



STOWERS INSTITUTE®  
FOR MEDICAL RESEARCH

30 January 2007

Materials Licensing Section  
U.S. Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352

Subject: **LICENSE AMENDMENT APPLICATION – PLEASE EXPEDITE**  
**License No: 24-32242-01**

The Stowers Institute for Medical Research (Stowers Institute) requests an amendment to the U.S. Nuclear Regulatory Commission (NRC) Radioactive Materials License, as detailed below. The item numbers correspond to those on the NRC Form 313, Application for Material License. Only those items pertinent to this amendment are listed.

**Item 1.** This application is for amendment of license no. 24-32242-01

**Item 2.** The name and mailing address of the applicant:

Stowers Institute for Medical Research  
1000 E. 50<sup>th</sup> Street  
Kansas City, MO 64110

**Item 3.** Same address as above.

**Item 4.** The person to be contacted about this application is Ms. Tonyea R. Inglis, Radiation Safety Officer, phone (816) 926-4434, fax (816) 926-2076; e-mail [tri@stowers-institute.org](mailto:tri@stowers-institute.org). Also, please find attached an updated organizational chart detailing the reporting structure for the Radiation Safety Officer. This has changed since our original license submission in May 2000.

**Item 7.** Stowers Institute requests the **addition** of the following person to the license as an authorized user for the corresponding materials listed:

**Ali Shilatifard, Ph.D.**  
Investigator

*Phosphorus-32*  
*Hydrogen-3*

**RECEIVED FEB 02 2007**

Ali Shilatifard previous radiation safety training:

Training courses were general in nature, covering the principals of radiation protection, radioactivity measurements, biological effects of radiation exposure, characteristics of ionizing radiation, units of radiation dose and quantities, and radiation detection instrumentation.

<b>Course Title</b>	<b>Institution</b>	<b>Duration of Training</b>
Radiation Safety Course	University of Georgia	One Day
Radiation Safety Course	Oklahoma Medical Research Foundation	Once a Year
Radiation Safety Course	Saint Louis University School of Medicine	One Day

Ali Shilatifard previous experience with radioisotopes:

Dr. Shilatifard has over 15 years of experience with radioactive materials, including Iodine 125, Hydrogen 3, Sulfur 35, Carbon 14 and Phosphorous 32.

32P: Labeling of nucleic acid, DNA and RNA using in-vitro transcription, in-vitro kinase assays (PCR, Terminal transferase, T4 DNA polymerase etc...); usage amounts ranged from 10 uCi amounts – 500 uCi per procedure; handling time ranged from a few minutes to several hours. Dr. Shilatifard has been using this isotope in the experiments described above for over 15 years. .

3H: Will be used in histone methyltransferase and acetyltransferase assays. Amounts used can range from 0.5 uCi amounts – 50 uCi per procedure; handling time ranged from a few minutes to several hours. Dr. Shilatifard has been using this isotope in the experiments described above for over 7 years.

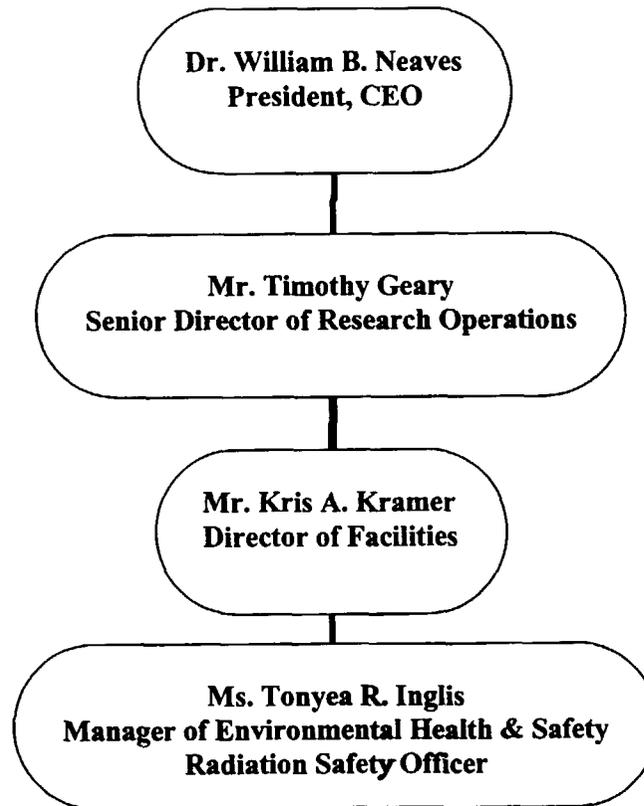
If you have any questions or require additional information, please contact me at the number(s) listed in Item 4. Thank you in advance for your prompt action on our behalf.

Stowers Institute for Medical Research



Tonyea R. Inglis  
Radiation Safety Officer

# Radiation Safety Reporting Structure

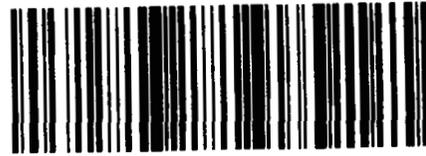


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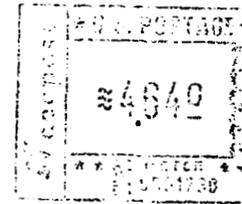


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Tonyea R. Inglis, RSO



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