

REPOSITORY DOE History Division  
 COLLECTION RG 326, Tommy McCraw, Job # 1320  
 BOX No. 5  
 FOLDER Radiological Survey 411662

R (signed)  
 R Frank A. Camm  
 USAEC  
 FRANK A. CAMM  
 MILITARY APPLICATION  
 GERMANTOWN, MARYLAND

M SEP 13 1972

M. E. GATES, USAEC, NV, LAS VEGAS, NEVADA  
 INFO: LT. GEN. C. H. DUNN, USA, DNA, WASHINGTON, D. C.

SUBJECT: RADIOLOGICAL SURVEY OF ENIWETOK BEST COPY AVAILABLE

PARA. AS A RESULT OF COMMITMENTS MADE BY AMBASSADOR WILLIAMS AND INITIAL AGREEMENTS REACHED DURING AN INTERAGENCY MEETING HELD ON SEPTEMBER 7, 1972, IT IS THE OVERALL AEC PURPOSE TO GAIN A SUFFICIENT UNDERSTANDING OF THE TOTAL RADIOLOGICAL ENVIRONMENT OF ENIWETOK ATOLL TO PERMIT JUDGMENTS AS TO WHETHER ALL OR ANY PART OF THE ATOLL CAN SAFELY BE REINHABITED AND, IF SO, WHAT STEPS TOWARD CLEANUP SHOULD BE TAKEN BEFOREHAND AND WHAT POST-REHABILITATION CONSTRAINTS MUST BE IMPOSED. IT IS NECESSARY TO THOROUGHLY EXAMINE AND EVALUATE RADIOLOGICAL CONDITIONS ON ALL ISLANDS OF THE ATOLL AND IN THE LOCAL MARINE ENVIRONMENT PRIOR TO COMMENCEMENT OF CLEANUP ACTIVITIES IN ORDER TO OBTAIN SUFFICIENT RADIOLOGICAL INTELLIGENCE TO DEVELOP AN APPROPRIATE CLEANUP PROGRAM. SPECIFICALLY, IT IS NECESSARY:

- (1) TO LOCATE AND IDENTIFY CONTAMINATED AND ACTIVATED TEST DEBRIS,
- (2) TO LOCATE AND EVALUATE ANY SIGNIFICANT RADIOLOGICAL HAZARDS WHICH MAY COMPLICATE CLEANUP ACTIVITIES, AND

(CONTINUED) *YMA-7 Trust Secretary*

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- (3) TO IDENTIFY SOURCES OF DIRECT RADIATION AND FOOD CHAIN-TO-MAN PATHS HAVING RADIOLOGICAL IMPLICATIONS.

PARA. YOU ARE DIRECTED TO PLAN, ORGANIZE, AND CONDUCT A RADIOLOGICAL FIELD SURVEY TO DEVELOP SUFFICIENT DATA ON THE TOTAL RADIOLOGICAL ENVIRONMENT OF ENIWETOK ATOLL TO PERMIT THE ASSESSMENTS ON WHICH THE JUDGMENTS DESCRIBED ABOVE CAN BE MADE. THIS SURVEY SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE UPON COMPLETION OF THE NECESSARY PLANNING AND COORDINATION. IT SHOULD CONSIDER THE TOTAL ENVIRONMENT PERTINENT TO REHABILITATION INCLUDING BOTH EXTERNAL RADIATION DOSAGE AND BIOLOGICAL FOOD-CHAIN CONSIDERATIONS. IT IS ANTICIPATED THAT TECHNICAL STANDARDS AND REQUIREMENTS WILL BE PROVIDED BY RESPONSIBLE DIVISIONS WITHIN AEC HEADQUARTERS. IT IS UNDERSTOOD THAT PLANNING HAS BEEN INITIATED BY DOS AND DBER IN COOPERATION WITH FIELD ORGANIZATIONS AND SUCH PLANNING WILL SERVE AS THE BASIS FOR A COMPREHENSIVE SURVEY PLAN.

PARA. IN IMPLEMENTATING THE ABOVE OBJECTIVE YOU ARE DIRECTED TO:

- (1) PREPARE A PLAN FOR THE CONDUCT OF RADIOLOGICAL FIELD SURVEY AND ANALYSIS OF SAMPLES OBTAINED UTILIZING NECESSARY LABORATORY AND CONTRACTOR SUPPORT.
- (2) SELECT PERSONNEL NECESSARY TO CONDUCT THE FIELD SURVEY.

