

Westinghouse Electric Corporation

Consumer Products



Lamp Division

One Westinghouse Plaza
Bloomfield New Jersey 07003

April 5, 1977

40.2286

Mr. Paul R. Nelson, Chief
Fuel Facility & Material Safety Branch
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. Nelson:

The deficiencies in our compliance with Nuclear Regulatory Commission Regulations relating to airborne concentration surveys as noted in your letter of March 21, 1977 will be corrected as follows:

1. Beginning April, 1977 personnel air samples and smears will be made and evaluated on a monthly basis in the restricted areas, whether or not thoriated material is processed.
2. Beginning April, 1977 monthly air samples will be taken at the discharge of the exhaust systems servicing equipment processing thoriated materials, whether or not thoriated material is processed. The evaluations of the monthly surveys will be used to determine the average annual concentrations from all exhaust stacks.

Enclosed is a copy of the survey instructions issued to the section supervisors.

Very truly yours,

L. B. Margraff
L. B. Margraff, Manager
Purchasing

/bg
Att.

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REG1 LIC40
SMB-0353 PDR

1. Take monthly air and smear samples - whether or not thorium or thoriated material is handled.

Tungsten Section

Air Samples - Sampling pump to be worn for entire shift, during doping, if performed; if not, during processing of thoriated material. So that exposure on all shifts is measured, personnel sampling to be rotated on all shifts.

Smears - As shown on Drawing A-231CS-23 - Furnace floor at thoriated blender, floor at PK Blender, both ends of roasting furnace, table and floor at crusher, feed end of reduction furnace and boat loading table, sieve and boat unloading table.

Phosphor Section

Air Sample - Sampling pump to be worn for entire shift.

Smears - As per Drawing 231CR9 -

- a. Floor between sun tan and getter furnaces
- b. Floor between sun tan and #18 furnace
- c. Top of storage cabinet near discharge end of #18 furnace
- d. Floor at feed end of #18
- e. Work bench
- f. Vacuum oven
- g. Table with scale
- h. Sink counter
- i. Large Scale
- j. Sink counter (left or rollers)

At three-month intervals, velometer measurements are to be made at each exhaust hood to determine that a minimum velocity of 150 feet per minute is maintained. A record of these measurements shall be made and filed with evaluation reports of air and smear samples. A copy shall be sent to the Safety Office.

2. Roof Air Samples - 24 hour samples must be made monthly even though no thorium or thoriated products are handled. At least one sample per month to be taken during period of no activity so this exposure can be combined with activity samples to determine yearly average.

Tungsten Section

At the discharge of each exhaust system of equipment processing thoriated material.

Phosphor Section

At the discharge of each exhaust system of equipment processing thoriated material.