

Amendment to the Annual Report on the Operations  
of the Washington State University TRIGA Reactor

Facility License R-76 for the reporting period of July 1, 1983 to  
June 30, 1984.

Some of the personnel and environmental radiation exposure data was  
not available at the time the Annual Report was prepared. The complete  
radiation exposure sections are as follows:

Page 4, Section G, Table VI, Average Quarterly Reactor and Experimenter  
Staff Exposure.

May and June badge results were not included. Below is the completed  
Table VI:

Table VI

Average Quarterly Reactor/Experimenter Staff Exposures  
(in millirems)

Jul-Aug-Sep	Oct-Nov-Dec	Jan-Feb-Mar	Apr-May-Jun
24	14	52	7

Page 5, Section I, Environmental Monitoring Program, Table VII

Below is the completed Environmental Radiation Levels, Table VII

Table VII

Environmental Radiation Levels in the Vicinity of the WSU  
Nuclear Reactor\*

J-A-S	O-N-D	Exposure in uR/day		Median
		J-F-M	A-M-J	
143	248	193	80	166

\*Sampling stations 50 meters or greater distance

Table VIII

Exposure Rates Adjacent to the WSU Reactor\*

	Exposure in uR/day				Median
	JAS	OND	JFM	AMJ	
Building Entrance	167	237	222	0	157
E. Lower Loading Dock	67	250	210	200	182
E. Pool Room Door	5300	224	3551	67	2286
Storage Shed	1167	217	713	0	524
N. Side of Building	133	230	228	200	198
W. Beam Room Door	200	230	210	200	210
W. Side of Building	400	217	246	267	283

\*Sampling stations less than 50 meters distance

Page 6, Section I, ALARA Specifications in Technical Specifications in 3.12(2)

Calendar year 1983 ALARA limits for closest offsite extended occupancy vs. background radiation exposure ratio was given in the Annual Report. Below is the fiscal year data for the reporting period of July 1, 1983 to June 30, 1984.

For the reporting period, the average background radiation level for sampling points 400 meters or greater from the facility was 18/uR/day. The average radiation level at the closest extended occupied area 380 meters away was 214 uR/day which yields a ratio of exposure to background of 18.2%. ALARA limit is 20% exposure ratio.

WASHINGTON STATE UNIVERSITY  
PULLMAN, WASHINGTON 99164

NUCLEAR RADIATION CENTER

October 25, 1984

Director, Division of Reactor Licensing  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20545

Re: Docket No. 50-27  
Facility License R-76

Subject: Amendments to 1983-1984 Annual Report

Dear Sir:

Please find enclosed an amendment to the 1983-1984 annual report for facility license R-76 that includes data that was not available at the time the report was submitted.

Sincerely,

*W. E. Wilson*

W.E. Wilson  
Associate Director

WEW:mt

Enc.

cc: John Sheppard, Chairman  
Reactor Safeguards Committee  
C.J. Nyman, Dean of the  
Graduate School  
N.R.C.-Region V, Office of  
Inspection and Enforcement  
J.A. Neidiger

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