warning signs
  - Clarification of signs for waiting areas
- Improvement of awareness
  - Radiation management patrols
- Education
  - Implemented education of radiation management on a periodical inspection

These effort have brought the following conclusions;

- The exposure doses during the latest periodical inspection decreased by 10-20% from the planned values as a result of dose reduction activities where PDCA (Plan, Do, Check, Action) was applied.
- Large-scale maintenance work is now underway, because of aging nuclear power plants which cause an increase in exposure doses during periodical inspection. But we take appropriate dose reduction measures for each work and try to reduce radiation exposure