

“Analysis on Occupational Exposure of Radiation Workers in Korea by KISOE”

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Korea Information System on Occupational Exposure (KISOE) started to be in operation in 2005 at Korea Institute of Nuclear Safety (KINS). It is to analyze the occupational exposure of radiation workers in Korea for the purpose of improvement of radiation protection program for radiation workers. It has databases of dose records of occupational exposure for radiation workers in various fields including nuclear energy, industry, research, education and medical application, etc.

Various types of temporal trends on occupational exposure were analyzed by using databases of KISOE. The Analyses were performed on temporal trends of number of licensees, radiation workers, annual collective dose and annual average dose for 10 categories of license types over a period of 10 years (2002 ~ 2011).

Number of radiation workers has increased about 5% annually during the past decade. Nonetheless, annual collective doses have been kept at the same level and annual average doses have continuously gradually decreased. Based on the analyses, it can be concluded that radiation protection programs for radiation workers have been continuously improved in Korea.

However, more concerns are needed for radiation workers in N.D.T. due to the highest average dose and collective dose.

Besides, it is necessary to continue to improve KISOE system by collecting more detailed data about jobs of radiation workers and by developing more sophisticated method for data analysis.

