CONFIDENTIAL

P. D. BOX 1663 SANTA FE, NEW MEXICO

September 18, (1944) 2.

Columbia Serial No. 100 X (2-6/69)

File Index No. 2/0.433

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

CONFIDENTIAL Columbia Serial No. 100 X A Columbia Serial No. 100 X A Columbia Serial No. 100 X A Columbia Serial No. 210,433

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.

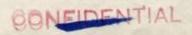
It would be of great importance to our work here to have the results of the opacity calculations as fast as possible. In order to speed up the work I should recommend that an additional man be employed in the calculations. It is necessary that this man should be very able since the calculation continues 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

ml





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

## MEMORANDIM

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

By Direction

If H. munse



General I Form approved.
Budget Buregu No. 43-R083.7.

ORIGINAL (To be retained by Clerk of Court)

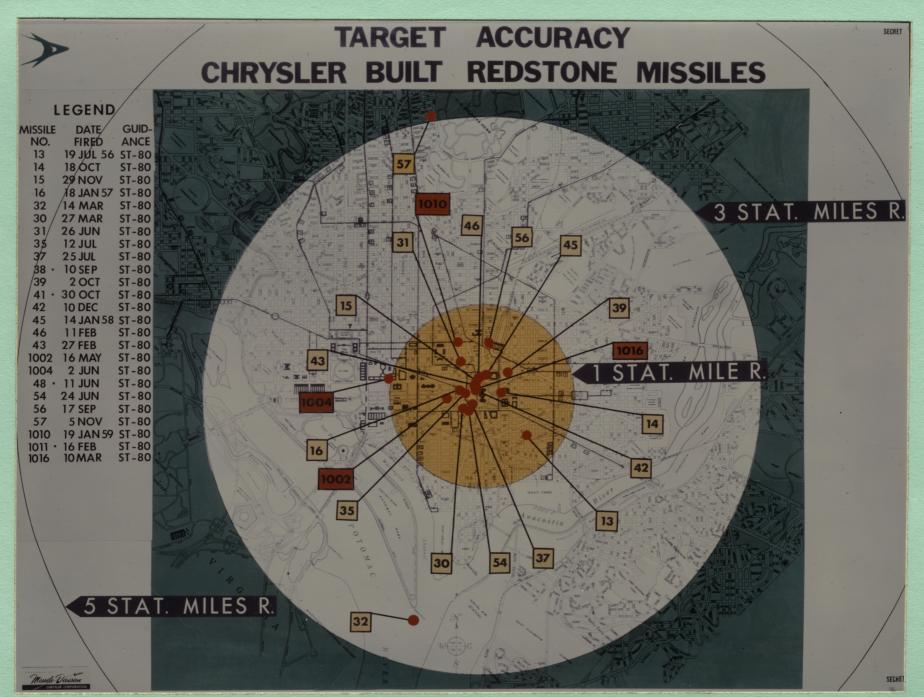
## UNITED STATES OF AMERICA

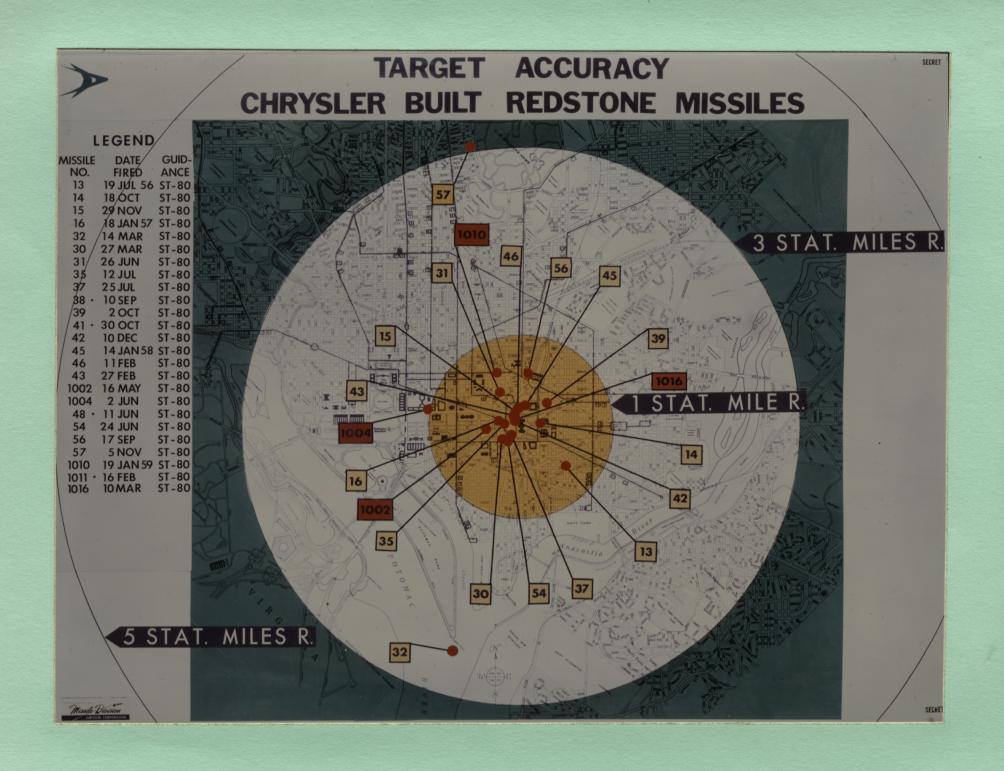
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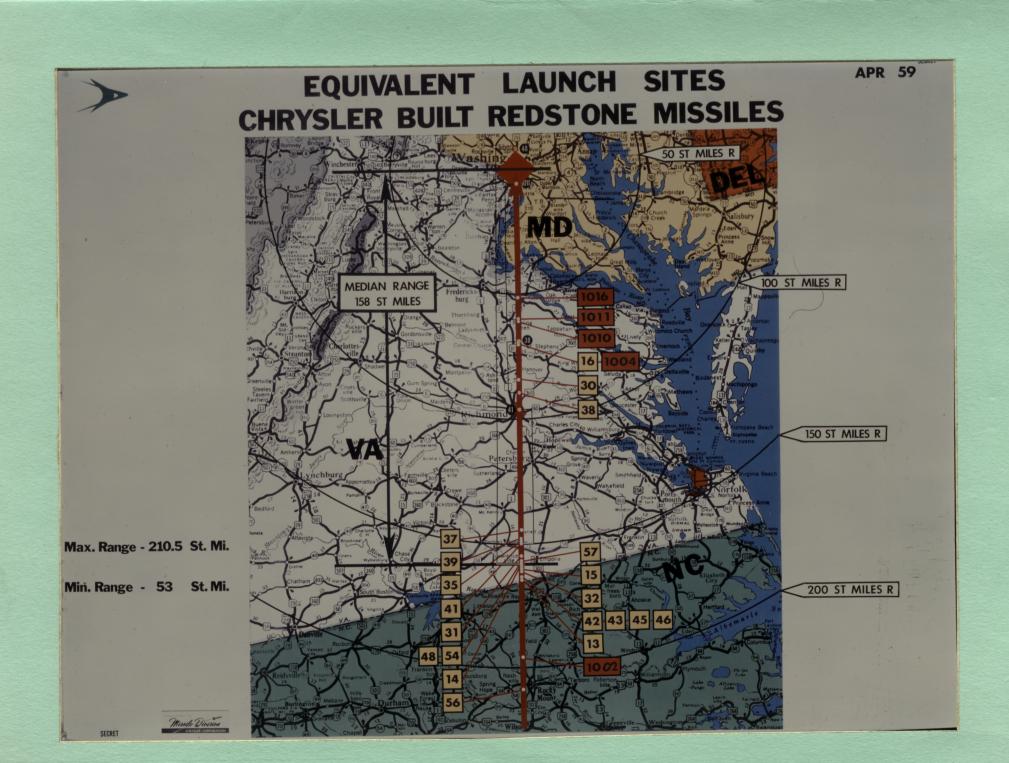
PETITION FOR NATURALIZATION

