

MRAA-7 Redwing

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UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON 25, D. C.

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COLLECTION RG 326-51-58 Secretary
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FOLDER MRAA-7 Redwing VI III

IN REPLY REFER TO:

MAT:RFM

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| DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW | | NOV 19 1985 |
| 1ST REVIEW DATE: <u>4/10/95</u> | DETERMINATION (CIRCLE NUMBER(S)) | |
| AUTHORITY: <u>135 DC 1350</u> | 1. CLASSIFICATION RETAINED | |
| NAME: <u>P. Brown</u> | 2. CLASSIFICATION CHANGED TO: | |
| 2ND REVIEW DATE: <u>4/14/85</u> | 3. INFORMATION TO BE CLASSIFIED INFO | |
| AUTHORITY: <u>McCollum</u> | 4. INFORMATION TO BE DECLASSIFIED | |
| | 5. INFORMATION TO BE CANCELLED | |
| | 6. INFORMATION TO BE BRACKETED | |
| | 7. INFORMATION TO BE | |

Major General A. R. Luedcke, USAF
Chief, Armed Forces Special Weapons Project
Washington 25, D. C.

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BY me RFM
DATE 3-22-73

Dear General Luedcke:

As you know, there developed during Operation REDWING a great interest in determining what operational measures could be taken to increase the local fallout in an effort to reduce thereby world-wide contamination. The fallout program as planned before REDWING did not have this as one of its major objectives. Unfortunately, this interest crystallized too late to permit any revision of AFSWP's programs. However, as a result of the briefing presented by AFSWP to the AEC Commissioners on October 22, 1956, and subsequent discussion with members of your staff concerned with fallout, the possibility exists that further information may be obtained from existing samples and data.

With this in mind, it is requested that AFSWP undertake the following:

- a. Further analyze the REDWING samples (analyses to include radiochemical) with attention to the elements Sr-90, Mo-99, Cs-137, Ce-144 and tritium.
- b. Develop, if possible, information on the amounts of water taken up by the shallow water shot TENA and the deep water shots NAVAJO and FLATHEAD.
- c. Develop, if possible, information on the amount of solid particulate and its composition taken up from the craters of FLATHEAD, TENA, ZUNI and NAVAJO. (In this Report of the 1955 Fallout Symposium it is indicated that no coral was picked up on the deep water shots of Operation CASTLE. Could you confirm this?)

The central problem is to develop a theory or a model of fallout which will explain the facts and enable one to predict the consequences of future tests. This model should cover the period from the explosion

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11-19-86

