

~~CONFIDENTIAL~~

P. O. BOX 1663  
SANTA FE, NEW MEXICO

September 18, 1944

Columbia Serial No. 100 X L-6169

File Index No. 210.433 A

Dr. H. C. Urey  
P. O. Box 41  
Station J  
New York, New York

Dear Harold:

I am glad to send on Edward's formal request to you with my complete endorsement. It is true that the work that is being carried out for us by the Mayers of real importance and that it will be hard to get the results in time for full utilization unless their team is kept strong. I have full confidence in Edward's judgment as to the need for another man and as to his evaluation of Wilkins' ability, and I hope that you will take the steps that he requests.

With all good greetings,

*Robert*

J. R. Oppenheimer

cc: Dr. Teller

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SANTA FE, NEW MEXICO

Columbia Serial No. 100 XL <sup>6173</sup>~~6169~~

File Index No. 210,433 <sup>B</sup>

September 18, 1944

Professor Harold Urey  
SAM Laboratories  
Columbia University  
New York, New York

Dear Professor Urey:

On my last visit I found that the work on opacity is going forward very satisfactorily. Mrs. Mayer and Harris Mayer have done a wonderful job in clearing up a number of uncertainties and it seems that the work now is a straightforward though extremely tedious calculation. Naturally with a question of that complexity, constant surveyance will remain necessary and it is very fortunate that Mrs. Mayer has promised to do that even though she will have other duties in the near future.

It would be of great importance to our work here to have the results of the opacity calculations as fast as possible. In order to speed up the work I should recommend that an additional man be employed in the calculations. It is necessary that this man should be very able since the calculation continues to require a great deal of judgment as to what things have to be taken into account and what can be neglected.

Knowing that men of high qualifications are scarce these days, I thought that it might be useful that I suggest a capable person for this job. Mr. Wilkins in Wigner's group at the Metallurgical Laboratory has been doing, according to Wigner, excellent work. He is a colored man and since Wigner's group is moving to "X" it is not possible for him to continue work with that group. I think that it might be a good idea to secure his services for our work.

Yours very sincerely,

*Edward Teller*  
Edward Teller

ml

~~CONFIDENTIAL~~



~~SECRET~~

This document consists of 1 Page(s)  
No. 1 of 3 Copies, Series. 7

P. O. Box 1663  
Santa Fe, New Mexico  
6 August 1945

MEMORANDUM

To: Major John A. Derry  
From: Captain R. A. Larkin  
Subject: Information for Hubbard

It is requested that the following information be obtained from Col. D. N. Yates as soon as practicable:

"The time and position of arrival on the West Coast of the air which was over Honshu Japan at 2000 EWT on 5 August. 1945. Also latest corrected estimates of this data as they come out."

Suggest that this information in the form of dates and positions on coast, be sent by TWX directly to J. M. Hubbard at SE50, Northwest Airlines, Seattle, Washington. If this is not possible it can be sent to Y and then relayed to Hubbard.