(Under General Provisions of the Immigration and Nationality Act)

		0205	- seres and seem to		
To the Honorable the	Dist	rict Cour	t of The United St	ates at	Birmingham, Alabam
This petition for naturalis	ation, hereby ma	de and filed, respectfully sh	in the United States continuous:	of filing this petition,	immediately proceding the date
(1) My full, true, and correct	name is Wern	her von Braun	Athat period; and that he ha	abama	in the United States for at least
(2) My present place of resid	ence is 907 Mc	Clung St. Huntsv	Tile, Madison (3)	dy occupation is	clentist
(4) I am 42 years old	. (5) I was born on	Clung St., Huntsty	County) (State)	Wirsitz, P	osen, Germany
(6) My personal description	is as follows: Sex	male (Day)	fair color of eyes	blue (Cour	nty, district, province, or State) (Country)
height 6 feet 0	inches, weight	183 pounds, visible distinct	ive marks fracture m	arks on le	It fore-arm; country of which I am a citizen
				dis Maria L	ouise von Braun
we were married on Feb	ruary 1.	1947 at	Landshut Ge	rmanv	,
MUNICIPAL EXAMINER	anth) YE CHERT (dam	Germany	Land shut Ge	June 10	(State or country) O Many
and entered the United States	at El Paso	(County, district, province, or State)	(Country)	(Month)	(Day) (Year)
and now resides at Hun	tsville. A	Tabama with me	(Month) (Day)	(Year)	fix the respective forms of eath al
to yeb sldf	(Number and street)	(City or town) certificate No.	(County and State)	oltisen by	1928 (Day) (Year) t residence in the United States (Month) (Day) (Year)
(8) I have CWO children	and the name, sev	date and place of birth, and pr	peant place of recidence of each	of sold shildren wh	to yetflJBIald:
Iris Careen von	n Braun	female 12/9/	48 El Paso Te	YOS Hin	ntsville, Ala.
Margrit Cecile	von Braun	female 5/8/5	2 Huntsville	Ala Hin	ntsville, Ala.
the clerk of said court	ed in the office o	petitioner named berein fil	~,	aras nu	HASTITIC TIES
this day of				and the same	VII
(O) My lawful admission for	A. D. 10.	in the United States was at	El Paso Ta	Yog	
Wernher vo	on Braun	in the United States was at	November 2	1949 <sup>(8)</sup>	under the name of
			(Month)	1919	(Day) (Year)
on the El Paso Ci	ame of vessel or other mean	as of conveyance)			
(10) Since my lawful admission	n for permanent resid	dence I have not been absent from	m the United States, for a perio	d or pariods of 6 man	ths or longer, except as follows:
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## 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 Dl to D5. They are self-explanatory.

Approved:

Wernhor our Braun

A Ham R. FRIEDRICH Adolf K. THIEL

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

Classification Changed

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Document Section (2)

SECHET

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## Juk Hot Office Memorandum

TO : Ed Stattley

DATE: July 20, 1955.

FROM: Dave Cope

SUBJECT: Presidental visit to Reactor.

President visited reactor today for 40 minutes from 3:00 to 8:40 seneva time. Made complete tour of bldg, operated the reactor up to full power and made short talk. attached in fact sheet handed out to press. Terhaps you can make some use of the Dave

Cu 9166