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TITLE DETECTION OF TRENDS, OUTLIERS, AND RELEASES IN ENVIRONMENTAL  
MONITORING FOR PLUTONIUM AT ROCKY FLATS PLANT / C.R.

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NOTE This report summarizes the results of a statistical analysis of plutonium (Pu-239) concentrations from high volume air samplers at the perimeter of Rocky Flats Plant, Golden, Colorado, and in surrounding communities. The purpose of the study was to develop methodologies to detect trends in plutonium concentrations and to detect outliers not indicative of a release of radioactive material. In addition, a methodology was developed to detect conditions indicating a possible release. We summarize the data screening steps employed and give the results of modelling the data for temporal and spatial systematic effects. Results of outlier determination for past data and a recommendation for future outlier detection is included. A proposal for monitoring for trend and local effects is given.

NOTE Available in print and microfiche.

NOTE Part of the Rocky Flats document collection at the Colorado Dept. of Public Health and Environment.

NOTE Photocopy.

NOTE Radioactive materials monitoring & transport Plutonium 239 radioecological concentration actinide isotopes actinide

nuclei alpha decay radioisotopes distribution ecological  
concentration even-odd nuclei heavy nuclei isotopes  
plutonium isotopes radioisotopes.

SUBJECT Rocky Flats Plant (U.S.)

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