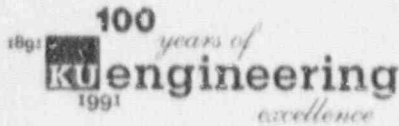


The University of Kansas



January 10, 1991

U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Document Control Desk

Re: Docket No. 50-148

In accordance with Facility License K-78, the following annual report is submitted for the period January 1, 1990 to December 31, 1990.

- a. There has been no major preventative or corrective maintenance to the facility.
- b. There have been no major changes in facility procedures.
- c. A summary of environmental surveys performed outside the facility is attached.
- d. No significant exposures (above 500 mRem) have been received by facility personnel or by visitors. The maximum exposure of any individual has been less than the minimum measurable quantity given by the dosimetry contractor for the films used, 10 mrem or 40 mrem.
- e. There have been no reportable occurrences.

Respectfully submitted,

A handwritten signature in cursive script that reads "Harold F. Rosson".

Harold F. Rosson
Reactor Director

Encl: Summary of Environmental Surveys

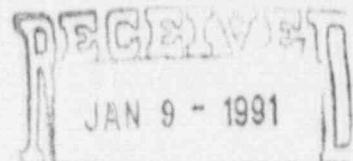
Copy: U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive
Arlington, TX 76911

Nuclear Reactor Committee members
Dean Carl E. Locke
Acting EVC Del Shankel

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PDR ADOCK 05000148
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The University of Kansas



OFFICE OF THE DEAN
SCHOOL OF ENGINEERING

Radiation Safety Service

Environmental Health
and Safety Service

Advisory Committee on
Human Experimentation

7 January 1991

Harold F. Rosson
Reactor Director

Dear Dr. Rosson:

The following summary of air samples taken outside Burt Hall is for the period 12 January 1990 to 27 December 1990. The following results were determined from 12 samples of air taken outside on the west side of the building. All values were below the MPC's for uncontrolled areas. The minimum detectable activity is expressed as MDA.

alpha activity

12 samples < MDA

0 samples > MDA

beta activity

10 samples < MDA

average MDA $0.26 \pm 1.3 \times 10^{-13}$ uCi/ml

0 samples > MDA

gamma activity

10 samples < MDA

average MDA $0.39 \pm 8.1 \times 10^{-13}$ uCi/ml

0 samples > MDA

A review of the exposure records for the period 10 January 1990 to 9 November 1990 shows that no significant exposures (greater than 500 mrem) have been received by facility personnel or visitors. The exposures recorded for any individual are below the minimum measurable quantity given by the dosimetry contractor for the films used. These quantities are 10 mrem and 40 mrem for x, gamma and energetic beta particles, respectively.

Sincerely,

Judith deChamplain
Radiation Protection Specialist Research Health & Safety
Burt Hall • Lawrence, Kansas 66045-2905 • (913) 864-4089