

APR 29 1991

License No. SMB-1527  
Docket No. 040-08976  
Control No. 112591

Westinghouse Electric Corporation  
ATTN: C. W. Bickerstaff, Manager  
Industrial Hygiene and Materials  
Transportation  
Westinghouse Building  
Gateway Center  
Pittsburgh, Pennsylvania 15222

Dear Mr. Bickerstaff:

Subject: Status of Bloomsburg, New Jersey Facility

During the week of March 11-16, 1991, Oak Ridge Associated Universities (ORAU) personnel performed confirmatory surveys of Buildings 1 through 6 of the Westinghouse facility at One Westinghouse Plaza, Bloomfield, New Jersey. The confirmatory survey was to examine representative fractions of both remediated and non-remediated areas inside the buildings and the outside perimeter of the site to determine whether your survey dated May 1990 accurately reflects the condition of the facility. M. Roberts, of my staff, and I met with you on March 11, 1991 and Mr. Roberts returned to the site on March 14 and 15 to meet with Lee Booth of Canberra/RMC, your radiological subcontractor, and Wade Adams, the ORAU project manager.

Recognizing your desire to complete this project as quickly as possible we are providing the following comments and questions in advance of the availability of the final ORAU report. You will receive a formal, written report of ORAU's results as soon as it is available.

Based on the preliminary survey results, ORAU found residual radioactivity in both remediated and non-remediated areas that will require additional measurements to fully quantify the radioactivity present and may also require remediation. The specific areas where activity was measured were pointed out to individuals from SEG, your remediation contractor, as the measurements were made. Locations identified include a hallway in Building 3, first floor; an area on the third floor of Building 3; three small areas in Building 6; the loading dock between Buildings 3, 4, and 5; numerous areas in the Moly Ribbon Room, Building 3, second floor; and a small area outside in the area adjacent to the reservoir. Please provide the results of your confirmatory measurements, and, where necessary, the extent of additional remediation performed and the results of your surveys following remediation.

It appears the survey performed by ORAU identified areas where residual radioactivity remains in excess of decontamination criteria which were not identified in your survey. Since the ORAU survey only covered a portion of the facility and of the remediated areas, please discuss why these areas were not identified in your survey and whether there are other such areas which have not yet been identified. Also discuss whether there is adequate assurance that survey data in areas which our contractor did not sample accurately reflect the condition of the facility.

Other information which would assist in our review:

1. Estimate the quantity of radioactive material and radioactive waste generated by decontamination (in cubic feet and millicuries). Do not expend significant effort on this item. A brief summary of waste shipments is acceptable.
2. Do you have or expect any mixed waste as a result of the decontamination? If yes, how will you handle this waste?
3. Briefly discuss groundwater under and around the site. What opportunities have there been for contamination of the groundwater (e.g. contaminated pipes, drains and soil) with uranium and/or thorium? Has any sampling or monitoring of groundwater been performed? Is sampling necessary?
4. It appears that uranium contamination from operations in the 1940's and 50's is or was widely distributed in some areas of the facility. Please discuss this process with regard to the possibility that contaminated "tails" or residues exist at locations near, but not on, your property. Since this was apparently a process to extract uranium from ore, what happened to the residues?
5. Please briefly justify the MDA quoted for the instruments used in your survey dated May 1990.

Please contact Mark Roberts or me, should you need any additional information. Your cooperation in this matter is appreciated.

Sincerely,

**Original Signed By:**

*John D. Kinneman*

John D. Kinneman, Chief  
Nuclear Materials Safety Section B  
Division of Radiation Safety  
and Safeguards

cc:

B.M. Bowman, Westinghouse Electric Corporation  
L. Booth, Canberra, Nuclear Services Division

Westinghouse Electric Corporation

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bcc:  
Region I Docket Room (w/concurrences)

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M. Roberts/bj/cmm  
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