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Ref S 3416/~~122~~
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PP RUTQBN RUWMFNA RUEPXG RUWPUT RUWPQL RUWPQS

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ZNY SSSSS

P 022350Z

FM USAEC WALTER F WHITE ALBUQUERQUE NMEX

TO RUTQBN/16AF ATTN ADVON PLS PASS TO R C MAYDEW & DAVID J. HART

TORREJON AB SPAIN SERIES C

INFO RUWMFNA/DNS KIRTLAND AFB ALBUQUERQUE NMEX SERIES D

RUEPXG/USAEC ATTN LCDR G. HEDRICK DMA WASHDC SERIES E

RUWPUJ/FC/DASA ATTN: JNACLCOL CARL JOHNSON SANDIAB ALBUQ NMEX SERIES F

RUWPQL/LASL ATTN FRANK DUNN LOS ALAMOS NMEX SERIES G

RUWPQS/SANDIA CORP ATTN W. BARTON ORG. 9334 SANDIAB ALBUQ NMEX SERIES H

RUWPQS/SANDIA CORP ATTN S. MOORE ORG. 1540 SANDIAB ALBUQ NMEX SERIES H

AEC

BT

SE C R E T//RESTRICTED DATA//GP-1//. PART I FOR MR. MAYDEW. RE: ANALYSIS OF AIRPLANE COLLISION NEAR VERA, SPAIN BY SANDIA CORPORATION TEAM (MESSAGE 4). REF: (1) SRDMSG, 30 JANUARY 1515 ZEBRA TO RUWPQS/W. R. BARTON, 9320, SANDIA CORP.,ALB., NM, FM R. C. MAYDEW, S.V. ASSELIN 16AF ADVON, SPAIN; (2) SRD MSG, 31 JANUARY 0825 ZEBRA TOARVWPQS,/SANDIA CORP, ALB., NM, ATTN W. R. BARTON, SA. MOORE FM 16AF ADVO SPAIN N, R. C.

MAYDEW, S. V. ASSELIN; (3) SRD MSG, 31 JANUARY 1030 ZEBRA TO RUWPQS/W. R. BARTON, 9320, SANDIA CORP, ALB., NM, FM 16AF ADVON SPAIN, R. C. MAYDEW S. V. ASSELIN; (4) SRD MSG, 1 FEBRUARY 0900 ZEBRATO RUWPQA/USAEC, ALB., N.M., FOR W. R. BARTON, SANDIA CORP., 9320, FM16AF ADVON SPAIN. FREE

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEW-DATE: 6/97
AUTHORITY: DC DD
NAME: Bill Lawrence
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AUTHORITY: DD
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Attach 12.

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PAGE TWO RUWPWA 1390 S E C R E T//RD//GP-1//.

FALL TRAJECTORIES FOR UNIT NO. 2 ASSUMING 256 DEG. GROUND TRACK AND RELEASE GROUND SPEED OF 615 FPS INDICATE THAT THE RELEASE POINT WAS ON AN AZIMUTH OF 74 DEGREE 45 FT. ATA RANGE OF 22,710 FT. FROM UNIT 2 LOCATION. TRAJECTORY FOR UNIT 3 ASSUMING ASTREAMING 16-FT. PARACHUTE, 256 DEG. GROUND TRACK AND A RELEASE SPEED OF 615 FPS INDICATES RELEASE POINT TO BE ON AN AZIMUTH OF 72 DEGREE 0 FT. ANDA RANGE OF 21,420 FT. FROM UNIT 2 LOCATION. DUE TO THE DISTANCE BETWEEN THE TWO INDICATED RELEASE POINTS, TRAJECTORIES WERE RUN FOR UNITS 2 AND 3 ASSUMING 515 FPS RELEASE VELOCITIES. IN MAPPING THE INDICATED RELEASE POINTS FROM ALL OF THE TRAECTORIES, A CONVERGENCE TOWARD THE515 FPS RELEASE SPEED WAS INDICATED. USING THIS INFORMATION, A NEW RELEASE POINT FOR ALL UNITS WAS DETERMINED TO BE ON AN AZIMUTH OF 73 DEGREE 15 FT. AT A RANGE OF 18,950 FROM UNIT 2LOCATION. THIS POINTWAS USED AS THE REFERENCE POINT FOR ALL SUBSEQUENT TRAJECTORIES. THIS POINT IS APPROXIMATELY 37 DEGREES 15.55 MINUTES NORTH LATITUDE AND 1 DEGREE 45.0 MINUTES WEST LONGITUDE. ASSUMING UNIT 1 FREE FELL TO 18,000 FEET THEN DEPLOYED THE 16-FT. CHUTE, THE IMPACT POINT AGREES TO WITHIN 1700 FEET. ASSUMING THE TAIL COVER OF UNIT 4 CAME OFF AT RELEAEE POINT, IT IS CARRIED BY THE WIND TO AN IMPACT POINT AT LEAST 2 MILES FROM SHORE IN THE WATER. IS IT POSSIBLE THAT THIS TAIL COVER MAY HAVE BEEN CARRIED IN TO SHORE AS PART OF THE 52 WRECKAGE?

