

PNL-9691

712546

October 31, 1962

REPOSITORY PNL

COLLECTION I-131 Atmosphere

BOX No. IC Nelson

FOLDER N/A

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MONTHLY REPORT
OCTOBER, 1962

1. Participation in the I-131 studies program was continued. Summary information relative to this program was provided to interested persons.
2. The feasibility of having a television receiver in the Whole Body counting cell during the examination of children was tested. Feasibility was established for I-131 examinations by the almost rigid posture assumed by the children and an increase of about 5% in the apparent background counting rate for I-131. The use of the TV is not feasible for low level counting with the Whole Body Counter due to the presence of relatively large amounts of K^{40} . Channel by channel analysis of the data for the whole body counter is not completed.
3. The program of examination of children for I-131 in their thyroids was continued. In October, 11 examinations were conducted for 8 children. Most of these examinations were made on October 27. The results varied from 54 to 97 pc I-131.

The examination results for one six year old girl who is examined weekly varied from 54 to 74 pc I-131. The daily intake of milk is being established for this child. The I-131 content of the milk consumed is determined on a weekly frequency.

4. A new form to be used as a work sheet and as an aid to a more orderly conduct of plutonium wound examinations was developed and placed in use.
5. The job of making the tritium EDFM program operational was undertaken. Information obtained to date suggest that replacement of paper tape input with punch card input is necessary to circumvent inaccuracies in data preparation. Annual tritium exposure data can be placed in the Exposure Master file without the present H^3 program being operational.
6. A minor amount of study relative to plutonium in man was completed.

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