

Collection

DBM

Box

3381

Folder

5

Dr. S. Allan Lough, Ass't Dir. for
Radiological Physics, DBM

September 4, 1962

Joshua Z. Holland, Chief, Fallout Studies Branch
DBM

OUTLINE OF I-131 RESEARCH PROGRAM

BEST COPY AVAILABLE

Per your requested, I have recorded my impression of the requirements for subject research program in the attached draft. In capsule form, what is proposed can be condensed to the following:

1. Objectives:

- a. Immediate: To check the validity of extrapolations which have been made of milk I-131 levels from gummed film and other types of fallout data.
- b. Secondary or long-term: to develop an improved scientific basis for making such estimates.

2. Outline of Program

- a. Study of existing monitoring data from neighborhood of NTS, Hanford, Savannah River, NRTS, and Windscale. Cost: few man-months. Promise: good.
- b. Field experiment using fixed arrays of sampling stations and depending upon world-wide fallout. Cost: 1/2 to 1 million dollars and about 6 to 18 months. Promise: fair if atmospheric tests continue, negligible if tests stop.
- c. Mobile field studies at NTS. Cost: \$50,000 to \$300,000 and 6 to 18 months. Promise: excellent if atmospheric tests occur at NTS, zero otherwise.
- d. Controlled experiments in laboratory or experiment station, especially on passage of I-131 from vegetation-to-milk and milk-to-man. Cost: \$200,000 to \$300,000 and 1-2 yrs. Promise: poor to fair in relation to I-131 problem as a whole.

1154393

OFFICE ▶					
SURNAME ▶			MEDICINE, HEALTH & SAFETY	- 3 - 1	Outline 131
DATE ▶					

Dr. Lough

- 2 -

September 4, 1962

3. Program supervision

Must be assigned to person of unquestionable competence with adequate staff.

4. Scientific design and evaluation

Should draw on best scientific resources available in the field of environmental radiiodine studies plus competent statistical assistance.

1154394

DOE ARCHIVES

OFFICE ▶	FSB <i>PA</i>					
SURNAME ▶	Holland:gb					
DATE ▶	9-4-62					