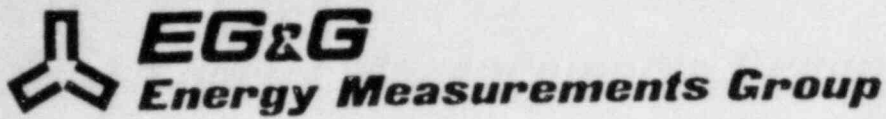


January 17, 1979



SUMMARY REPORT

AERIAL RADIOLOGICAL SURVEY

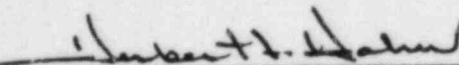
DAWSON FOREST WILDLIFE MANAGEMENT AREA

DAWSON COUNTY, GEORGIA

DATE OF SURVEY: JUNE 1978

APPROVED FOR DISTRIBUTION:


Richard H. Beers, EG&G, Inc.


Herbert F. Hahn, Department of Energy

8506060408 841207
PDR FOIA
BREMAN84-737 PDR

PERFORMED BY EG&G, INC UNDER

CONTRACT NO. EY-76-C-08-1183

WITH THE UNITED STATES DEPARTMENT OF ENERGY

A84

An aerial radiological survey of the Dawson Forest Wildlife Management Area was conducted by EG&G, Inc. for the United States Department of Energy at the request of the United States Nuclear Regulatory Commission. Sensitive radiation detectors mounted on a helicopter were used during June 1978 to survey the area, formerly the Lockheed Radiation Effects Facility. The aerial survey was requested as a follow-up to a previous ground survey conducted by the Department of Natural Resources of the State of Georgia. The survey area is shown in Figure 1.

Five areas, shown in Figure 1, were identified by the ground survey to have radiation levels above background due to the presence of Cobalt-60 (^{60}Co). Four of the five areas were confirmed by the aerial survey. All aerial data were processed to obtain inferred exposure rates from ^{60}Co . The data were further analyzed to identify regions within the survey boundaries that contained any radioisotope not typical of the natural background in the area. Both procedures identified the same four areas as having elevated radiation levels.

The reactor area is shown in Figure 2; the other three confirmed locations are shown in Figure 3. Contour lines superimposed on the figures show regions of excess ^{60}Co radiation ranging from 1 to 45 micro-roentgens per hour ($\mu\text{R/hr}$), whereas exposure rates due to natural

background varied between 4 and 10 $\mu\text{R/hr}$ over the site. It should be noted that the detector system measures the average radiation over an area of several acres. Localized sources, therefore, will yield individual ground based readings which will exceed the values inferred from aerial data.

A fifth area identified by the ground survey, the seepage pit near the reactor, was not confirmed. Calculations based on the reported intensity and spatial extent showed that this seepage pit was not detectable by the aerial measurement system.

An additional flight, over the Etowah River, was made to determine if significant amounts of radioactive material were transported offsite by surface water runoff. The flight followed the river downstream from the site for approximately one mile. No detectable excess radiation levels were noted.

In summary, the results of the aerial survey indicate that the only detectable radioisotope not typical of natural background in the survey area is ^{60}Co . Further, significant ^{60}Co radiation is present only in those areas previously identified by the ground measurements.

OVERLAY FOR FIGURE 1

LEGEND

- Area 1: Reactor
- Area 2: Cooling Off Area
- Area 3: Hot Cell
- Area 4: Seepage Pit
- Area 5: Seepage Pit

