

From: Elizabeth Ullrich
To: Michael Baseline
Date: Tue, Aug 21, 2007 8:41 AM
Subject: your application dated July 17, 2007 (Control No. 140849)

LN 29-30779-01
DN 030-36136
Control No. 140849
Spectra Gases

Michael,

Based on our telephone discussion yesterday regarding your July 17 application, I have the following questions for you:

1. If I understand your application correctly, you are planning to receive tritiated water in order to recover the oxygen-18. I further understand that your processing will result in a useful product line of oxygen gas (O₂) that is labeled with O-18, and a waste stream of tritiated hydrogen gas. If my understanding is incorrect, please let me know. Will the O-18 oxygen gas product also be included in your Item 9.A "distribution of gas products to persons exempt from licensing in accordance with 10 CFR 30.14" authorization? Please note that in Item 6 of your application, you have as the proposed use "use the de-tritiated O-18 water for commercial applications" so that it appears you will have a liquid product, not a gaseous product.
2. Briefly describe the handling and processing procedures for the tritiated water you wish to receive for removal of the tritium. Identify any areas in particular that may raise radiation safety concerns (potential for contamination from tritiated water or uptake from tritiated water/water vapor) that are different from those items already addressed by your handling of tritiated hydrogen gas.
3. You committed to performing surveys in accordance with App R of Vol 12; however, App R deals with transportation. Confirm that you will correct this to Appendix P "Radiation Safety Survey Topics" and please let me know how frequently you expect to perform surveys of areas where tritiated water is used (App P provides categories and modifying factors but you have to determine what is applicable).

Please note that you may not reply to this letter by return e-mail. Your reply must be in writing by letter or facsimile (610-337-5269), and signed. If we do not receive a reply from you within 30 calendar days from the date of this e-mail, we will assume that you do not wish to pursue your application. If you have any questions, contact me at (610) 337-5040 or email to exu@nrc.gov.

thanks,
Betsy

Betsy Ullrich, Senior Health Physicist
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From: Elizabeth Ullrich

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Recipients

spectragases.com
MichaelB (Michael Baselice)

Post Office

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