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FEB 23 1966
RS 3116/211

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UNIQUE DOCUMENT # SAC200118550000

PQA;455QAA005

OO RUTQEN RUEPXG RUWPQL RUWMFNA RUWPQS RUCDGU RUWTBTA

DE RUWPQA 317C 0532233

ZNY SSSSS

O 222153Z

FM USAEC WALTER F WHITE ALBUQUERQUE NMEX

O RUTQEN/16TH AF ADVON TORREJON AFB SPAIN SERIES C

/PLS PASS TO W R BARTON AND S A MOORE/

INFO RUEPXG/USAEC LCDR HEDRICK WASHINGTON D C SERIES D

RUWPQL/LASL FRANK DUNN LOS ALAMOS NMEX SERIES E

RUWMFNA/DNS KIRTLAND AFB NMEX SERIES F

RUWPQS/SANDIA CORP ATTN R E MAYDEW ORG 9320 AND W R HOAGLUND

ORG 1540 ALBUQUERQUE NMEX SERIES G

RUCDGU/SEG AFSC R W BACHMAN WPAFB OHIO SERIES H

RUWTBTA/DAD M R BENNETT EGLIN AFB FLA SERIES I

AEC

BT

SECRET RESTRICTED DATA GP-1. FOLLOWING FROM W N CAUDLE
REFERENCE YOUR MESSAGES C-00298 AND C-00289 FEB 1966.

REC'D 9320
2-9-66
MAR 15 1966

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b(3)

[REDACTED]

THE INITIAL OR RELEASE CONDITIONS FOR

BOTH SETS OF TRAJECTORIES WERE TAKEN FROM YOUR MESSAGE C-00298,
DATE TIME GROUP 201500Z.

[REDACTED]

STAGE ONE ALTITUDE IS

25,000 FEET, STAGE TWO ALTITUDE IS 20,000 FEET AND STAGE THREE

~~RESTRICTED DATA~~

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| DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW | |
|---|------------------------------------|
| 1ST REVIEW DATE: 6/97 | DETERMINATION (CIRCLE NUMBER(S)) |
| AUTHORITY: <input type="checkbox"/> DC <input checked="" type="checkbox"/> DD | 1. CLASSIFICATION RETAINED |
| NAME: Bill Lawrence | 2. CLASSIFICATION CHANGED TO: |
| 2ND REVIEW DATE: 1/6/99 | 3. CONTAINS NO DOE CLASSIFIED INFO |
| AUTHORITY: DR | 4. COORDINATE WITH: |
| NAME: [Signature] | 5. CLASSIFICATION CANCELED |
| | 6. CLASSIFIED INFO BRACKETED |
| | 7. OTHER (SPECIFY): 4-Pak TWX |

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PAGE TWO RUWPQA 317C S E C R E T RD GP-1
ALTITUDE IS 15,000 FEET. THE CONDITIONS AT THE VARIOUS STAGING
ALTITUDES BASED ON THE INITIAL OR RELEASE CONDITIONS GIVEN
ABOVE ARE PRESENTED IN TABLE 1.

TABLE 1. CONDITIONS AT STAGE ALTITUDE (CDS - 18.0)

| ALTITUDE | VELOCITY (FPS) | TOF (SEC) | X (FT) | Y (FT) | ANGLE (DEG) |
|----------|----------------|-----------|--------|--------|-------------|
| 25000 | 378 | 15 | -1276 | -3779 | -66 |
| 20000 | 436 | 28 | -2056 | -4683 | -83 |
| 15000 | 430 | 39 | -2570 | -4542 | -83 |

THE TRAJECTORY FOR THE TAIL COVER USING THE NEW WINDS AND A CDS
OF 2.5 IS GIVEN IN TABLE 2. I MUST EMPHASIZE THAT ALL TIMES
PRESENTED BELOW ARE TOTAL TIMES (FROM RELEASE TO IMPACT) AND EACH
TRAJECTORY IS IDENTIFIED BY STAGE NUMBER.

