



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

May 31, 2006

Docket No. 03037197  
Control No. 138748

License No. 37-31148-01

Rajesh Manchanda, Ph.D.  
Vice President  
Avid Radiopharmaceuticals, Inc.  
3701 Market Street  
Philadelphia, PA 19104

**SUBJECT: AVID RADIOPHARMACEUTICALS, INC., REQUEST FOR ADDITIONAL INFORMATION CONCERNING APPLICATION FOR NEW LICENSE, CONTROL NO. 138748**

Dear Dr. Manchanda:

This is in reference to your application dated April 18, 2006 applying for a Nuclear Regulatory Commission license. In order to continue our review, we need the following additional information:

1. On your application for a new license, you requested Iodine-123 (I-123). I-123 is produced in a cyclotron and is not byproduct material as defined in 10 CFR 30.4 and is not subject to licensing by the NRC. Therefore, you may procure and use it without amendment to your NRC material license. However, you should contact your State regulatory authorities to determine the State licensing or registration requirements for use of this radionuclide.
2. In your application, you identify Rajesh Manchanda as your Radiation Safety Officer and Zhi Ping Zhuang, Tyler Benedum, and Geoff Golding as Authorized Users. Please describe formal training in the following areas for each individual:
  - a. principles and practices of radiation protection;
  - b. radioactivity measurements standardization and monitoring techniques and instruments;
  - c. mathematics and calculations basic to the use and measurement of radioactivity; and
  - d. biological effects of radiation.

In addition, describe the specific isotopes each individual has handled, the maximum quantities of materials handled, where the experience was gained, the duration of the experience and the type of use.

R. Manchanda  
Avid Radiopharceuticals, Inc.

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3. Submit a diagram showing the locations of shielding, the proximity of radiation sources to unrestricted areas, and other items related to radiation safety. Also, please describe the areas, adjacent, above and below the location of use.

Current NRC regulations and guidance are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Industrial, and Academic Uses of Nuclear Material**; then **Toolkit Index Page**. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 9:00 p.m. EST, Monday through Friday (except Federal holidays).

We will continue our review upon receipt of this information. Please reply to my attention at the Region I Office and refer to Mail Control No. 138748. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-5143.

If we do not receive a reply from you within 30 calendar days from the date of this letter, we will assume that you do not wish to pursue your application.

Sincerely,

***Original signed by Farrah C. Gaskins***

Farrah C. Gaskins  
Health Physicist  
Commercial and R&D Branch  
Division of Nuclear Materials Safety

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**SISP Review Complete: FGaskins**

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