

From: "Patrick McDermott" <mcdermot@rehs.rutgers.edu>
To: <rcr1@nrc.gov>
Date: 2/27/04 3:54PM
Subject: JB Smith Hall Additional Information

Randy,
As requested. Perhaps more quantitative than you asked for, but I think this should do. We like having numbers for the file.

In performing the gamma survey in JB Smith Hall on 2/24/2004, no deviations above background were noted in the walk-through of the potentially affected areas. In addition to the qualitative walk-through, 102 quantitative measurements were recorded on a Ludlum model 19 micro-R meter and a Victoreen model 450P ion chamber for a total of 204 data points.

The instruments were held at a constant height of 1 meter from the floor of the facility and measurements from both instruments were taken simultaneously.

Of the 102 locations 64 were taken in reference background or non impacted areas (R areas) and the remaining 38 were taken in survey units or impacted areas (S areas).

A Students T test comparing the data from each instrument indicated that the data were not statistically different at a 95% confidence level. This was true whether the T test was conducted on all R + S data combined or R data and S data separately.

The mean uR/hr measurement of the reference areas from the Ludlum and Victoreen were 11 and 10 respectively.

The mean uR/hr measurement of the survey unit areas from the Ludlum and Victoreen were 9 and 9 respectively.

The survey concludes that the radiation levels of the survey units or impacted areas are indistinguishable from reference area or background areas.

The approximate "footprint" of the JB Smith building is 26,670 square feet.

I hope this addresses your concerns. Thank you again for expediting this matter and do not hesitate to contact me if you have further questions. Remember, if I happen to not be in the office if/when you call, feel free to ask for Mary Aldrich.

Regards,

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