Area 1

Area 5

Area 2

Area 3

Area 4

OVERLAY FOR FIGURE 1



Figure 1: Dawson Forest Wildlife Management Area

OVERLAY FOR FIGURE 2



CONVERSION SCALE

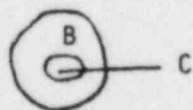
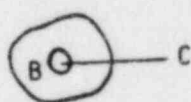
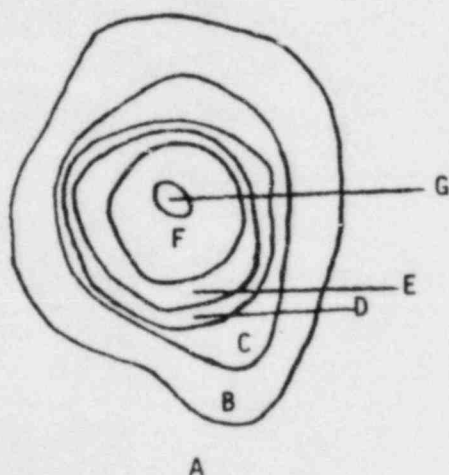
LETTER LABEL	^{60}Co EXPOSURE RATE AT 1 METER LEVEL ($\mu\text{R/hr}$)
A	< 1
B	1 - 3
C	3 - 5
D	5 - 10
E	10 - 20

OVERLAY FOR FIGURE 2



Figure 2: Reactor Area

OVERLAY FOR FIGURE 3



CONVERSION SCALE

LETTER LABEL	^{60}Co EXPOSURE RATE AT 1 METER LEVEL ($\mu\text{R/hr}$)
A	< 1
B	1 - 3
C	3 - 5
D	5 - 10
E	10 - 20
F	20 - 40
G	> 40

