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<u>Re: Radiologigal Incident related to former Smith Kline Beecham</u> <u>building located on Spring Garden Street, Philadelphia, Pennsylvania,</u> <u>between 16th and 17th Streets.</u>

September 1 and 5, 2000

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<u>Re:</u> Radiologigal Incident related to former Smith Kline Beecham building located on Spring Garden Street, Philadelphia, Pennsylvania, between 16th and 17th Streets.

September 1 and 5, 2000

LVI Environmental Services, Inc. 425 Creamery Way Suite A Exton, PA 19341 610.594.5511 phildelphia@lviservices.com

<u>Re: Radiologigal Incident related to former Smith Kline Beecham</u> <u>building located on Spring Garden Street, Philadelphia, Pennsylvania,</u> <u>between 16th and 17th Streets.</u>

September 1 and 5, 2000

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Late on August 31, 2000 the Bureau of Radiation Protection, Southeast Office, was notified of a load of scrap metal that was rejected by a recycling facility because a radiation monitor measured levels of radiation above alarm levels. The scrap was returned to its place of origin, 17th Street and Spring Garden Street, Philadelphia, Pennsylvania. The building was undergoing demolition for renovation. The building was formerly occupied by Smith Kline Beecham and was used for office and research. The research included the use of several radioactive materials.

On Friday, September 1, the trailer containing the radioactive material was surveyed by DEP and some radioactive hot spots were noted. Some material was removed from the trailer. A spectrum was acquired and analyzed. Radium 226 was identified. Several hot spots were noted throughout the load.

When the scrap was rejected the construction company acquired the services of a consultant, Teledyne Brown Engineering Environmental Services from Westwood, New Jersey. The consultant arrived on the morning of September 1 and assisted in the survey.

A survey of the building where the scrap had come from was requested. DEP and Teledyne personnel surveyed the basement and some other parts. A few glass pipes were found which contained a residue. Teledyne measured small amounts of beta radiation from the material. This was the only area of the basement surveyed where radiation levels were above background. The beta did not represent an external exposure issue since the material was still in the pipe. Tests performed by Teledyne indicated the presence of removable contamination in the pipes of Carbon 14 and Hydrogen 3. The levels were below the levels specified by the Nuclear Regulatory Commission for release. More information is available from Teledyne. The facility had been released by the Nuclear Regulatory Commission for unrestricted use.

Meanwhile the issue of the presence of Radium continued. Since a discrete source had not been identified the possibility of uptake was a concern. The company agreed to have Teledyne conduct urine tests for employees. Later this issue of uptake was not regarded as likely, but the tests were performed for those interested in doing so.

During the afternoon DEP continued to survey the scrap (which was outside). A wall clock with green paint was found in the rubble. The numbers and hands of the clock were painted with a paint containing Radium 226. An Exploranium GR-130 survey/gamma spectrum instrument was used to acquire a spectrum. The spectrum indicated Radium 226. The crystal of the clock was not present and some of the numbers had been scratched. Small flecks of paint were found in some of the scrap. These small flecks account for the radiation levels found in other parts of the load. Teledyne will further check the scrap and arrange for proper disposal of any radioactive materials

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found. Exposure rates at the surface of the clock hand were 2.65 millirem per hour as measured with the Exploranium GR-130 meter. The exposure rate is compensated for the energy of the photons.

DEP and Teledyne recommended that the building be checked for clocks, smoke detectors, and other items which may have general license radioactive material. One additional clock with radium paint was found in a room previously used for audio visual activities, possibly production. Several other clocks were found which were similar in appearance but which did not contain radium.

A number of smoke detectors were found, all with Americium 241 sources of nominal 80 microcuries activity. The builder will attempt to contact the manufacturer for possible return. Otherwise Teledyne will arrange for proper disposal.

During the day of September 5, Teledyne personnel surveyed other parts of the building. No other radiation sources were found. Please see their report for further information.

A meeting was held at 3:00 PM on September 5 with the workers, owner, and persons listed on accompanying sheet, where Teledyne and DEP, and the U.S. Nuclear Regulatory Commission presented their findings. Radiolgical concerns have been addressed. No levels of radiation above background are known to exist in the building. The contractor also provided supplementary safety information and instructions for employees.

Submitted:

Michael R. Cosgrove, Radiation Health Physicist, DEP Michelle Dyarman, Radiation Health Physicist, DEP