TABLE 2. TAIL COVER (CDS - 2.5)

| STAGE | IMPACT VELOCITY (FPS) | TOF (SEC) | X(FT) | Y (FT) | ANGLE (DEG) |
|-------|-----------------------|-----------|-------|--------|-------------|
| 1 | 128 | 181 | -4375 | 5600 | -74.5 |
| 2 | 128 | 165 | -3967 | 2890 | -74.5 |
| 3 | 128 | 145 | -3583 | 919 | -74.5 |

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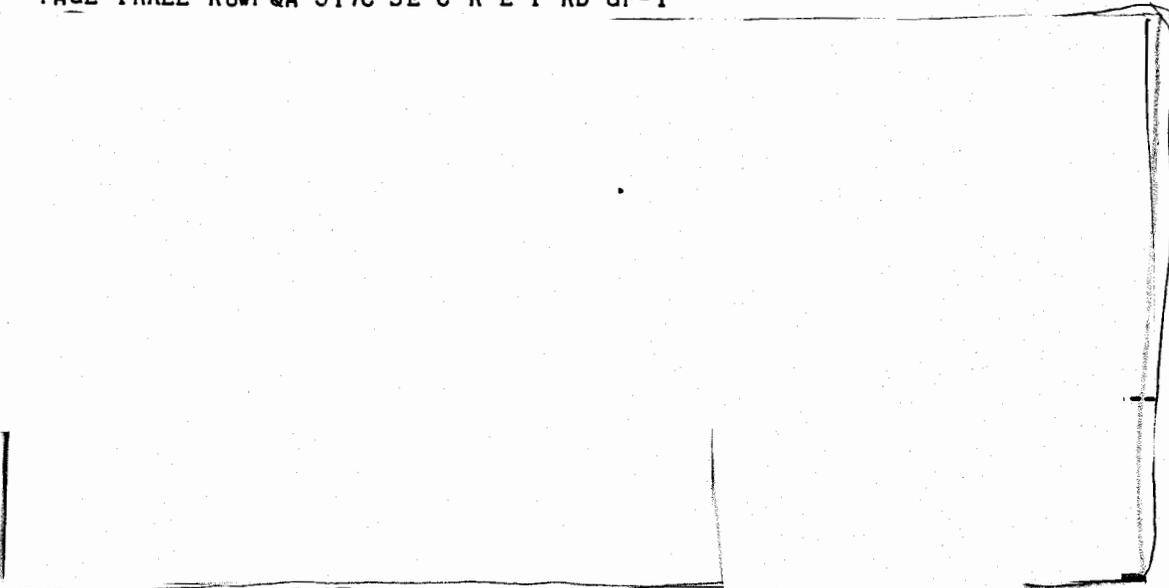
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PAGE THREE RUWQA 317C SE C R E T RD GP-1

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b(3)



AGAIN, I WOULD LIKE TO POINT OUT THAT THE DATA CONTAINED IN TABLES 2, 3, AND 4 ARE TOTAL VALUES, FROM INITIAL OR RELEASE CONDITION TO IMPACT. I PRESENTED TABLE 1, THE CONDITIONS AT STAGING, SO THAT YOU COULD LOOK AT VARIOUS PARAMETERS FROM STAGING TO IMPACT, IF YOU DESIRE, BY MERELY SUBTRACTING THE VALUE IN TABLE 1, FROM ANY OF THE OTHER THREE TABLES.

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PAGE FOUR RUWPQA 317C S E C R E T RD GP-1

CURRENT PROFILE YOU SUBMITTED. THE CHUTE WITH A 1500 POUND WEIGHT WOULD DRIFT 1436.7 FEET FROM THE IMPACT POINT AGAIN IN THE DIRECTION OF THE CURRENT. THIS VALUE CALCULATED USING A TERMINAL VELOCITY OF 0.79 FPS. MORE DATA WILL FOLLOW. NEW SUBJECT: FOR W R BARTON FROM R C MAYDEW. PLAN YOUR DEPARTURE SO THAT YOU WILL BE AVAILABLE AT SANDIA/ALBUQUERQUE ON MONDAY, MARCH 7. PLANS ARE BEING MADE FOR W N CAUDLE TO PROCEED TO SPAIN AND OVERLAP YOUR STAY BY ONE DAY OR WHATEVER TIME YOU DEEM NECESSARY. MR CAUDLE WILL LEAVE ALBUQUERQUE ON SUNDAY, FEB 27, ARRIVING MADRID AROUND NOON MONDAY, FOLLOWING YOUR SCHEDULE, AND PROCEED TO CAMP WILSON, ON TUESDAY MORNING. HE WILL MEET WITH YOU AND MAKE ARRANGEMENTS FOR CONTINUED SANDIA BALLISTIC AND EARTH PENETRATING SUPPORT OF BOMB SEARCH IF 15TH AIR FORCE DEEMS IT NECESSARY. PLEASE ADVISE ASAP PD

