UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

SEP 08 2008

Shannon K. McCarthy, M.D.
Radiation Safety Officer
Nuclear Cardiology Associates, P.C.
8564 Broadway
Merrillville, IN 46410

Dear Dr. McCarthy:

Enclosed is Amendment No. 5 to your NRC Material License No. 13-32503-01 in accordance with your request. Please note that the changes made to your license are printed in **bold** font.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please note, that we have reformatted Subitem Nos. 6, 7, and Condition No. 12 to remove all references to exclude authorizations such as "generators, xenon-133, and, limited to cardiovascular procedures."

Please be reminded, however, that you are still bound by the restrictions imposed by the excluded authorizations contained in documents incorporated into your license by Condition No. 15 in your license.

Please be advised that we cannot authorize you to release your old facility located at 9001 Broadway, Merrillville, for unrestricted use (even by other members of your staff) until we have received and reviewed a copy of the results of your close-out survey. The survey should consist of exposure rate measurements to show that all sources of radioactive material have been removed, and contamination checks of areas where radioactive materials were used or stored. Average radiation levels associated with surface contamination and removable contaminations should not exceed those specified in the enclosed decontamination guide. Please submit the following information with your close-out survey:

a. A history of all radionuclides used at your old facility.

b. A current copy of the leak test results for the sealed sources used at your old facility. Also a history of leaking sealed sources (if any).

c. A diagram of your old facility with survey and wipe test results keyed to specific locations. Please record your survey results using the appropriate units as described in 10 CFR 30.36 (j) (2) (i) (copy enclosed).

d. The name of the person performing the survey.

e. The date the survey was performed.

f. The instrument(s) used for exposure rate measurements and for analysis of the wipes.

g. Background readings.

h. The date that the survey instrument was last calibrated.

i. Confirm that all radioactive waste has been decayed to background radiation or has been transferred to a radioactive waste broker for disposal.

Please submit your close-out survey as additional information to mail control 317404.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at http://www.nrc.gov/reading-rm/adams.html (the Public Electronic Reading Room).

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Statement of Policy and Procedure for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

William P. Reichhold

William P. Reichhold
Materials Licensing Branch

License No. 13-32503-01
Docket No. 030-36546
Enclosure: Amendment No. 5
Decontamination Guide
10 CFR Part 30.36 (j)(2)(i)