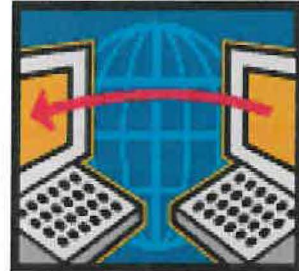




**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION IV
1600 E. LAMAR BLVD.
ARLINGTON, TX 76011-4511



EMAIL

Name: Catherine Heyneman, ANP, RSO License: 11-29216-01MD
Docket: 030-37048
Organization: Advanced Isotopes of Idaho Control: 589625
Phone: 208-237-9730
E-mail Address: nukedoses@gmail.com
From: Michelle M. Hammond
Date: April 29, 2016
Subject: Application dated November 11, 2015
Pages: 2

Ms. Heyneman:

Per your application dated November 11, 2015 for your license, the items listed on Page 2 are deficiencies which require your response. **Please respond to this e-mail by May 13, 2016.** You may respond by e-mail in pdf format if you'd like. My email address is michelle.hammond@nrc.gov. Our fax number is (817) 200-1188. When responding to this e-mail, please include the license, docket and control numbers located at the top of this page.

Thanking you in advance for your cooperation, assistance, and prompt response in this matter.

/RA/
Michelle M. Hammond, M.Sc.
Health Physicist

Regarding your previous inspection and the fume hood system, please address the following:

- 1) In letter dated July 8, 2015, Response to Violation, (ML15196A385), you state that you were proposing to purchase a new hood – Biodex Fume Hood #190-210. This document included the specifications. Are you still planning to purchase this new hood?? If so, please submit new hood specifications, manufacturer's instructions, configuration, calculations, and engineering controls.
- 2) If you will not purchase a new hood, please address the following items regarding your existing system:
 - a) Hood "D" comprised of Plexiglas with a silicon sealer and screws should be evaluated at intervals (for example quarterly) for gaps and/or leakage. Please describe how you will ensure gaps and/or leakage will be assessed and at what interval.
 - b) On the diagram, "A" is labeled as the 4" intake of the barrel carbon filter, but it should be labeled "intake of carbon trap" or "exit from barrel carbon filter to barrel carbon trap." Please confirm.
 - c) Please specify if the blower above the hood is operating continuously or just when work is conducted in hood "D" on the diagram.
 - d) Please specify if the pump upstairs is operating continuously or while working in the hood.
- 3) All of the calculations and flow balance provided are with the "vent louvers shut". Please provide the calculations for "vent louvers open" or commit to always having the vent louvers shut.
- 4) On page 71 of your application with procedures, it states that the flow was calculated at 266 cfm on 10/24/2015. However, on page 76 it states that the air flow was 619 cfm measured on 10/24/2015. Which number is correct? Determine the correct number then re-do the calculations with the correct number or re-measure it and re-do the calculations.