OVERLAY FOR FIGURE 3

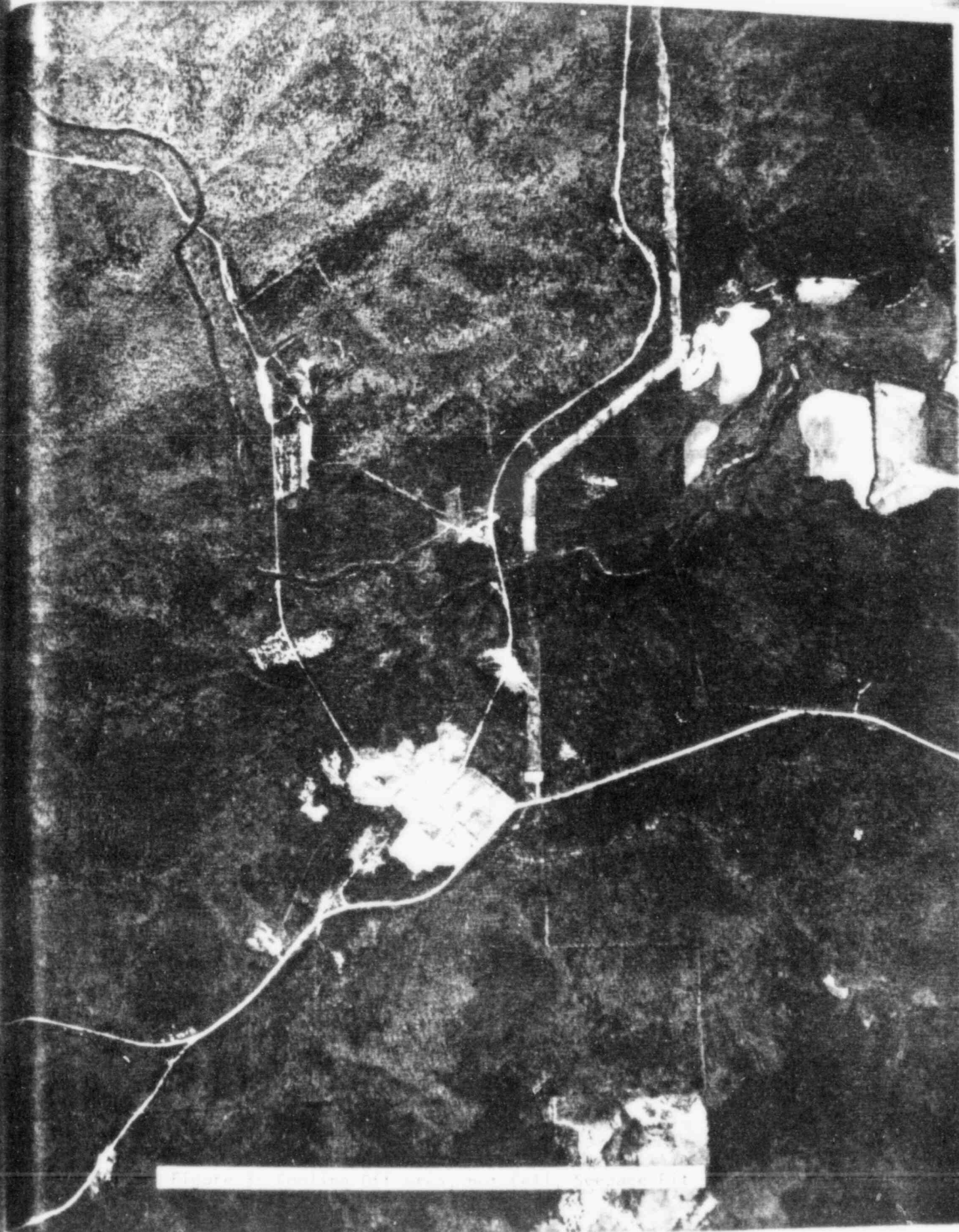


Figure 1. Aerial view of the area around the village of...

C. K. D. K.

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 EDO R/F

JUL 20 1978

The Honorable Toby Moffett
 Member, United States House of
 Representatives
 91 Lexington Street
 New Britain, Connecticut 06052

Dear Congressman Moffett:

5/20

This is in response to your request for information regarding the radiological conditions at the Dawsonville site in Georgia. We are happy to respond to your request and have provided a brief history and status of the site in the enclosure to this letter.

The Dawsonville site included a test reactor and several other buildings, one of which was a hot cell facility. The radiological concerns associated with the Dawsonville facility appear to have been caused during the use of the hot cell facility for the manufacture of cobalt-60 sources rather than from the operation of the test reactor.

Actions taken by the State appear to be adequate to protect the public from unnecessary exposure to radiation and radioactive materials.

We hope the information provided in the enclosure will satisfy your constituent's questions and concerns.

Sincerely,

(Signed) William J. Dircks

William J. Dircks
 Deputy Executive Director
 for Operations

Enclosure:
 History and Status of
 Dawsonville, Ga., facility

RETYPE IN EDO OFFICE

SEE ATTACHED YELLOW FOR CONCURRENCES

2066 035

7901020341

OCA

7/ /78

POOR ORIGINAL

OFFICE	FFRSI	RII	XOOS	DO:IE	D:IE	EDO
	LHigginbotham					
BURANE	Cunningham		ELJordan	JGDavis	EVolgenau	LVGossie
DATE						7/ /78

76-7836

Logging Date 6/27/78

NRC SECRETARIAT

TO ☐ Commissioner ☐ Date
☐ Exec. Dir./Oper. ☐ Gen. Counsel
☐ Cong. Liaison ☐ Solicitor
☐ Public Affairs ☐ Secretary
☐

Incoming: Toby Moffett, Rep.
 From: 6th District, Connecticut

To: H. H. Cantus, ERDA Date 5/30/78

Subject: Radiation leaking from nuclear reactors.
 re: one in Dawson.

X ☒ Prepare reply for signature of:

☐ Chairman
☐ Commissioner

X ☒ EDO, GC, CL, SOL, PA, SECY Date due July 6

☐ Signature block omitted
☐
☐ Return original of incoming with response

- ☐ For direct reply*
- ☐ For appropriate action
- ☐ For information
- ☐ For recommendation

NOTE: ltr. referred to NRC 2a from
 ERDA on 6/22/78 rec'd on 5/25/
 73

POOR ORIGINAL

Remarks: Cys to: OCA to Acknowledge

For the Commission: DAVIS

*Send three (3) copies of reply to Secy Mail Facility

NRC 61

2066 036

SIXTH DISTRICT CONSTITUENT FORM

5/22/78

J.K.

DATE: 78

INTAKE BY:

800 LINE

CM LINE

WALK IN

OFF. HRS.

