



101 ARC Drive
Saint Louis, MO 63146 USA
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1 November 2011

U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4351

ATTN: Kevin Null

LICENSE No: 24-21362-01

SUBJECT: Request for Amendment to Our License

Gentlemen:

American Radiolabeled Chemicals, Inc (ARC) requests amendment of our license to allow the use of the Building known as the 300 Annex for low level analysis of samples from the main laboratories.

This building was originally designed for use as a synthesis lab for labeling compounds with I-125, P-32, H-3, C-14 and S-35 in the amounts specified in the existing license. Do to the realization by ARC that the volume of these syntheses was not increasing, **this lab will not be used for production level synthesis of these compounds.**

The building contains four laboratory spaces, two to either side of a central hall way. Each set of two labs is trunked to a single exhaust blower.

It is ARC's intent to use the two labs on the left of the hall for "cold" chemical preparation. This will eliminate the present method of doing cold preps in the same lab as multi-Curie amounts of the various nuclides. This will remove the potential for cross contamination.

The two labs on the right of the central hall will be used for purification and analysis of radiolabeled compounds and preparation of certificates of analysis. At present, these analyses are limited by: (a) the requirement to perform the analysis in the same lab as production, (b) The necessity to ship samples to outside labs for analysis, and (c) The lack of space to install updated analytical equipment. **These labs will not be used for any production of radiolabeled compounds.**

The Annex is designed so that there is no direct connection between it and the production labs. That is an individual, in order to leave production and go to analytics, will have to remove PCE and "frisk out" of the production lab, exit the production lab building, and enter the Annex. This will eliminate the possibility of wearing highly contaminated PCE into the analytic lab.

The normal sample size will vary with the nuclide and with the specific activity, however, the activity of an individual sample will be in the microcurie range.

It is envisioned that with samples in storage, samples in process and with dry and liquid waste, the total activity in the Annex will normally be less than 100 millicuries from all nuclides.

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ARC requests expedited processing of this request. We are purchasing a Liquid Chromatography Mass Spectrometer (LCMS). This instrument has a warranty of only ninety days. This time will allow for training and any adjustment prior to use with any radioactive material. Without the use of the Annex we will have to cancel the purchase and continue to ship samples around the country for analysis.

If you have any questions or require clarification on any of contained information, you may contact Regis A Greenwood, CHP, our RSO, directly at 314-991-4545.

Sincerely

AMERICAN RADIOLABELLED CHEMICALS, INC

A handwritten signature in black ink that reads 'Surendra K Gupta'.

Surendra K Gupta, PhD

President

American Radiolabeled Chemicals

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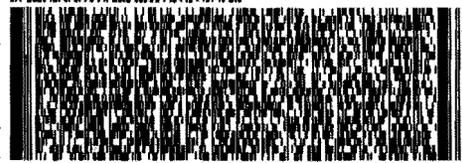
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AMERICAN RADIOLABELED CHEMICALS
101 ARC DRIVE
ST. LOUIS, MO 63146
UNITED STATES US

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BILL SENDER

TO **ATTN: KEVIN NULL**
U.S. NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD, SUITE 210
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(314) 991-4545 REF: NRC LETTER
DEPT: NRC LETTER

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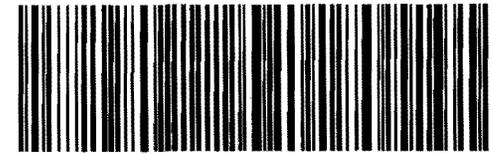
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