



GA Technologies

In Reply
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20 June 1985

70-734
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return
to
39655

Dr. William T. Crow
U.S. Nuclear Regulatory Commission
Office of Nuclear Material Safety & Safeguards
Washington, D.C. 20555

Subject: Docket 70-734: SNM-696; Wipe and Meter Survey of Fuel
Fabrication Facility, Building 37.

Dear Dr. Crow:

Attached is a Wipe and Meter Survey of Fuel Fabrication Facility,
Building 37.

If there are any questions, please contact F. O. Bold, (619) 455-2020.

Very truly yours,

J. J. Hatch for
William R. Mowry
Licensing Administrator

WRM:hc

Attachment:
Wipe and Meter Survey of Fuel
Fabrication Facility, Building 37.

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A wipe and meter survey was recently completed in the HTGR Fuel Manufacturing Production areas to determine external dose rates and the tactile alpha contamination level of floor areas.

Dose rate measurements were made using an Eberline RO-2 (33570). If a general area dose rate exceeded 0.2 mR/hr, a "high" dose rate was determined. Dose rate measurements are listed in Attachment I. Dose rate measurements were not made in the west or south vaults.

Wipe samples were collected on Whatman 41 filter paper of 1 ft² areas. The samples were submitted to the Health Physics Lab for analysis and the results were reported in dpm/100 cm². Attachment II shows the average surface contamination in the various areas with the high sample result also listed.

Attachment I

Dose Rate Measurements

	<u>Gen. Area</u>	<u>High</u>
Thorium Room Top	1.2 mR/hr	10 mR/hr
South High Bay	<0.2	--
Old Coater	<0.2	--
North High Bay	<0.2	--
Dry Coater	0.2	2.2
Scrap Processing	<0.2	--
Dry Scrap	0.2	1.2
Fissile Beds	5	25
Fertile Beds	4	12
Fertile Bed Vacuum Pump	10	85
VSM 6	<0.2	--
North Mezz.	<0.2	--
South Mezz.	<0.2	.2
Fissile Mix Line	<0.2	--

Attachment II

Average Surface Contamination (Alpha Activity) with High Sample Result

	<u>dpm/100 cm2</u>	
	<u>High Wipe</u>	<u>Average</u>
Fertile Mix Line	61	29
South High Bay	37	17
VSM 10-11	80	36
Old Coater	36	25
Old Coater Mezz.	17	9
North High Bay	17	12
Scrap Processing	28	19
Dry Coater	71	54
Dry Scrap	78	43
Fissile Beds	108	41
HCL	66	31
VSM-6	27	21
North Mezz.	42	21
South Mezz.	29	7
Fissile Mix Line	230	72
Carbonization Furnace	14	9
Desma Press Area	29	11
Carbonization Furnace & Final Heat Treat	45	7
Vault Office & West Vault	16	6
Men's & Women's Change Room (Hot Side)	10	3
Decon Room	43.	12

Total wipes taken in these areas - 225