

CGIRD-ND-HP

20 February 1962

SUBJECT: Samples For Urinalysis

TO: Region I Compliance Division
U S Atomic Energy Commission
ATTN: Mr. Peter J. Knapp
376 Hudson Street
New York 14, New York

ARMJ2 941209 161b

1. Enclosed are urine samples for tritium analysis. The volume you receive represents one half of a 24 hour sample. The total 24 hour volume will be listed along with other pertinent information.

2. The remaining balance of these samples is being run in the labs here at ACC with the overall objective being verification of our method. The method being used is as follows:

- a. Two ml of the sample are reacted with calcium metal at room temperature.
- b. The hydrogen gas liberated by this reaction is collected in an evacuated container.
- c. This gaseous sample is then counted on a Nuclear Chicago Dynacore Electrometer. The device was calibrated with a 0.2 μCi H_2^{3}O sample.

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3. Sample Data: (If H³ is present it will be as a free gas; as from a tritium airconium target.)

NAME	SAMPLE NO.	TOTAL 24 HR. VOL.	COLLECTION DATES
John Goshorn	HPO/AEC I	1080 ml	10 - 11 Feb
2/Lt David Thomas	HPO/AEC II	965 ml	9 - 10 "
" " "	HPO/AEC III	1255 ml	12 - 13 "
" " "	HPO/AEC IV	1170 ml	13 - 14 "
John Goshorn	HPO/AEC V	960 ml	14 - 15 "

FOR THE COMMANDER:

EARL G. WRIGHT
Chief, Health Physics Office

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