PAGE THREE RUWPQA 189C S E C R E T//RD//GP-1//.

[redacted]

DOE
b(3)

ASSUMING THE 16-FT. CHUTE CAME OUT ON UNIT 4 AT RELEASE POINT, THE IMPACT LOCATION WOULD BE ON AN AZIMUTT OF 89 DEGREE 45 FT. AND A RANGE OF 27,400 FEET FROM UNIT 2. ALL AZIMUTH FIGURES ARE GIVEN AS TRUE HEADINGS. IT WAS ASSUMED IN ALL TRAJECTORIES THAT THE ALTITUDE CHANGE FROM COLLISION POINT TO RELEASE POINT WOULD BE SMALL; THEREFORE, THE ALTITADE AT RELEASE WAS ASSUMED TO BE 30,500 FEET. A NEW MAPPING OF THE MORE RECENT INFORMATION WILL FOLLOW. CAUDLE AND MC NEILL HAVE STARTED TO WORK ON THE DEPTH OF PENETRATION AND ENTRY HOLE CONDITIONS. WE PLAN TO REVIEW COL. GERNERT'S SLIDES TO DETERMINE MORE ABOUT THE TERRAIN. JUST RECEIVED TWO NEW MESSAGES WITT NEW INLAND COLLISION PO

NT AND ADDITIONAL TRAJECTORY REQUESTS. I AM STARTING IMMEDIATELY ON NEW CALCULATIONS. I HOPE TO HAVE THESE COMPLETED IN 24 HOURS. CAN YOU SEND A DESCRIPTION OF THE DAMAGE TO THE 16-FOOT CHUTE OF UNIT 3, ESPECIALLY WITH REGARD TO VENT AND/OR

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PAGE FOUR RUWPQA 1390 S E C R E T/RD/GP/.

SKIRT BAND DAMAGE. PICTURES WOULD AID IF THIS IS POSSIBLE. THE CDS OF A FULLY OPENED, INTACT, 64-FOOT PARACHUTE IS 2400 SQ. FT. HOWEVER, IT SHOULD BE NOTED THAT IF THE 64-FOOT PARACHUTE COMES OUT UNDER THE CONDITIONS YOU HAVE DESCRIBED, IT WOULD EXPERIENCE EXTENSIVE DAMAGE.

PART II FOR D. HART. THANKE FOR YOUR LETTER. WILL TWX INFO RE POSSIBLE REPLACEMENT SATURDAY.

END REF WDS:PHS(S-~~146~~)

BT

Distribution:

~~1/2H~~ S A MOORE Org 1540

~~2/2H~~ R C MAYDEW Org 9320
Attn: W. Barton 9324

This is an exact copy: 04/02/97: 7447: cmg.

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M0659A Elva Barfield, FOIA Officer/OPA; DOE/AL

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