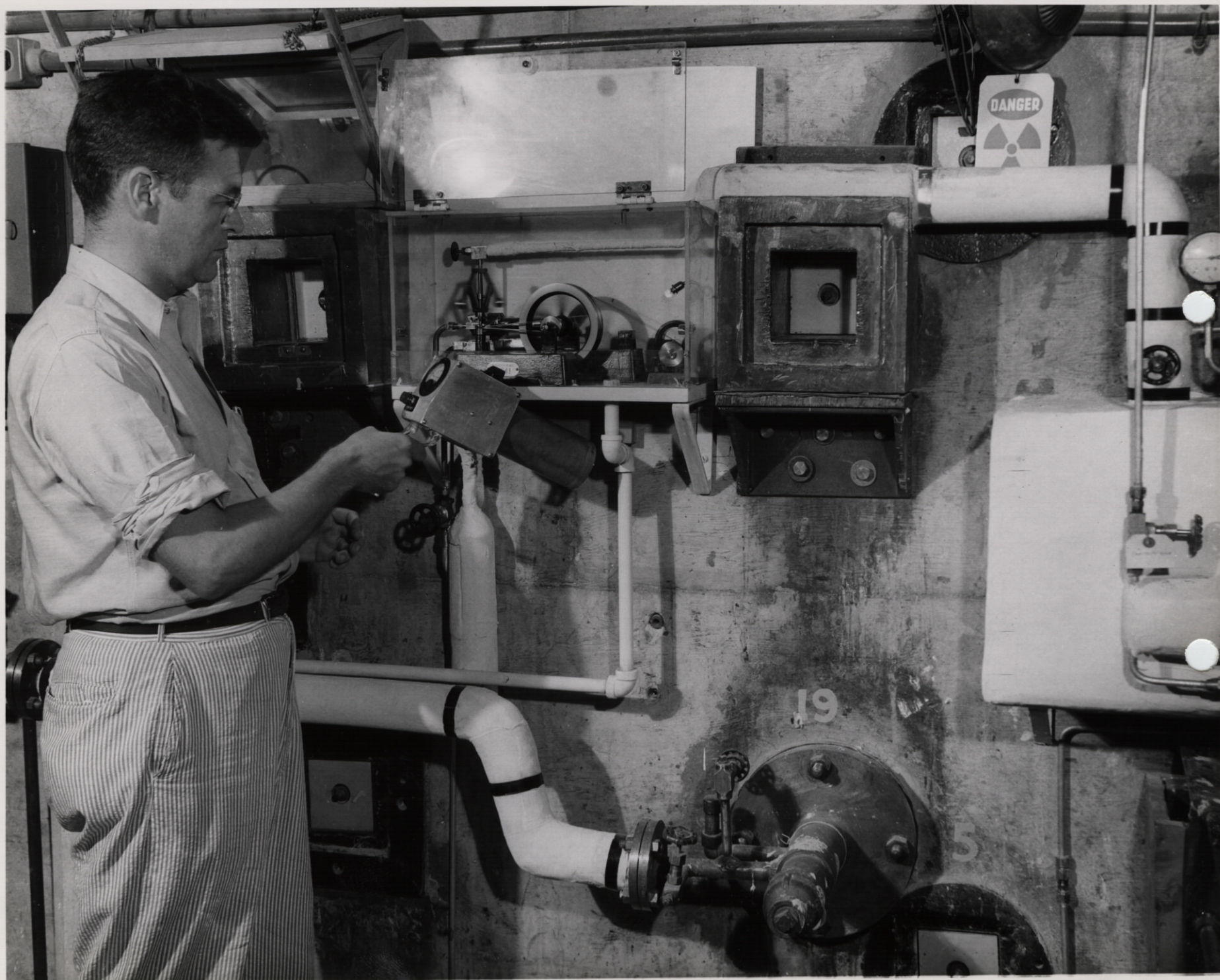
whm/ig

R. A. Larkin

*R. H. Munse*

By Direction







ORIGINAL  
(To be retained  
by Clerk of Court)

UNITED STATES OF AMERICA  
PETITION FOR NATURALIZATION  
(Under General Provisions of the Immigration and Nationality Act)

274-25  
No. 7888

To the Honorable the District Court of The United States at Birmingham, Alabama

This petition for naturalization, hereby made and filed, respectfully shows:

- (1) My full, true, and correct name is Wernher von Braun Alabama  
(2) My present place of residence is 907 McClung St., Huntsville, Madison  
(3) My occupation is Scientist  
(4) I am 42 years old. (5) I was born on March 23, 1912 in Wirsitz, Posen, Germany  
(6) My personal description is as follows: Sex male, complexion fair, color of eyes blue, color of hair blond, height 6 feet 0 inches, weight 183 pounds, visible distinctive marks fracture marks on left fore-arm, country of which I am a citizen subject, or national Germany  
(7) I am married; the name of my wife or husband is Maria Louise von Braun, we were married on February 1, 1947 at Landshut, Germany  
he or she was born at Berlin, Germany on June 10, 1928  
and entered the United States at El Paso, Texas on November 2, 1949 for permanent residence in the United States  
and now resides at Huntsville, Alabama with me and was naturalized on November 2, 1949  
at El Paso, Texas certificate No. two; or became a citizen by naturalization  
(8) I have two children; and the name, sex, date and place of birth, and present place of residence of each of said children who is living, are as follows:  
Iris Careen von Braun female 12/9/48 El Paso, Texas Huntsville, Ala.  
Margrit Cecile von Braun female 5/8/52 Huntsville, Ala. Huntsville, Ala.  
(9) My lawful admission for permanent residence in the United States was at El Paso, Texas under the name of Wernher von Braun on November 2, 1949  
on the El Paso City Lines (Name of vessel or other means of conveyance)

(10) Since my lawful admission for permanent residence I have not been absent from the United States, for a period or periods of 6 months or longer, except as follows:

DEPARTED FROM THE UNITED STATES			RETURNED TO THE UNITED STATES		
PORT	DATE (Month, day, year)	VESSEL OR OTHER MEANS OF CONVEYANCE	PORT	DATE (Month, day, year)	VESSEL OR OTHER MEANS OF CONVEYANCE

(11) It is my intention in good faith to become a citizen of the United States and to renounce absolutely and entirely all allegiance and fidelity to any foreign prince, potentate, state, or sovereignty of whom or which at this time I am a subject or citizen. (12) It is my intention to reside permanently in the United States. (13) I am not and have not been for a period of at least 10 years immediately preceding the date of this petition a member of or affiliated with any organization proscribed by the Immigration and Nationality Act or any section, subsidiary, branch affiliate or subdivision thereof nor have I during such period engaged in or performed any of the acts or activities prohibited by that act. (14) I am able to read, write and speak the English language (unless exempted therefrom). (15) I am, and have been during all the periods required by law, a person of good moral character, attached to the principles of the Constitution of the United States and well disposed to the good order and happiness of the United States. I am willing, if required by law, to bear arms on behalf of the United States, or to perform noncombatant service in the Armed Forces of the United States, or to perform work of national importance under civilian direction (unless exempted therefrom). (16) I have

resided continuously in the United States of America for the term of 5 years at least immediately preceding the date of this petition, to wit, since November 2, 1949 and continuously in the State in which this petition is made for the term of 6 months at least immediately preceding the date of this petition, to wit, since May 10, 1950; and during the past 5 years I have been physically present in the United States for at least one-half of that period. (17) I have not heretofore made petition for naturalization: No. on Month Day Year at City or town County State in the Court, and such petition was denied by that Court for the following reasons and causes, to wit:

(18) Attached hereto and made a part of this, my petition for naturalization, are the affidavits of at least two verifying witnesses required by law.

(19) Wherefore I, your petitioner for naturalization, pray that I may be admitted a citizen of the United States of America, and that my name be changed to Wernher von Braun. I, aforesaid petitioner, do swear (affirm) that I know the contents of this petition for naturalization subscribed by me, and that the same are true to the best of my knowledge and belief, and that this petition is signed by me with my full, true name: SO HELP ME GOD.

