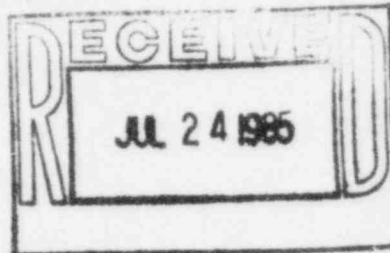




Chemical Engineering
102 Nuclear Reactor Center
913-UN 4-3938

July 18, 1985

Mr. G.L. Madsen
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive
Arlington, TX 76911



Re: Docket No. 50-148

Dear Mr. Madsen:

In accordance with Facility License R-78 I submit the following annual report for the period July 1, 1984 to June 30, 1985.

1. The reactor was not operated during the period; hence no megawatt hours were accumulated.
2. There were no unscheduled shutdowns.
3. Routine maintenance has been successful in avoiding any necessity for performing special preventative and corrective maintenance having safety significance.
4. There have been no changes in the facility or in the procedures nor have any test or experiments been carried out without prior approval by the NRC pursuant to 10 CFR 50.59.
5. There was no release of any activity to the sanitary sewer system from the demineralizer regeneration effluent hold-up tank during the period stated above.
6. The following results were determined from 50 samples of air taken outside of the reactor building. All values were below the MPC's for uncontrolled areas. The minimum detectable activity is expressed as MDA.

alpha activity	32 samples < MDA	
	average MDA	$0.46 \pm 1.02 \times 10^{-14} \mu\text{Ci/ml}$
	0 samples > MDA	
beta activity	41 samples < MDA	
	average MDA	$0.48 \pm 1.42 \times 10^{-13} \mu\text{Ci/ml}$
	0 samples > MDA	
gamma activity	37 samples < MDA	
	average MDA	$0.43 \pm 1.31 \times 10^{-12} \mu\text{Ci/ml}$
	1 sample > MDA	$1.65 \pm 1.31 \times 10^{-12} \mu\text{Ci/ml}$

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Mr. G.L. Madsen
July, 18, 1985
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7. The following results were determined from 50 samples of air taken in the reactor bay of the reactor building. All values were below the MPC's for uncontrolled areas. The minimum detectable activity is expressed as MDA.

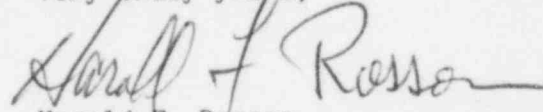
alpha activity	40 samples < MDA	
	average MDA	$0.30 \pm 0.77 \times 10^{-14} \mu\text{Ci/ml}$
	0 samples > MDA	
beta activity	44 samples < MDA	
	average MDA	$0.26 \pm 0.99 \times 10^{-13} \mu\text{Ci/ml}$
	0 samples > MDA	
gamma activity	42 samples < MDA	
	average MDA	$0.30 \pm 0.90 \times 10^{-12} \mu\text{Ci/ml}$
	1 sample > MDA	$0.88 \pm 0.82 \times 10^{-12} \mu\text{Ci/ml}$

8. No facility personnel or visitors received any significant radiation exposure.
9. The membership of the University's Committee on Radiation Sources is currently:

Professor Francis Prosser, Chairperson	Physics
Professor Donald Robertson, Vice Chairperson	Microbiology
Professor Walter Dixon	Pharmacology & Toxicology
Professor Robert Sanders	Biochemistry
Professor Harold Rosson	Chemical & Petroleum Engineering

The Nuclear Reactor Committee remains the same.

Very truly yours,


Harold F. Rosson
Professor

HFR:dm

cc: Nuclear Reactor Committee