

V-2 Status of Occupational Radiation Exposure Management

- (1) Licensees for the construction of commercial reactor facilities are obligated to control the exposure levels of personnel engaged in radiation work so as not to exceed the exposure limit prescribed by the Nuclear Reactor Regulation Law.

This document has been compiled from the FY1985 "Report on Radiation Management, Etc.," as submitted by licensees for the construction of commercial reactor facilities in accordance with the Nuclear Reactor Regulation Law, and the "Report on Exposure Dose, Etc., of Radiation Workers," etc., in accordance with an administrative notification.

The annual exposure records of personnel engaged in commercial reactor facilities since FY1976 are provided in the appendix for reference purposes.

- (2) The following are notes for the tables:

- 1) The "total" number of personnel engaged in radiation work is the sum of all the numbers recorded at each nuclear facility. Therefore, workers who have worked at more than one facility are counted more than once.
- 2) The "total exposure dose" values for "employees" and "others" have been rounded to the nearest whole number. For certain data the sum of "employees" and "others" does not correspond to the "total," which is an error due to the above-described calculation method.
- 3) The "average dose" values were rounded to two decimal places.
- 4) Reactors have been included in the "unit number of reactors" only after reaching the first critical state.
- 5) The number of personnel engaged in radiation work and exposure doses have been collected since the institution of control zones.
- 6) The exposure dose of personnel who have worked at both the Tokai Power Station and the Tokai Daini Power Station of the Japan Atomic Power Company Co., Ltd. has been calculated by dividing the value into proportions based on the dosimeter of the thermo luminescence dosimeters at these two plants.

- (3) According to these data, the records of occupational exposure at commercial reactor facilities in FY1985 were lower than the exposure limit (3 rems per 3 months) prescribed by a notification based on the Nuclear Reactor Regulation Law at all nuclear plants.

The comparison between exposure records in FY1985 and periods of periodical inspections of the plants, etc., is shown in Table V-1, which indicates that most of radiation exposure took place in association with out-of-service works such as periodical inspections, etc. Among the works carried out during periodical inspections, the major ones with relatively high records of radiation exposure are the work associated with in-service inspections (ISIs); work associated with control rod drive mechanism, pump and valve inspection works, etc., for boiling-water reactor (BWR) facilities; and inspection and maintenance work associated with steam generators, reactor vessel-related works, pump and valve inspection works, etc., for pressurized-water reactor (PWR) facilities.

The total exposure dose and average exposure dose decreased in FY1985 relative to the preceding fiscal year.