ALIEN REGISTRATION NO. 6 619 556

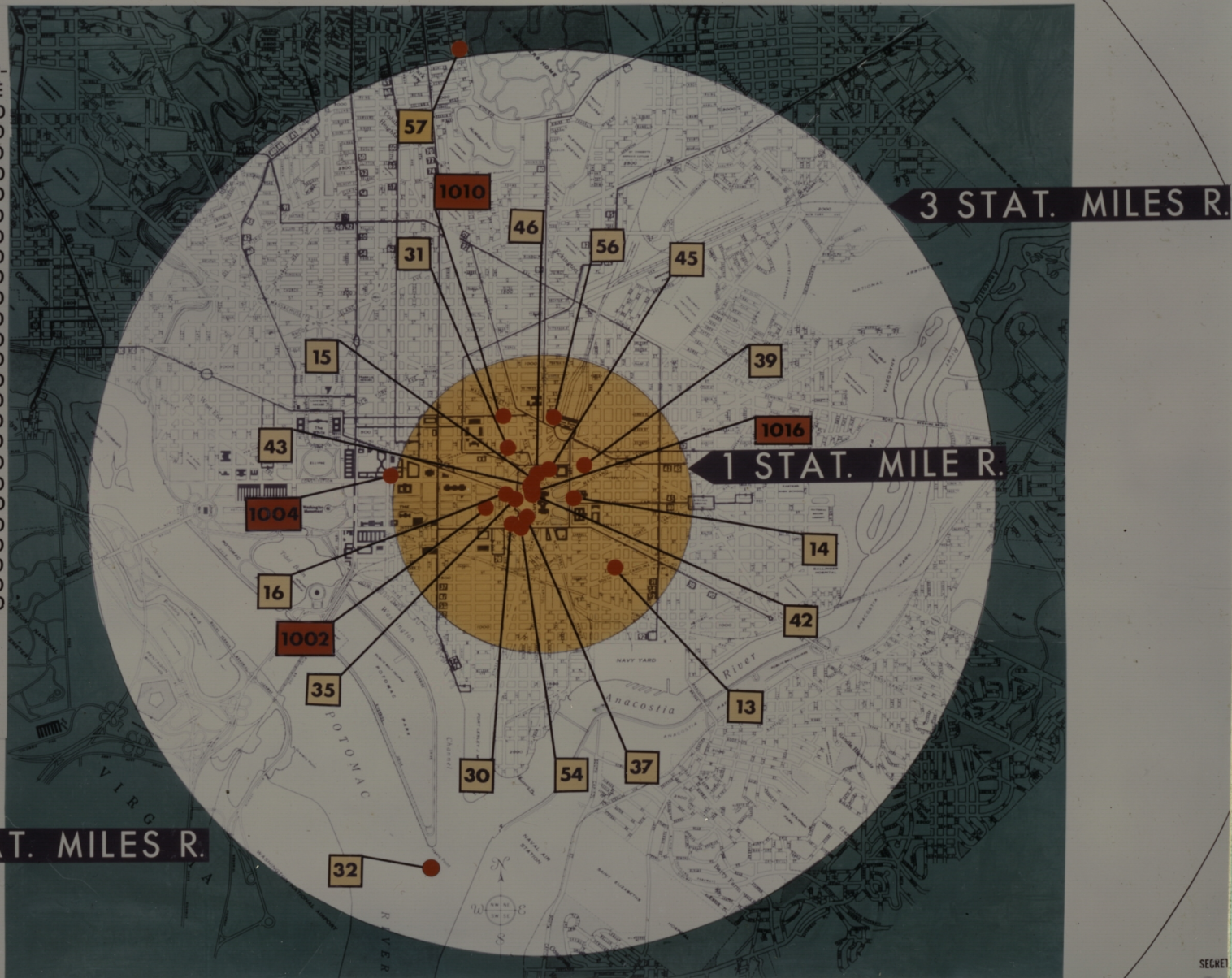




# TARGET ACCURACY CHRYSLER BUILT REDSTONE MISSILES

## LEGEND

MISSILE NO.	DATE FIRED	GUID-ANCE
13	19 JUL 56	ST-80
14	18 OCT	ST-80
15	29 NOV	ST-80
16	18 JAN 57	ST-80
32	14 MAR	ST-80
30	27 MAR	ST-80
31	26 JUN	ST-80
35	12 JUL	ST-80
37	25 JUL	ST-80
38	10 SEP	ST-80
39	2 OCT	ST-80
41	30 OCT	ST-80
42	10 DEC	ST-80
45	14 JAN 58	ST-80
46	11 FEB	ST-80
43	27 FEB	ST-80
1002	16 MAY	ST-80
1004	2 JUN	ST-80
48	11 JUN	ST-80
54	24 JUN	ST-80
56	17 SEP	ST-80
57	5 NOV	ST-80
1010	19 JAN 59	ST-80
1011	16 FEB	ST-80
1016	10 MAR	ST-80





