



December 12, 1993

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Ref: Docket 50-27

Dear Sir:

In accordance with the provisions of the Code of Federal Regulations section 10 CFR 50.4 and 50.36, Washington State University TRIGA reactor facility (License No. R-76) requests to amend its Technical Specifications. The proposed changes are necessary to make our document comply with the new 10 CFR 20 regulations and to correct some minor errors. The document including the proposed changes has been reviewed and approved by the Facility Reactor Safeguards Committee.

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Proposed Changes:

Page	Change
2	In <u>Reportable Occurrence</u> : (2) change "limiting condition for operation" to "limiting condition of operation listed in Section 3.0"
13	In section 3.8, <u>Specification</u> : change " $4 \times 10^{-8} \mu\text{Ci/ml}$ " to " $1 \times 10^{-8} \mu\text{Ci/ml}$ "
13	In section 3.8, <u>Basis</u> : change " $4 \times 10^{-8} \mu\text{Ci/ml}$ " to " $1 \times 10^{-8} \mu\text{Ci/ml}$ "
14	In section 3.9, <u>Basis</u> : change "maximum permissible concentration (MPC) values." to "derived air concentration (DAC)."
14	In section 3.9, <u>Basis</u> : change "the appropriate MPC value." to "the appropriate DAC value."
14	In section 3.10, <u>Specification</u> : (5) change "In calculations pursuant to item 4 above," to "In calculations pursuant to item 5 above,"

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- 18 In section 3.14, Specification: (3) change  
"10 CFR 20 Appendix B, Table II, Column 2 value"  
to "10 CFR 20 Appendix B, Table 3 value"
- 19 In section 3.14, Basis: (3) change  
"Table II, Column 2 limit for  $^{60}\text{Co}$  is  $3 \times 10^{-3} \mu\text{C}/\ell$ ."  
to "Table 3 limit for  $^{60}\text{Co}$  is  $3 \times 10^{-5} \mu\text{Ci}/\text{m}\ell$ ."  
  
also change  
"worst case would be at least  $1 \times 10^{-4} \mu\text{C}/\ell$ , or 100  $\text{Pc}/\ell$ , or about  
one-thirtieth of the 10 CFR 20 limit stated above. Setting a limit of ten times  
the detection limit and one-third the discharge limits provide the facility"  
to "worst case would be at least  $1 \times 10^{-7} \mu\text{Ci}/\text{m}\ell$ , or 100  $\text{pCi}/\ell$ , or  
about one-three-hundredth of the 10 CFR 20 limit stated above. Setting a  
limit of 100 times the detection limit and one-third the discharge limits  
provides the facility"
- 22 In section 4.3.3, Specifications: change  
"a calibration of the A-41 system"  
to "a calibration of the Ar-41 system"
- 32 In section 6.5.2, change  
"The University's Radiation Safety Supervisor"  
to "The University's Radiation Safety Director"
- 32 In section 6.5.4, Reviews: add to the list of RSC responsibilities  
"(9) annual review of the radiation protection program"
- 34 In section 6.8, item (7) change  
"power equipment"  
to "power calibration"

"Liquid Waste (summarized on a monthly basis)"

- (i) radioactivity discharged during the reporting period
- total estimated quantity of radioactivity released (in curies),
  - an estimation of the specific activity for each detectable radionuclide present if the specific activity of the released material after dilution is greater than 10 CFR20 Appendix B limits,
  - summary of the total release (in curies) of each nuclide determined just above for the reporting period based on representative isotopic analysis,
  - estimated average concentration of the released radioactive material at the point of release for the reporting period in terms of  $\mu\text{Ci/cc}$  and fraction of the applicable MPC.
- (ii) total volume (in gallons) of effluent water (including dilutant) released during each period of release"

to

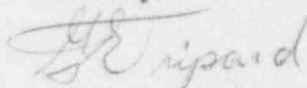
"Liquid Waste (summarized on a monthly basis)"

- (i) monthly radioactivity discharged
- total estimated quantity of radioactivity released (in curies),
  - an estimation of the specific quantity for each detectable radionuclide in the monthly release,
  - 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,
  - sum of the fractions for each radionuclide reported above.
- (ii) total quantity of radioactive material released by the facility into the sewage system during the year period of the report"

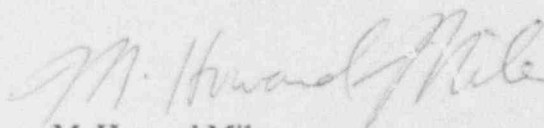
- 37 In section 6.10, Gaseous Waste, (i) change  
" in terms of  $\mu\text{Ci/cc}$  and fraction of the applicable MPC value,"  
to " in terms of  $\mu\text{Ci/ml}$  and fraction of the applicable DAC value,"
- 37 "greater than 8 days released in  $\mu\text{Ci/cc}$  during the"  
to "greater than 8 days released in  $\mu\text{Ci/ml}$  during the"
- 38 In section 6.10, Gaseous Waste, (i) change  
"terms of  $\mu\text{Ci/cc}$  and fraction of the applicable MPC value for the reporting  
period if the estimated release is greater than 20% of the applicable MPC,"  
to "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,"
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If you have any questions, please contact Dr. Gerald Tripard, Facility Director (509) 335-0172

Sincerely,



Gerald E. Tripard  
Director



M. Howard Miles  
Chair, Reactor Safeguards Committee

cc: Region V NRC office