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October 2, 2012

Ms. Patricia Pelke
Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

RE: Materials License 21-11315-02
Request for license amendment for an additional radioisotope possession limit.

Dear Ms. Pelke,

MPI Research is requesting an amendment to Materials License 21-11315-02 to add a possession limit for one additional radioisotope with atomic number greater than 83. This will support a radiopharmaceutical study involving testing of an α -particle radioimmunotherapy compound in mice.

The additional radioisotope requested is thorium-227, and the requested possession limit is 50 millicuries. MPI Research is already authorized to possess 50 millicuries of radium-223, the decay product of thorium-227. MPI Research plans to dispose of study materials using decay in storage as specified in the license, since the half-lives of thorium-227 and all decay products are much less than 120 days.

Please contact me at 269-668-3336 extension 2050, if there are any questions, or if further information is required.

Best regards,

Richard Granberg
Radiation Safety Officer
MPI Research, Inc

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MPI
RESEARCH

54943 North Main Street
Mattawan, Michigan 49071 USA

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