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RADIATION SAFETY SERVICE

THE UNIVERSITY OF KANSAS

Lawrence, Kansas 66045

Nuclear Reactor Center

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This report is specific for the year beginning on July 1, 1981, and ending on June 30, 1982. In the cases where it is shown, the error is given at 2 σ .

Gross beta and gamma activities released to the sanitary sewer system from the demineralizer regeneration effluent hold-up tank were less than 0.135 uCi and less than 0.183 uCi respectively. (Except for the Dec. 10 sample of beta contribution, 0.113 \pm 0.101 uCi, the values represent the minimum detectable activities.)

Air samples taken outside the Reactor Building were as follows:

beta activity	18 samples < MDA	
	average MDA	(1.31 \pm 1.96) $\times 10^{-12}$ uCi/ml
	4 samples > MDA	ave 3.1 $\times 10^{-12}$ uCi/ml
gamma activity	15 samples < MDA	
	average MDA	(8.50 \pm 16.20) $\times 10^{-12}$ uCi/ml
	4 samples > MDA	ave 1.86 $\times 10^{-11}$ uCi/ml

Air samples taken inside the Reactor Building were as follows:

beta activity	24 samples < MDA	
	average MDA	(0.91 \pm 1.56) $\times 10^{-12}$ uCi/ml
	3 samples > MDA	ave 2.54 $\times 10^{-12}$ uCi/ml
gamma activity	16 samples < MDA	
	average MDA	(6.21 \pm 14.67) $\times 10^{-12}$ uCi/ml
	2 samples > MDA	ave 8.01 $\times 10^{-12}$ uCi/ml

Rad. Safety

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