



Oak Ridge
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Manpower Education,
Research, and Training
Division

March 11, 1986

Mr. Jerry Roth
Region I
Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Subject: ADDITIONAL SAMPLING AT THE FORMER GULF-UNITED NUCLEAR CORPORATION
SITE, PAWLING, N.Y.

Dear Mr. Roth:

On February 28, 1986, personnel of Oak Ridge Associated Universities Radiological Site Assessment Program (ORAU/RSAP) continued cleanup efforts (initiated on February 26, 1985) of a small general area (16 ft^2) of Cs-137 contamination located in the northeast portion of the Waste Disposal Building at the former Gulf-United Nuclear Corporation site near Pawling, New York (Figure 1).

Gamma scanning, using NaI(Tl) scintillation detectors, indicated surface contact levels, prior to cleanup, ranging from 45 to $240 \mu\text{R/h}$. Elevated beta-gamma readings were also obtained. Exposure rates of $16 \mu\text{R/h}$ were recorded at 1 m above the surface.

Coring operations removed an additional 3 ft^3 of concrete and 6 ft^3 of soil. Contact exposure rates were significantly reduced; however, elevated activity still remains, especially on a small concrete strip located under a metal support (contact levels of $120 \mu\text{R/h}$ were recorded). This area could not be accessed for cleanup purposes. Exposure rates at 1 m above the surface were reduced to $13 \mu\text{R/h}$. Elevated contact exposure rates ($45 \mu\text{R/h}$) were also noted on the western portion of the contaminated concrete slab. This area covers approximately $0.5 \text{ ft} \times 2 \text{ ft}$. Exposure rates in this area may be due, however, to the isolated location of elevated activity noted above.

One additional location of elevated radiation levels ($230 \mu\text{R/h}$) was identified in the extreme northeast corner of the building. Concrete chip fragments were removed, reducing contact exposure rates to $16 \mu\text{R/h}$.

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Mr. Jerry Roth

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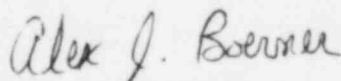
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All concrete debris and removed soil was returned to Oak Ridge, Tennessee for analysis.

It should be noted that because of limited site information and lack of proper equipment and time to finish the survey, ORAU was unable to complete cleanup to background levels.

Comments concerning these findings may be addressed to me or Mr. James Berger at FTS 626-3305.

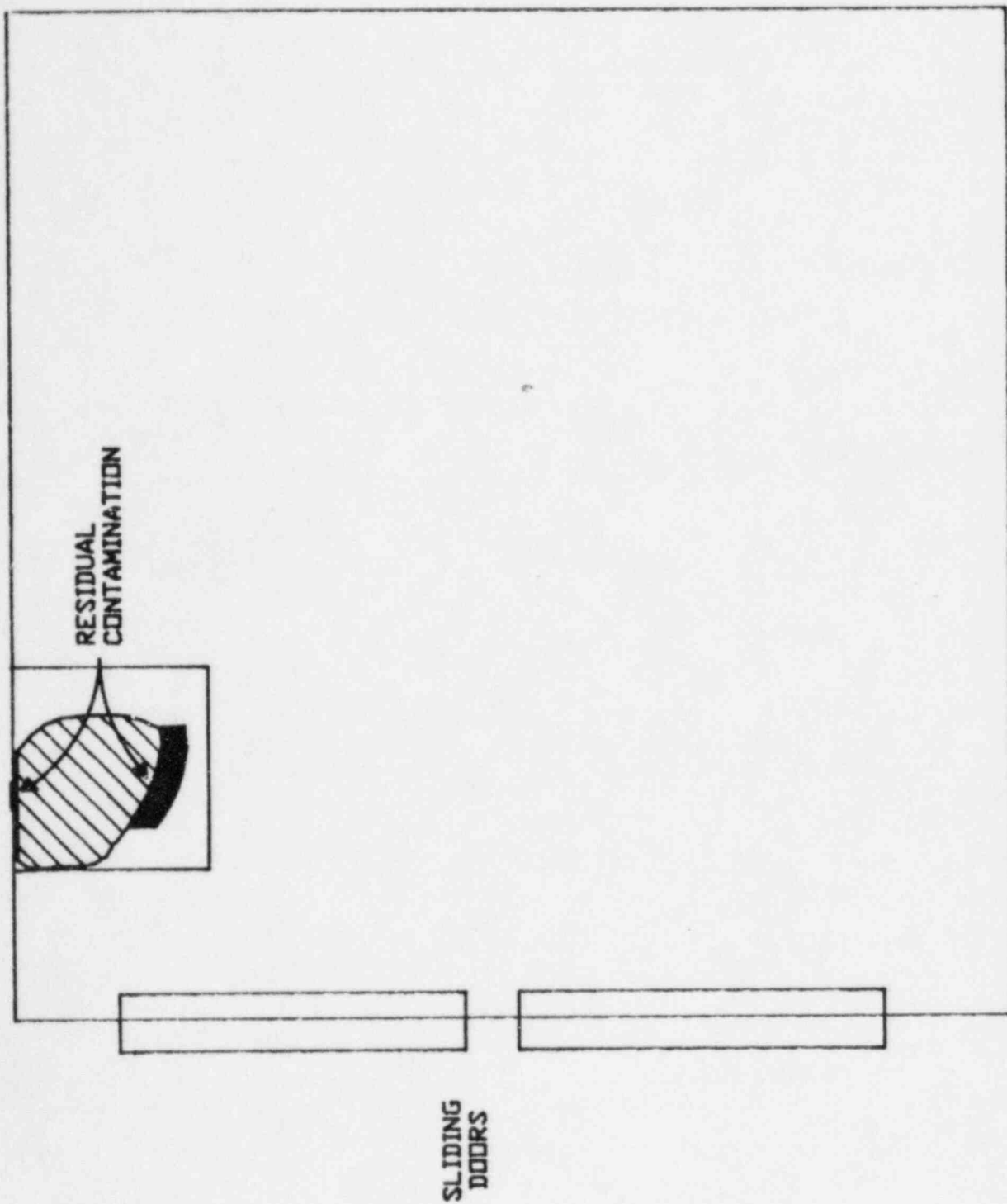
Sincerely,

A handwritten signature in cursive script that reads "Alex J. Boerner".

Alex J. Boerner
Team Leader
Radiological Site Assessment Program

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CONTAMINATED
AREA REMOVED

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FIGURE 1: Layout of Waste Disposal Building