



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

**RECEIVED MAR 30 2012**

# FedEx

# Express

RT 373  
FZ 375  
1 B  
6510  
03.29

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: 102560731/NET3250

Delivery Address Bar Code



Ref # Brady Keck - 710  
Invoice #  
PO #  
Dept # 710

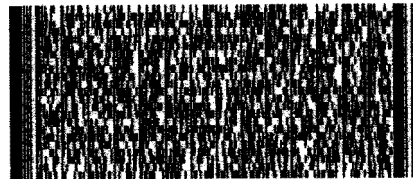
SHIP TO: (573) 777-6070  
BILL SENDER  
Ms. Toye Simmons  
U.S. Nuclear Regulatory Commission  
2443 WARRENVILLE RD STE 210

LISLE, IL 60532

THU - 29 MAR A1  
PRIORITY OVERNIGHT

TRK# 7982 2152 6510  
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DSR  
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*The World On Time.*

# Envelope

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