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

November 16, 2007

Docket No. 03031929 License No. 37-28581-01

Roy C. Levitt, M.D.
President and Chief Executive Officer
Genaera Corporation
5110 Campus Drive
Plymouth Meeting, PA 19462

SUBJECT: INSPECTION 03031929/2007001, GENAERA CORPORATION

Dear Dr. Levitt:

This letter forwards NRC Form 591, "Safety Inspection," indicating that no items of non-compliance were found during the above described inspection of your licensed activities. Please retain the form in your files. No acknowledgment of this letter is required. However, should you have any questions, we shall be pleased to discuss them with you.

Current NRC regulations are included on the NRC's website at www.nrc.gov ; select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material;** then **Regulations, Guidance, and Communications Page.** The current Enforcement Policy is included on the NRC's website at www.nrc.gov ; select **About NRC, How We Regulate; Enforcement;** then **Enforcement Policy.** You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

Please contact me at 610-337-5399 if you have any questions regarding this matter.

Sincerely,

Original signed by Stephen Hammann

Stephen Hammann
Health Physicist
Commercial and R&D Branch
Division of Nuclear Materials Safety

Enclosure:
NRC Form 591

cc:
Michael McLane, Ph.D., Radiation Safety Officer

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NRC Form 591

cc:
Michael McLane, Ph.D., Radiation Safety Officer

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