

PNL-10343-  
DEL

REPOSITORY PNL  
 COLLECTION Ringold Study  
 BOX No. N/A  
 FOLDER N/A

February 4, 1963

**DELETED**

Mesa, Washington

Dear DELETED :

Attached are the reports of the Hanford Whole Body Counter examinations for you, DELETED, DELETED and DELETED. As we discussed, these results are not significantly different than others we have seen and are reassuring to us in terms of Hanford operations. Not included in the report is an interpretation of the results of radioassay of your urine specimens. The results thus far tell substantially the same sort of story as your whole body examinations. Unless there is something of significance in the results yet to come in, I do not plan on making a separate report of those results.

I want you folks to know that I really appreciate your help in this program, both through your examination and in the encouraging of others to participate. I also thank you for the beef you gave our monitors. The meat, milk, produce, and pasture grass is also important to our environmental protection program.

I am also enclosing a copy of an aerial photograph of your area which I thought you might find interesting.

Sincerely,

**BEST COPY AVAILABLE**Senior Engineer  
Internal Dosimetry  
RADIATION PROTECTION

IC Nelson:hi

Attachments

bcc: RF Foster  
 AR Keene  
 IC Nelson-File  
 F Swanberg, Jr.  
 VBC-File

1155348

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HANFORD WHOLE BODY COUNTER EXAMINATION

This is the report of your recent examination in the Hanford Whole Body Counter on 12-1-62. The information is provided for your personal information. We hope you found the examination in the Whole Body Counter interesting and pleasant.

As explained in the brochure, while the Counter is an extremely sensitive device, it does not detect the presence of every radionuclide which could be in your body. The radionuclides listed are those which were detected. Column 1 lists the name of each radionuclide which was detected. Column 2 lists the quantity of the radionuclide detected expressed as a percent of that quantity recommended by the National Committee on Radiation Protection and Measurements (NCRP) as permissible for individuals in the population at large.

The NCRP is composed of over one hundred persons recognized as expert in some technical aspect of radiation protection. Included are scientists from universities, industry and governmental agencies. The NCRP functions under sponsorship of the National Bureau of Standards (NBS) which issues the recommendations of the NCRP as NBS handbooks. These handbooks are available to the public through the Superintendent of Documents, Washington 25, D. C. Copies of NCRP recommendations are also available for reference at the Hanford Whole Body Counter.

RESULTS

<u>Column 1</u>	<u>Column 2</u>
Potassium-40	Naturally occurring - no limit specified
Rinc-65	1.5%
Cesium-137	0.2%
Iodine-131	0.5%

The actual quantity of radioactive material in a human body is expected to vary, even from day to day. It depends on a number of factors, including dietary habits of the individual, where he has lived, his age, his weight, the extent of fallout from atmospheric nuclear weapons testing, as well as the characteristics of the radionuclide itself.

Radiation Protection Operation  
General Electric Company  
Richland, Washington

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RESULTS

<u>Column 1</u>	<u>Column 2</u>
Potassium-40	Naturally occurring - no limit specified
Zinc-65	1.5%
Cesium-137	0.2%
Iodine-131	0.8%

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Richland, Washington

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HANFORD WHOLE BODY COUNTER EXAMINATION

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RESULTS

<u>Column 1</u>	<u>Column 2</u>
Potassium-40	Naturally occurring - no limit specified
Zinc-65	0.3%
Cesium-137	0.1%

The actual quantity of radioactive material in a human body is expected to vary, even from day to day. It depends on a number of factors, including dietary habits of the individual, where he has lived, his age, his weight, the extent of fallout from atmospheric nuclear weapons testing, as well as the characteristics of the radionuclide itself.

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RESULTS

<u>Column 1</u>	<u>Column 2</u>
Potassium-40	Naturally occurring - no limit specified
Zinc-65	0.6%
Cesium-137	0.05%
Iodine-131	1.5%

The actual quantity of radioactive material in a human body is expected to vary, even from day to day. It depends on a number of factors, including dietary habits of the individual, where he has lived, his age, his weight, the extent of fallout from atmospheric nuclear weapons testing, as well as the characteristics of the radionuclide itself.

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RESULTS

<u>Column 1</u>	<u>Column 2</u>
Potassium-40	Naturally occurring - no limit specified
Zinc-65	0.5%
Cesium-137	0.05%
Iodine-131	0.9%

The actual quantity of radioactive material in a human body is expected to vary, even from day to day. It depends on a number of factors, including dietary habits of the individual, where he has lived, his age, his weight, the extent of fallout from atmospheric nuclear weapons testing, as well as the characteristics of the radionuclide itself.

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RESULTS

<u>Column 1</u>	<u>Column 2</u>
Potassium-40	Naturally occurring - no limit specified
Zinc-65	1%
Cesium-137	0.07%
Iodine-131	2.7%

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RESULTS

<u>Column 1</u>	<u>Column 2</u>
Potassium-40	Naturally occurring - no limit specified
Zinc-65	0.2%
Cesium-137	0.03%
Iodine-131	1.6%

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