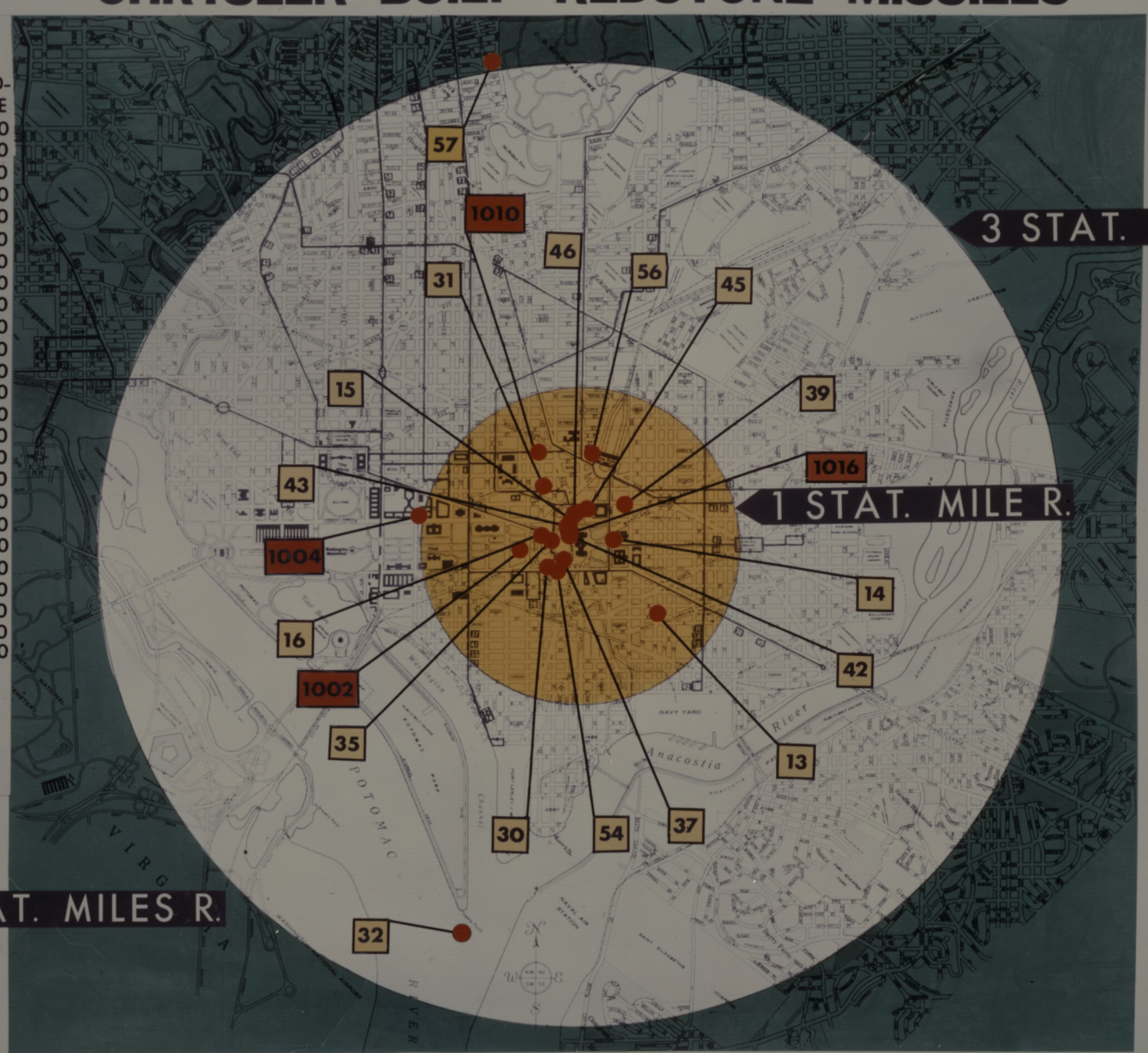


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SECRET

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5 STAT. MILES R.

3 STAT. MILES R.

1 STAT. MILE R.

Missile Division

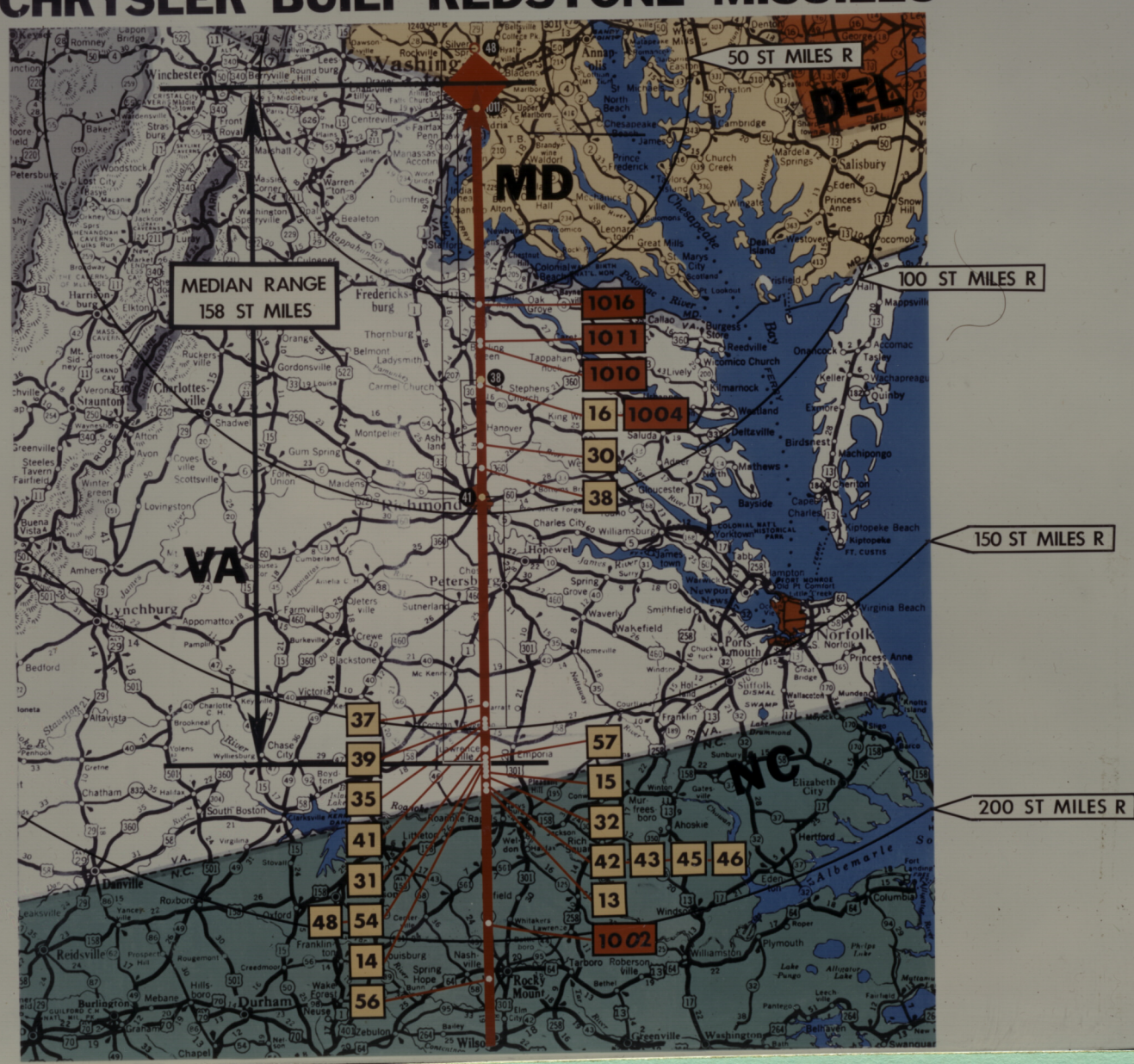
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# EQUIVALENT LAUNCH SITES CHRYSLER BUILT REDSTONE MISSILES

