



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

June 21, 2005

Docket No. 03005394  
Control No. 136336

License No. 29-11577-01

Von Worthington  
President  
Worthington Biochemical Corporation  
730 Vassar Avenue  
Lakewood, NJ 08701

SUBJECT: WORTHINGTON BIOCHEMICAL CORPORATION, REQUEST FOR  
ADDITIONAL INFORMATION CONCERNING APPLICATION FOR RENEWAL  
OF LICENSE, CONTROL NO. 136336

Dear Mr. Worthington:

This is in reference to your letter dated January 10, 2005 requesting to renew Nuclear Regulatory Commission License No. 29-11577-01. This also refers to the email sent by Tom Thompson of this office to David Skrincosky, dated February 17, 2005. In order to continue our review, we need the following additional information:

1. Section 8.10.2 of NUREG-1556, Volume 7, "Consolidated Guidance About Materials Licensees, Program-Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope" (NUREG-1556, Volume 7) requires that you specify the radiation detection instruments that you have available. Include the type (Geiger Muller, Ion Chamber, etc) and number of instruments available, the types of radiation detected, the range (milliroentgens per hour or counts per minute), and the intended use (monitoring, surveying, assaying or measuring). Appendix M of NUREG-1556, Volume 7 addresses radiation monitoring instrument specifications and may be helpful in developing your response.
2. Section 8.10.2 of NUREG-1556, Volume 7, requires that you describe your instrument calibration procedures and the frequency of instrument calibration. If your instruments will be calibrated by the instrument manufacturer or a person specifically authorized by the U.S. Nuclear Regulatory Commission or an Agreement State for instrument calibration, you only need to specify the name of the firm and the license number that authorizes the firm to perform calibration services, and the calibration frequency. If you intend to calibrate your own instruments, please submit your calibration procedures including calibration frequency. Appendix M of NUREG-1556, Volume 7, contains calibration procedures acceptable to the Commission and may be helpful to you in developing your response.
3. Section 8.10.6 of NUREG-1556, Volume 7 requires that you have in place general rules for safe use of radioisotopes. Please confirm that you will have developed general rules for safe use of radioisotopes. Appendix P of NUREG-1556, Volume 7 provides general topics for safe use of radioisotopes may be helpful in developing your procedures.

4. Section 8.10.6 of NUREG-1556, Volume 7 requires that you have in place emergency procedures. Please confirm that you have developed and post emergency procedures. Appendix P of NUREG-1556, Volume 7 provides model emergency procedures and may be helpful in developing your procedures.
5. Section 8.10.7 of NUREG-1556, Volume 7 requires that you provide information describing the types of surveys and frequency at which surveys will be performed. Appendix Q of NUREG-1556, Volume 7, contains information that may be helpful in developing your survey program.
6. Provide additional detail about your waste disposal procedures. Appendix T of NUREG-1556, Volume 7 contains waste handling and disposal procedures that are acceptable, and may be helpful in developing your waste handling and disposal procedures.

Current NRC regulations and guidance are available at the NRC web site at <http://www.nrc.gov/materials/miau/mat-toolkits.html> and <http://www.nrc.gov/who-we-are/governing-laws.html> or by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 9:00 p.m. EST, Monday through Friday (except Federal holidays).

We will continue our review upon receipt of this information. Please reply to my attention at the Region I Office and refer to Mail Control No. 136336. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-5040.

In order to continue prompt review of your application, we request that you submit your response to this letter within 15 calendar days from the date of this letter.

Sincerely,

***Original signed by Elizabeth Ullrich***

Betsy Ullrich  
Senior Health Physicist  
Commercial and R&D Branch  
Division of Nuclear Materials Safety

cc:  
David Skrincosky, Ph.D., Radiation Safety Officer

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