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RVICE REQUIREMENT:

SAME DAY PAID

OVERNIGHT MONEY OR

PRIORITY BOOK

1st Review Date 10/14/97

Authority: ADC ADD

Name: W.H. LAWRENCE

2nd Review Date 10/23/97

Authority: ADD

Name: W.C. Layne

PLT

Declassify (Circle Number):

Classification: UNCL

Group: UNCL

Coordinate With:

Control: UNCLASSIFIED

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APR 23 1964

APR 22 1964

U. S. ATOMIC ENERGY COMMISSION
 ENGINEERING & TEST BRANCH
 DIVISION OF REACTOR DEVELOPMENT
 WASHINGTON, D.C. 20545

INVENTORIED
 DATE APR 27 1965

INVENTORIED
 DATE MAY 19 1964

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ATTN: LT. COL. W. K. KERN

REGARDING THE THOR-ABLESTAR ABORT OF APRIL 21, 1964, SEVERAL OBSERVATIONS AND RECOMMENDATIONS ARE PERTINENT.

1. THE AREA OF PAYLOAD RE-ENTRY SHOULD BE DETERMINED AS SOON AS POSSIBLE.
2. IF THE AREA OF RE-ENTRY IS KNOWN AND IF IT IS OVER ACCESSIBLE TERRITORY IMMEDIATE STEPS SHOULD BE TAKEN TO OBTAIN SAMPLES OF THE DEBRIS.
3. AIRBORNE SAMPLING MIGHT READILY BE OBTAINED FROM THE AIR FORCE TECHNICAL APPLICATION CENTER (SHD). THEIR STANDARD FILTER ANALYSIS TECHNIQUES SHOULD BE MODIFIED AS NECESSARY TO DETECT THE PRESENCE OF Pu²³⁸.

ALL EXISTING STRATOSPHERIC UPPER AIR OBSERVATIONS SHOULD BE GATHERED FROM MINUS ONE DAY UNTIL COMPLETION OF SAMPLING ATTEMPTS, AND PROVIDED TO ASSIST IN LOCATING THE SAMPLING AIRCRAFT.

4. GROUND OR WATER BASED COLLECTORS SHOULD ALSO BE CONSIDERED IN THE GENERAL AREA WHERE POSSIBLE. IF SHIPS ARE IN THE GENERAL AREA, FALLOUT COLLECTORS COULD

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW
 DOWNGRADING OR DECLASSIFICATION STAMP

CLASSIFICATION CHANGED TO: U AUTHORITY: W.C. Layne

Emilda Selph 11/3/97

PERSON CHANGING MARKING & DATE: 11/3/97 RECORD ID: 98SN0373

Vernell Bullers

PERSON VERIFYING MARKING & DATE: 10/23/97 DATED: 10/23/97

INVENTORIED
 DATE MAR 28 1966



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<input type="checkbox"/>	PRIORITY	<input type="checkbox"/>	BOOK		

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4. (Continued)

BE IMPROVISED WITH COOKIE SHEETS, ETC., COVERED WITH OIL OR GREASE (PREFERABLY VASELINE). AFTER COLLECTION INTERVALS THE GREASE COULD BE DISSOLVED IN AN APPROPRIATE SOLVENT AND THE RESULTING SOLUTION, IDENTIFIED BY DATE, POSITION, AND TIME OF EXPOSURE AND RETURNED FOR ANALYSIS.

5. IF SAMPLING IS TO BE UNDERTAKEN, PROMPTNESS IS OF THE UTMOST IMPORTANCE, AS PARTICLES LARGER THAN A FEW MICRONS WILL REACH THE SURFACE IN A FEW DAYS. SAMPLING THE AREA BEYOND ONE WEEK WOULD PROBABLY NOT BE FRUITFUL.

6. EXISTING SAMPLING NETWORKS SHOULD BE ALERTED TO ANALYZE SAMPLES FOR Pu²³⁸ AND REPORT RESULTS.

THOUGH THE PROBABILITY OF SUCCESSFULLY OBTAINING SAMPLES MAY BE LOW, WE RECOMMEND THAT AN EFFORT BE MADE BECAUSE OF THE FUTURE IMPORTANCE SUCH DATA COULD HAVE FOR AEROSPACE NUCLEAR SAFETY.

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THIS VEHICLE MALFUNCTION APPEARS TO BE CHARACTERISTICALLY LIKE THAT WHICH HAS BEEN ESTIMATED AS MOST PROBABLE FOR CREATING A HAZARD AND ALSO THE MOST INDETERMINANT FROM AN ANALYSIS STANDPOINT. THEREFORE, WE LOOK FORWARD TO RECEIVING AS MUCH DATA AND INFORMATION ON THE MALFUNCTION AS POSSIBLE IN ORDER THAT WE AT SANDIA MAY UNDERSTAND THE CIRCUMSTANCES AND APPLY THE KNOWLEDGE GAINED TO FUTURE STUDIES AND OPERATIONS.

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