Drexel Universit Philadelphia, Pennsylvania 19104



June 27, 1988



College of Science Office of the Dean (215) 895-2620

> United States Nuclear Regulatory Commission Region I 631 Park Avenue King of Prussia, Pa. 19406 (Lic

(License #37-04594-11)

Attention of: Steven Courtemanche

College of Business and Administration

College of Humanities on

Dear Mr. Courtemanche:

Since our letter of June 10th regarding an amendment of our license to permit possession of Polonium 208 and 209, you determined that these two isotopes are accelerator produce. Therefore, I wish to revise our request to permit possession of Polonium 210. The detailed description of utilization of this isotope is:

"The laboratory for atmospheric research at the Department of Chemistry of Drexel University is currently involved in the development of analytical methodology for Rn-222 and its long progeny Pb-210 and Po-210 analyses. In this connection, radioisotopes Po-208 and Po-209 are utilized for overall efficiency evaluations in Po-210 and Pb-210 concentration measurements in atmospheric specimens. Tenth of a microcurie quantities of these radioisotopes are diluted one hundred times and samples are spiked with a few microliters of these radioisotopes prior to plating onto a pure silver disc ready for alpha-particle spectrometry."

Sincerely yours,

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J. William A. Burley, Ph.D. Director, Radiation Safety

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Drexel University Philadelphia, Pennsylvania 19104

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College of Science Office of the Dean (215) 895-2620 June 10, 1988

United States Nuclear Regulatory Commission Region I 631 Park Avenue King of Prussia, Pa. 19406

(License #37-04594-11)

Dear Sirs:

We request an amendment to our current license to possess a total of 0.5 microcuries of the isotopes Polonium 208 and Polonium 209 for calibration purposes. The detailed description of utilization of these isotopes is described below:

"The laboratory for atmospheric research at the Department of Chemistry of Drexel University is currently involved in the development of analytical methodology for Rn-222 and its long progeny Pb-210 and Po-210 analyses. In this connection, radioisotopes Po-208 and Po-209 are utilized for overall efficiency evaluations in Po-210 and Pb-210 concentration measurements in atmospheric specimens. Tenth of a microcurie quantities of these radioisotopes are diluted one hundred times and samples are spiked with a few microliters of these radioisotopes prior to plating onto a pure silver disc ready for alpha-particle spectrometry."

Sincerely yours,

William A. Burley, Ph.D. Director, Radiation Safety

JWAB/emb

BBB TRN 1 & LN 1: 28



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College of Business and Administration

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