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HEADQUARTERS  
AIR RESEARCH AND DEVELOPMENT COMMAND

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IN REPLY ADDRESS COMMUNICATION TO COMDR.  
ARDC, ATTENTION FOLLOWING OFFICE SYMBOL

RDTDAA

US DOE ARCHIVES
326 US ATOMIC ENERGY COMMISSION
RG _____
Collection <u>DBM Files</u>
Box <u>1194 B-1</u>
Folder <u>CASTLE - General</u>

U. S. Atomic Energy Commission  
1901 Constitution Avenue  
ATTN: Div. of Biology & Medicine  
Washington 25, D. C.

Dear Sir:

With reference to phone conversation today between Lt Col Lulejian of this Division and Dr. Dunning of your Office, the inclosed chart is forwarded. (UNCLD)

This chart represents the fall-out from the first shot of CASTLE (U) Test Operation. If ground zero of Bikini Atoll is superimposed upon the city of Washington, and if the downwind direction is northeasterly, then the 1000 roentgen infinity isodose line will cover Washington, Baltimore, Philadelphia and a part of New York City. In the event that the dose rate at time of fall-out is desired, the time of fall-out over different areas is listed below:

Washington, D. C.	1/4 to 3/4 hour
Baltimore	3/4 to 1 1/2 hours
Philadelphia	5 to 7 hours
New York City	9 to 11 hours
Boston	12 to 14 hours. (S <del>SECRET</del> )

It is assumed that the area covered by the fall-out within the 1000 roentgen infinity isodose line is approximately 6000 square miles. ~~DELF~~

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The inclosed chart superimposed on North Eastern United States will be published as Figure 4 of a report by Lt Col Lulejian of this Headquarter in the near future upon approval of Hq USAF. In the event that subject report is approved, your Office will be on the distribution list. If we can be of further service in this matter, do not hesitate to call upon us. (UNCLD)

~~SECRET~~  
~~RESTRICTED~~  
Energy Act 1946

C4-18136

CLASSIFICATION CANCELLED \*  
WITH DELETIONS  
BY AUTHORITY OF DOE/OC  
REVIEWED BY J. D. Denny 1/25/88  
DATE  
\* Lt Col DNA Vavilov To  
DOE, OC dated 10/22/87  
Carl Wilson 1/26/88

1-507

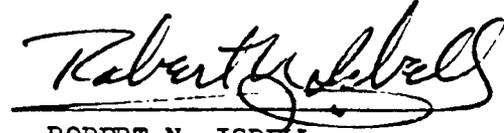
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HQ ARDC, RDTDAA, non mil ltr to USAEC

Letter classified SECRET in accordance with paragraph 23b,  
AFR 205-1.

Sincerely,



ROBERT N. ISBELL  
Colonel, USAF  
Chief, Atomic Operations Division  
Deputy Commander/Technical Operations

1 Incl:  
Chart-Castle Shot 1

~~SECRET~~  
~~RESTRICTED DATA~~  
Atomic Energy Act 1954

DOE ARCHIVES

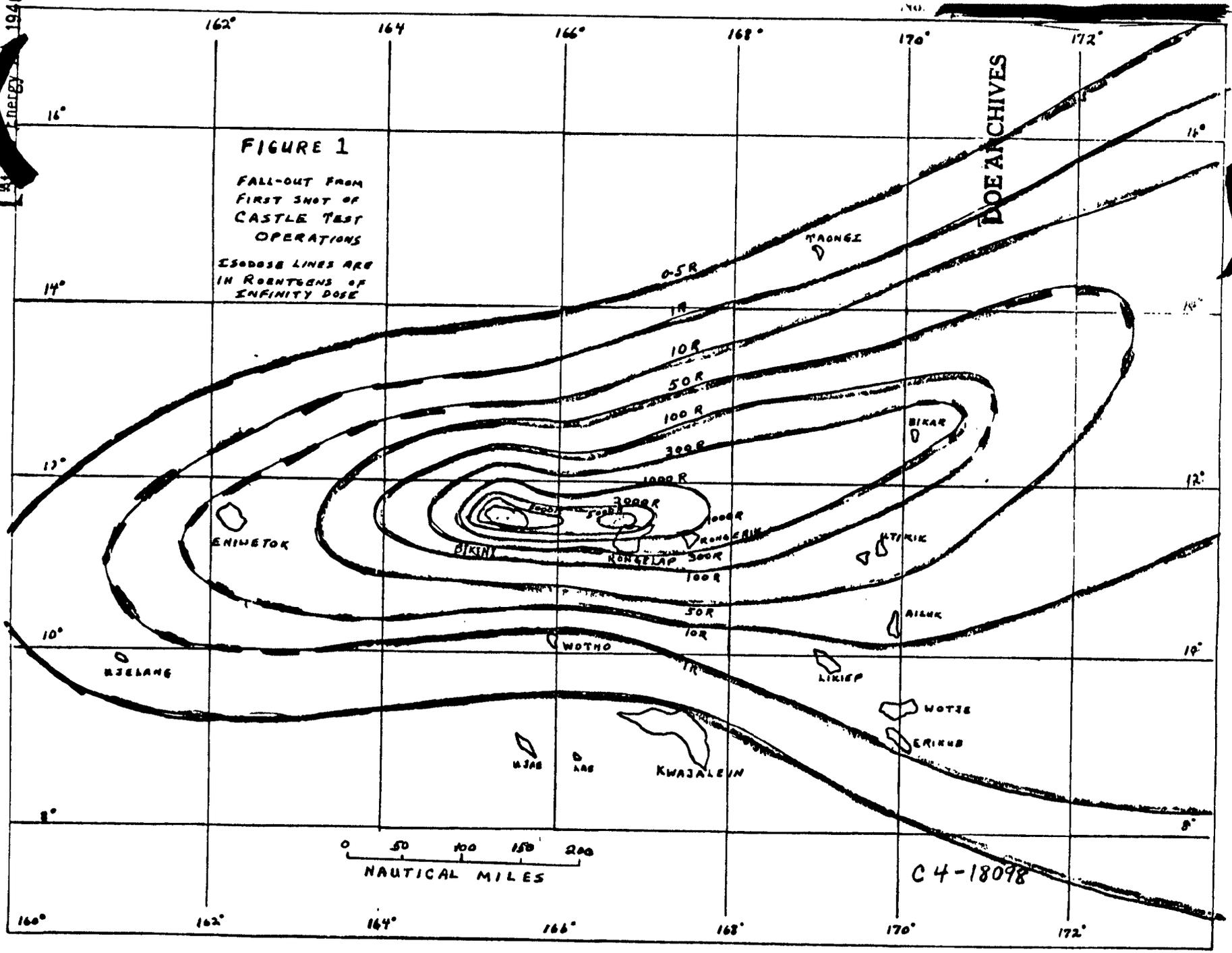
RESERVED  
Atomic Energy 1941

NO.

162° 164° 166° 168° 170° 172°

16° 14° 12° 10° 8°

**FIGURE 1**  
FALL-OUT FROM  
FIRST SHOT OF  
CASTLE TEST  
OPERATIONS  
ISODOSE LINES ARE  
IN ROENTGENS OF  
INFINITY DOSE



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C4-18098