



March 27, 2012

Ms. Toye Simmons
United States Nuclear Regulatory Commission
Division of Nuclear Materials Safety
U.S. NRC Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

SUBJECT: License Amendment to increase the tritium possession limit

Dear Ms. Simmons:

I am writing to request that the Analytical Bio-Chemistry Laboratories license (24-13365-01) be modified to increase the possession limit of hydrogen-3 from the current level of 1 Curie to 5 Curies.

We are experiencing a greater number of requests for tritiated molecules, and this has led to a need for us to purchase and inventory a larger quantity of tritium than in the past. This is due principally to a higher number of requests than in the past and, to a lesser degree, in the higher quantities of labeled molecules being requested. Since tritium is not currently a major contribution to our air emissions, this change is not expected to be significant.

We are not pursuing a major change in the scope of our activities; specifically, we are not installing a tritium gas manifold, but rather will continue to do traditional synthetic chemistry using tritiated reagents.

Separately, if the request to change RSC chairmen from Mr. Scott Ward to Mr. Troy DeVault is not yet in process, you may find it convenient to combine that RSC change with this request. A copy of Mr. Creach's letter of December 27, 2011 is attached for your convenience.

Please let me know if you have any questions.

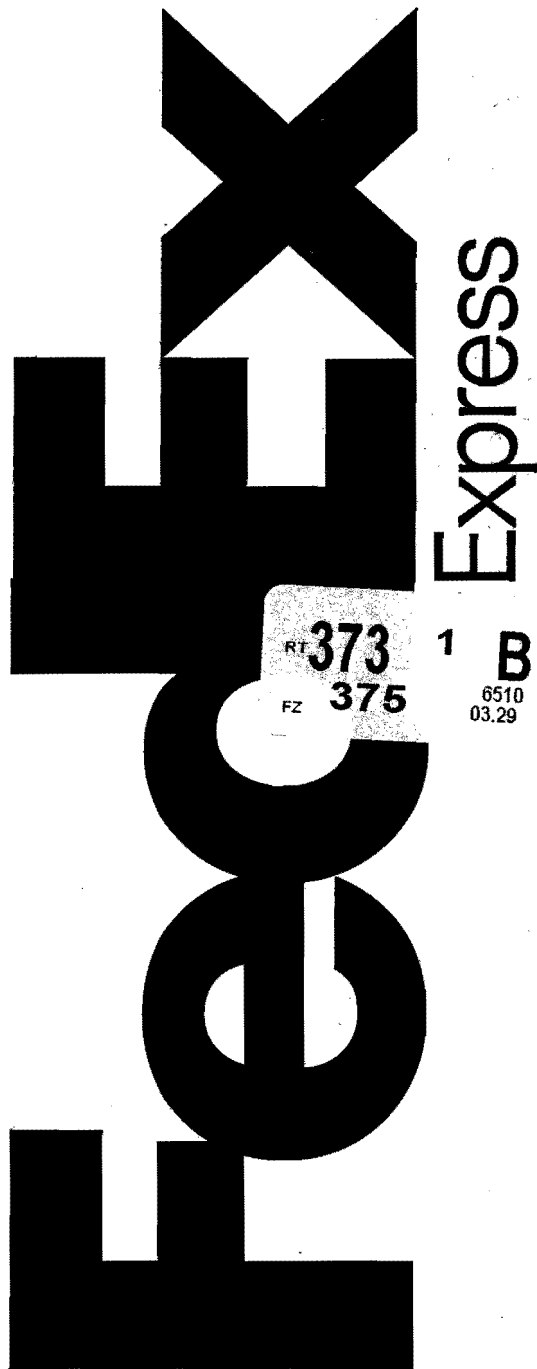
Best Regards,

Bradly D. Keck, PhD, CHP
Radiation Safety Officer
Analytical Bio-Chemistry Laboratories, Inc.

Cc: Troy DeVault, ABC

Attachments: Dale Creach letter

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From: (573) 777-8296
Donna Chickering
ABC Labs
7200 E. ABC Lane
Columbia, MO 65202

Origin ID: COUA



Ship Date: 29MAR12
ActWgt: 1.0 LB
CAD: 102560731ANET3250

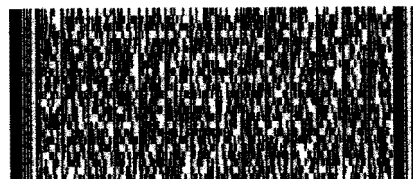
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BILL SENDER
Ms. Toye Simmons
U.S. Nuclear Regulatory Commission
2443 WARRENVILLE RD STE 210

LISLE, IL 60532



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