BT
DISTRIBUTION:

1/00 - R. C. MAYDEW ORGN 9320 ←

1/00 - W. R. HOAGLAND ORGN 1544

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Distribution:

MD639A Elva Barfield, FOIA Officer/OPA; DOE/AL

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FEB 1 1966

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UNIQUE DOCUMENT # SAC2001854000

QTA385ZCVQA028

OO RUWPQA RUWPQL RUWPQS

DE RUTQBN 3A 0321035

ZNY SSSSS

O 010900Z JAN 66

FM 16AF ADVON SPAIN

REC'D 9320
MAR 15 1966

TO RUWPQA/USAEC ALBUQ N M

RUSCS/CINCSAC

KNUWMFMA/DIR OF NUCLEAR SAFETY KIRTLAND AFB N M

RUWPQL/LASL LOS ALAMOS N M

RUWPQS/SANDIA CORPORATION ALBUQ N MEX

BT

SECRET /RD/C-00108. FEB 66.

FOR: MANAGER USAEC, W.R. BARTON SANDIA CORP 9320, AEC-ALOHAUTY

OFFICER93 THIS MSG IN TWO PARTS. PART I. FOR AEC-ALO DUTY OFF.

PLEASE CONTACT W.R. BARTON, SANDIA CORPORATION 9320 IMMEDIATELY.

VERIFY THAT BARTON HAS RECEIVED THREE MESSAGES FROM MAYDEW REQUEST-

ING TRAJECTORY INFO. BY RETURN TWX PLEASE ADVISE STATUS OF

CALCULATIONS PART II: FOR W.R. BARTON, SANDIA CORP 9320.

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~~THIS DOCUMENT CONSISTS OF 2 PAGES~~
~~NO. 1 OF 1 COPIES, SERIES A~~

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| DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW | |
|--|---------------------------------------|
| 1ST REVIEW DATE: 6/97 | DETERMINATION (CIRCLE NUMBER(S)) |
| AUTHORITY: DC 6200 | 1. CLASSIFICATION RETAINED |
| NAME: Frank Lawrence | 2. CLASSIFICATION CHANGED TO: |
| 5.66 | 3. CONTAINS NO DOE CLASSIFIED INFO |
| 2ND REVIEW DATE: 1/6/99 | 4. DECLASSIFIED <i>NRA</i> |
| AUTHORITY: BB | 5. CLASSIFICATION CANCELED |
| NAME: Pat Williams | 6. CLASSIFIED INFO BRACKETED |
| | 7. OTHER (SPECIFY): 2-PAGE TWX |

USAF, No addn. brackets
5/11/99 LSP.

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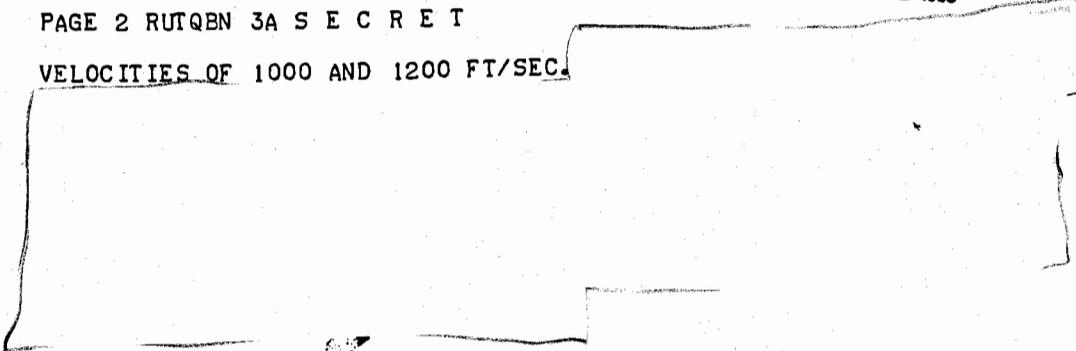
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PAGE 2 RUTQBN 3A S E C R E T

VELOCITIES OF 1000 AND 1200 FT/SEC.



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