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- (3) SELECT LABORATORIES AND PERSONNEL TO ACCOMPLISH THE NECESSARY LABORATORY WORK FOR ANALYSIS OF SAMPLES. THIS TASK INCLUDES ESTABLISHMENT OF PROCEDURES, STANDARDS, AND METHODS FOR CORRELATION OF DATA BETWEEN LABORATORIES. IN THIS CONTEXT YOU SHOULD PROVIDE FOR REVIEW AND REPORTING OF DATA.
- (4) SUPPORT PATHWAY AND DOSE ASSESSMENT ACTIONS WHICH WILL COME UNDER THE OVERALL TECHNICAL DIRECTION OF THE DBER, SUPPORTED BY THE DOS.
- (5) ARRANGE FOR NECESSARY LOGISTIC SUPPORT.
- (6) COORDINATE LOGISTIC SUPPORT REQUIREMENTS WITH THOSE OF THE ENGINEERING SURVEY TO BE CONDUCTED CONCURRENTLY BY DNA.
- (7) DIRECT LIAISON WITH DNA IS AUTHORIZED, AS REQUIRED, KEEPING COGNIZANT AEC HEADQUARTERS DIVISIONS ADVISED.
- (8) PENDING FURTHER GUIDANCE YOU ARE DIRECTED TO ADDRESS CONSIDERATIONS OF PRIORITY IN PLANNING FOR SAMPLE ANALYSIS AND FOR THE BIOLOGICAL PATHWAY AND DOSE ASSESSMENT PORTIONS OF THIS TASK. IT IS ANTICIPATED THAT A REVIEW OF THE SURVEY WILL BE CONDUCTED UPON COMPLETION OF THE FIELD EFFORT AND BY THAT TIME MORE DEFINITIVE GUIDANCE WILL BE FORTHCOMING ON PRIORITIES IN THE AREAS OF ANALYSIS AND ASSESSMENT.

PARA. YOU ARE AUTHORIZED TO EXPEND \$150 K IN THE INITIAL PLANNING AND ORGANIZATION OF THIS SURVEY. INITIALLY THE COST OF PERFORMING THIS EFFORT SHOULD BE CHANGED TO THE ON-CONTINENT PROGRAM. FOR YOUR INFORMATION, THE GENERAL MANAGER HAS APPROVED ALTERNATIVE 2 OUTLINED IN THE CONTROLLER'S

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MEMORANDUM DATED AUGUST 28, 1972, AND WE ARE CURRENTLY WORKING OUT FUNDING ARRANGEMENTS FOR THE ENTIRE SURVEY. YOU WILL BE KEPT ADVISED.

MA:T:WWG:256-1.

Distribution:

- so: TWX Room
  - cc: DOS
  - cc: DBER
  - cc: WMT
  - cc: OGC
  - cc: OIS
  - cc: OC
  - cc: MA:PA&B
  - 6cc: Std DMA
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- Revised 9/14/72*

Not Dispatched by  
DMA Records Section

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| OFFICE ▶  | MA:TESTS <i>WGT</i> | MA:PA&B <i>W</i>   | DOS <i>JK</i> | DBER <i>143</i> | OC <i>W. Jaffrey</i> | AGMMA  |
| SURNAME ▶ | WWGay/jm            | <i>(Signature)</i> |               |                 |                      | FACamm |
| DATE ▶    | 9/12/72             | 9/12/72            | 9/13/72       | 9/13/72         | 9/13/72              | 9/ 172 |



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON, D.C. 20545

AUG 10 1972

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*Gen Comm info. C*

Chairman Schlesinger  
Commissioner Ramey  
Commissioner Larson  
Commissioner Doub  
Commissioner Ray

*✓ Captain Gay*  
*Mr. Carlson*  
*Mr. ...*  
*Major Fava*  
*Major Gother*  
*Mr. Little*  
*✓ CDR W. FFW*

*Please file*

THRU: General Manager

AEC-DOD SURVEY AT ENIWETOK ATOLL *by J. A. ...* AUG 11 1972

During the period July 26, 1972, to August 2, 1972, a joint AEC-DOD team visited Eniwetok Atoll to conduct a survey of those portions of Runit Island which are to be used for a PACE cratering experiment. A thorough radiological survey was made of that portion of the island which will be disturbed by this experiment. Soil samples were taken in the expected crater area. In addition, a survey for plutonium particles was made along the access road and 22 locations were identified as potential sites for plutonium debris. The results of this survey will be used to determine the precautions required for conducting the PACE experiment as planned, or the necessity for relocating the experiment scheduled for Runit Island.

Along the ocean reef of Runit there is a very large quantity of scrap metal debris covered with water to various depths depending on the tide. This debris resulted from the tests on Runit. Some of it was blown onto the reef by these tests. Some was pushed onto the reef during cleanup operations in preparation for other tests. Much of the debris is metal scrap remaining from the complex diagnostic experiments conducted during the LACROSSE event, which was a surface burst. A spot check of one pile indicated that the debris is contaminated to levels that would require removal in a subsequent cleanup operation. Experience with similar scrap at Bikini suggests that materials blown onto the reef will also be contaminated.

It is expected that the quarantine on Runit will remain in effect until AEC and DOD have reached agreement on the plans and precautions that are needed. The PACE staff is drafting a report, for AEC consideration, of the survey and remedial actions necessary to continue the PACE experiment on Runit.

AUG 10 1972

This memorandum has been coordinated with the Assistant General Manager for Military Application.

ORIGINAL SIGNED BY  
MARTIN B. BILES

Martin B. Biles, Director  
Division of Operational Safety

bcc: GM (2)  
AGMES  
AGMMA - ~~\_\_\_\_\_~~  
SECY (2)  
Dir. REG

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| OFFICE ▶  | OS:NEES.....             | OS:ADHP..... | OS:D.....    | DMA.....    |  |  |
| SURNAME ▶ | TFun<br>TMcCraw/mch..... | LJDeal.....  | MBBiles..... |             |  |  |
| DATE ▶    | 8/9/72.....              | 8/9/72.....  | 8/9/72.....  | 8/9/72..... |  |  |