APR 59

Max. Range - 210.5 St. Mi.  
Min. Range - 53 St. Mi.



150 ST MILES R.

200 ST MILES R.

SECRET

Missile Division



~~SECRET~~UNITED STATES GOVERNMENT  
RECORD

HFriedrich, AThiel/efh/258

DATE: 2 April 1951

TO: See Distribution

FROM: Performance Investigation  
Project Planning

SUBJECT: Rocket missiles for ranges between 125 and 200 nautical miles carrying a payload of 6900 lb and utilizing ethylalcohol and liquid oxygen as propellants

In order to judge and compare the present preliminary design and performance of the URSA Project - (75,000 NAA powerplant for a 6900 lb payload) - with respect to possible optimum thrust-payload combinations for the same interval of impact ranges, investigations were performed to find the optimum by calculating take-off weight, propellant weight, and empty weight of rocket missiles versus thrust with range, initial acceleration, and burning time as parameter.

If, as discussed in detail in PGCB Memo. #27 of 18 September 1950, the optimum thrust selection for a given payload is based on a minimum total take-off weight, the results of the investigation show that the present URSA thrust-payload combination - (75,000 lb NAA Powerplant for a 6900 lb payload) - would yield an optimum combination for a range of about 125 N.M. with an initial acceleration of about 0.55g and a burning time of about 87 sec. The present URSA project with 110 sec burning time and an initial acceleration of about 0.3g yields a range of about 156 N.M. but deviates already distinctly from an optimum thrust-payload combination for this range. The optimum thrust would be 86,000 lb - 39 metric tons. Thus the planned increase of the NAA powerplant thrust from 75,000 lb to 90,000 lb can be considered as a very favorable shift in direction to an optimum thrust-payload combination of the URSA - Project for a range of about 167 N.M. with a burning time of about 92 sec, and an initial acceleration of about 0.55g. \*

The results of the investigations are shown in graphs D1 to D5. They are self-explanatory.

Approved:

*Wernher von Braun**Hans R. Friedrich* *Adolf K. Thiel*  
Hans R. FRIEDRICH Adolf K. THIEL

\* These results are a first estimate. They might change somewhat. More detailed data will be published later.

## DISTRIBUTION:

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Classification Changed

~~SECRET~~  
**UNCLASSIFIED**

To:

By Authority of *AMCTC 24 June 64*  
Date *4/17/67* By *Thiel*~~SECRET~~*C 117611-2 Apr 51-III F*



## Office Memorandum • UNITED STATES GOVERNMENT

TO : Ed Stakley

DATE: July 20, 1955.

FROM : Dave Cope

SUBJECT: Presidential visit to Reactor.

President visited reactor today for 40 minutes from 3:00 to 3:40 Geneva time. Made complete tour of bldg, operated the reactor up to full power and made short talk. Attached is fact sheet handed out to press. Perhaps you can make some use of the info.

Dave





len 9166