

“Analysis of Collective Dose Trends using ISOE Database”

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The ISOE Database contains dosimetric information from commercial nuclear power plants in operation or in some stage of decommissioning (annual total collective dose, outage collective dose, dose per job and task, etc.). The database provides a solid basis for analyses of dose trends.

MADRAS is the data analysis package of using ISOE data as a benchmarking tool. MADRAS Analysis module is improved every year with new developments based on user feedback and requests. New MADRAS analyses planned for 2013 is a set of new queries to improve outage benchmarking

This presentation introduces some examples for the analysis of collective dose trends using pre-defined MADRAS analyses.

The examples of figure show that all automated dose reports facilitate the analysis of main trends in occupational exposure, benchmarking between plants, sister units, etc. The analysis can be easily done at different levels: by region, by reactor type, by sister unit groups, by quartile, etc.

