

August 1, 2011

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Reference: Washington State University
Docket No. 50-27, License No. R-76

Subject: Submittal of Technical Specifications for the Washington State University Research
Nuclear Reactor

Washington State University (WSU) has applied to renew operating License Number R-76 (Docket number 50-27). As part of the license renewal process, Washington State University has submitted proposed Technical Specifications. An additional proposed Technical Specification is included as an attachment with this letter. The additional proposed Technical Specification in this letter is intended to replace pages 69 and 70 of the proposed Technical Specifications that were submitted on July 15, 2011.

I declare under penalty of perjury that to the best of my knowledge the foregoing is true and correct.

Date Executed 8/1/11

Respectfully Submitted



Donald Wall, Ph.D.
Director

AB20
NRR

- (6) a summary of the nature and amount of radioactive effluents released or discharged to the environs beyond the effective control of the licensee as measured at or before the point of such release or discharge:
- (7) liquid waste (summarized on a monthly basis):
 - (a) monthly radioactivity discharged;
 - (b) total estimated quantity of radioactivity released (in curies);
 - (c) an estimation of the specific quantity for each detectable radionuclide in the monthly release;
 - (d) fraction of 10 CFR 20 Table 3, Appendix B limit for each detectable radionuclide taking into account the dilution factor from the total volume of sewage released by the licensee into the sewage system;
 - (e) sum of the fractions for each radionuclide reported above;
 - (f) total quantity of radioactive material released by the facility into the sewage system during the reporting period.
- (8) gaseous waste (summarized on a monthly basis) radioactivity discharged during the reporting period, including:
 - (a) total estimated quantity of radioactivity released (in curies) determined by an appropriate sampling and counting method;
 - (b) total estimated quantity of ^{41}Ar released (in curies) during the reporting period based on data from an appropriate monitoring system;
 - (c) estimated average atmospheric diluted concentration of ^{41}Ar released during the reporting period in terms of $\mu\text{Ci/mL}$ and fraction of the applicable DAC value;
 - (d) total estimated quantity of radioactivity in particulate form with half-lives greater than 8 days (in curies) released during the reporting period as determined by an appropriate particulate monitoring system;
 - (e) average concentration of radioactive particulates with half-lives greater than 8 days released in $\mu\text{Ci/mL}$ during the reporting period;
 - (f) an estimate of the average concentration of other significant radionuclides present in the gaseous waste discharge in terms of $\mu\text{Ci/mL}$ and fraction of the applicable DAC value for the reporting period if the estimated release is greater than 20% of the applicable DAC.
- (9) solid waste (summarized on an annual basis)

- (a) total amount of solid waste packaged (in cubic feet),
 - (b) total radioactivity in solid waste in curies,
 - (c) the dates of shipment and disposal (if shipped off-site).
- (10) an annual summary of the radiation exposure received by facility personnel and visitors in terms of the average radiation exposure per individual and the greater exposure per individual in the two groups. Each exposure in excess of the limits of 10 CFR 20 shall be reported, including the time and date of the exposure as well as the circumstances that led to the exposure.
- (11) an annual summary of the radiation levels including contamination levels observed during routine surveys performed at the facility including a summary of the average and highest levels;
- (12) an annual summary of environmental surveys performed outside the facility.

6.11 Written Communications

All written communications with the U.S Nuclear Regulatory Commission shall be made in accordance with the requirements of 10 CFR 50.4 "Written Communications."

WASHINGTON STATE



UNIVERSITY

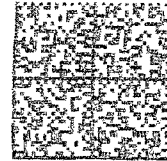
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