NAME: Jo Anne Zang
ADDR: Camelot Crest Rd

CONTACTED BY:

Sandy Hook CT. 06482

TELE:

SOCIAL SECURITY #:
CLAIM/ FILE #:

CASEWORKER:

PROBLEM/REQUEST:

A Mrs. Bowman sent this in but explained that she works with Ms. Zang. According to the New York Times article attached to the form there is a radiation danger in this picnic and camping area in Georgia. The danger is coming from a deserted nuclear reactor in Dawson. What these people want to know is whose nuclear reactor is it, why is it leaking radiation, has it stopped doing the leaking, why did it take so long for them to react (one and a half years), how much danger is there in this radiation, and can it happen at all abandoned nuclear reactors. The man to contact might be the head of the State Environmental Agency, James Setzer.

8-775-2930

RECEIVED
MAY 24 1978
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WASHINGTON, D.C. 20240
FROM: Jo Anne Zang
SUBJECT: Radiation danger in Georgia
A report issued in 1978 indicated that the land the Dawson Forest Wildlife Management Area is located in was a former site of a nuclear reactor. A report issued in 1978 indicated that the land the Dawson Forest Wildlife Management Area is located in was a former site of a nuclear reactor. A report issued in 1978 indicated that the land the Dawson Forest Wildlife Management Area is located in was a former site of a nuclear reactor.

2066 031

DOOR ORIGINAL

TOBY MOFFETT
8th District, Connecticut

Executive Office
1007 LEONARD STREET, NEW BRITAIN, CONNECTICUT 06052
WASHINGTON, D.C. 20515
TELEPHONE (202) 225-4679

COMMITTEE ON INTERSTATE
AND FOREIGN COMMERCE

COMMITTEE ON
GOVERNMENT OPERATIONS

Congress of the United States
House of Representatives
Washington, D.C. 20515

DISTRICT OFFICE
100 LEONARD STREET
NEW BRITAIN, CONNECTICUT 06052
TELEPHONE (202) 225-4679
FAX (202) 225-4679
FEDERAL BUILDING
WASHINGTON, D.C. 20515
TELEPHONE (202) 225-4679
FAX (202) 225-4679
FTE: 646-5420
645-5436
646-5440

May 30, 1978

H. Hollister Cantus
Director, Office of Congressional Relations
Energy Research and Development Administration
20 Massachusetts Avenue, N.W.
Washington, D.C. 20545

Re: Jo Anne Zang
Radiation Danger in Georgia

Dear Mr. Hollister,

Please investigate the attached communication and forward to me the necessary information for reply.

Your cooperation in providing the information within two weeks of receipt of this letter will enable me to answer my constituent within a reasonable amount of time.

Kindly send your reply, in duplicate, to my district office to the attention of the staff aide whose name and address appears below.

Thank you for your attention to and assistance in this matter.

Sincerely,

Toby Moffett
Toby Moffett
Member of Congress

Kindly send reply to:
James Kase
Staff Assistant
Congressman Toby Moffett
91 Lexington St.
New Britain, Ct. 06052

2066 038

RECEIVED IR
1978 JUN -5 PM 3:44

POOR ORIGINAL

09507



Department of Energy
Washington, D.C. 20545

SECRETARIAL RECORD COPY

JUN 22 1978

Honorable Toby Moffett
Member of Congress
91 Lexington Street
New Britain, Connecticut 06052

Dear Mr. Moffett:

Reference is made to your recent referral regarding an inquiry from your constituent, Jo Anne Zang.

We have reviewed your referral and believe it relates to a program for which the following agency has responsibility:

Mr. Carlton Kammerer, Director
Office of Congressional Affairs
Nuclear Regulatory Commission
1717 H Street, N.W.
Washington, D. C. 20555

We are, by copy of this letter, referring your inquiry to that agency for appropriate action. Further inquiries of this nature should be sent to the above address.

If we can be of further assistance, please contact us.

Sincerely,

Frederick P. Hitz

Frederick P. Hitz
Director of Congressional Affairs

Enclosure:
Incoming correspondence

cc: Nuclear Regulatory Commission

2066 039

POOR ORIGINAL