

program at Enewetak has reached the point where we need to begin preparing the final post cleanup dose assessment for the returning people. At the November-December 1978 meeting on Enewetak Atoll, it was clear that additional data on radioactivity in soils will be needed before we can advise DOI on the coconut planting issue, and before a meaningful reassessment of the radiation dose should there be a resettlement of Enjebi. These data can only be obtained through a program of soil sampling and analysis.

The Nevada office and LLL have made a proposal to us (enclosed) for collection and analysis of the required soil samples. The proposed schedule would permit us to meet the commitment to have an Enjebi dose assessment in time for discussion with the people during the forthcoming on-atoll meeting in May 1979.

As you will note, the enclosed TWX stresses the need for DNA support of this soil sampling effort. I realize that a reallocation of some DCD resources to assist with this DOE task will be needed and understand that there is a

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Deputy Assistant Secretary
for Environment

Enclosure:
As stated

cc: R. C. Clusen, ASEV
R. Van Cleve, DOI
M. Gates, NV

U.S. DEPT. OF ENERGY

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P 102130Z JAN 79

FM USDOE/NV MAHLON E GATES MGR LAS VEGAS NV

TO RHEGWDC/USDOE RUTH CLUSEN ASST SEC FOR ENVIRONMENT (EV-1) WASH DC

INFO RHEGGTN/USDOE L J DEAL (EV-73) GERMANTOWN MD

RHEGGTN/USDOE T F MC CRAW (EV-737) GERMANTOWN MD

RHEGLLL/W L ROBISON LLL LIVEHMORE CA

RUHHDNA/USDOE ERSP MGR ENEWETAK MARSHALL ISLANDS

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UNCLASSIFIED/N O N W D/NARR. SECTION 1 OF 2.

SUBJECT: EXPANSION OF FISSION PRODUCT DATA BASE - ENEWETAK ATOLL (RE L. J. DEAL'S TWX TO ME 291515Z NOV 78, SAME SUBJECT).

AS REQUESTED IN REFERENCED TWX, ERSP MANAGEMENT STAFF AND CONTRACTOR REPS HAVE MET WITH BILL ROBISON. DISCUSSIONS HELD AT THIS MEETING GUIDED DEVELOPMENT OF THE PROPOSED COURSE OF ACTION OUTLINED BELOW, WHICH I RECOMMEND DOE PURSUE. LET ME SAY AT THE OUTSET, HOWEVER, THAT THIS RECOMMENDED COURSE OF ACTION IS A NEW TASK, YET TO BE ASSIGNED TO NV AND THEN TO THE ERSP. IT MUST BE APPRECIATED THAT THE DEPT OF ENERGY DOES NOT HAVE AT ENEWETAK THE CAPABILITY TO TAKE SOIL SAMPLES OR EVEN TO GET FROM

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WHAT WAS CONTEMPLATED UNDER PAR 20 HAS CONTINUED _____
SUPPORT FOR OTHERWISE SELF-SUFFICIENT ON-GOING DOE PROGRAMS.

I WOULD APPLAUD THE ASSIGNMENT TO ERSP OF THE TASK OF SUPPORTING
ROBISON WITH NEEDED DATA. WITH THAT ASSIGNMENT WOULD HAVE TO COME
AN ASSIGNMENT TO THE JOINT TASK GROUP AND ITS SERVICE ELEMENTS TO
PROVIDE THE REQUISITE SUPPORT. OTHERWISE, IT WOULD HAVE TO
BE RELEGATED TO VERY LOW PRIORITY WITH SOME QUESTION AS TO ITS
GETTING DONE AT ALL.

I STRONGLY BELIEVE THAT IF THE DEPARTMENT IS GOING TO MEET THE
RECENT COMMITMENTS MADE, HE MUST GET THE DIRECTOR, DNA, TO ACKNOWLEDGE
THE EFFORT, ENDORSE IT, AND PLEDGE JTG SUPPORT.

FOLLOWING IS A BRIEF OUTLINE OF QUESTIONS, DECISIONS AND
OPERATIONAL NEEDS TO ACCOMPLISH MY RECOMMENDED COURSE OF ACTION WHICH
I THINK WE CAN HANDLE, GIVEN THE ABOVE.

BE POSSIBLE, HOWEVER, WITH PRIORITY SUPPORT, TO FINISH THE DATA BASE FOR JANET IN SUFFICIENT TIME FOR ROBISON TO MAKE A LIMITED DOSE ASSESSMENT BY THE MAY TIMEFRAME.

2. IT IS IMPORTANT TO KNOW IF JANET RECONTOURING (ADDITIONAL SIGNIFICANT EARTH MOVING FOR WHATEVER REASON) IS PLANNED IN CONCLUDING JANET CLEANUP OPERATIONS. IF THIS IS SIGNIFICANT, IT WOULD HAVE TO BE DONE IN THE NEXT FEW WEEKS. ERSF MANAGEMENT IS INVESTIGATING THIS PROBLEM.

3. PROFILE SAMPLING WOULD BE PERFORMED ON A FIFTY METER GRID.

AFTER SOME DISCUSSION, IT SEEMED A VERY GOOD IDEA TO COLLECT THE PROFILES ON THE FIFTY METER GRID WHILE RESOURCES WERE AVAILABLE ON-ISLAND. THIS WILL THEN ALWAYS GIVE US THE CAPABILITY TO EXTRACT FROM THE LIBRARY SAMPLES FOR ANALYSIS, IF REQUIRED. INITIALLY, SAMPLE ANALYSIS WOULD BE ON PROFILES FROM A ONE HUNDRED METER GRID. EVEN THOUGH SOMETHING MORE THAN A ONE HUNDRED METER GRID MAY BE POSSIBLE FOR THE AGRICULTURE ISLANDS, IT WOULD BE PRUDENT TO HAVE IN HAND PROFILES COLLECTED ON A FIFTY METER GRID FOR THE NORTHERN

ISLANDS LESS ALICE THRU DAISY. WE WOULD PROPOSE THAT, RATHER THAN SENDING SAMPLES TO LLL AFTER LAB CLOSEDOWN AT EA, THE SAMPLES REMAIN IN THE ERSP SYSTEM (I.E., LIBRARY.), WE CONTRACT TO EIC FOR ANALYSIS AS WE HAVE QA, DATA PROCESSING, AND MOMENTUM GOING. THIS WILL LESSEN CONFUSION WITH LLL'S HANDLING OF THE THIRTEEN ATOLL SURVEY SAMPLES. ROBISON DESIRES NV PUBLISH A REPORT OF ANALYSIS (E.G., APPENDIX TO CLEANUP REPORT) WHICH HE CAN THEN REFERENCE AS NECESSARY FOR DOSE ASSESSMENT. ROBISON WOULD SERVE AS ADVISOR DURING SAMPLE COLLECTION AND ANALYSIS BUT WOULD NOT HAVE HEADACHES OF ADMINISTERING ANOTHER LARGE SAMPLE COLLECTION AND ANALYSIS PROGRAM.

4. SAMPLING PROTOCOL WOULD UTILIZE A BACKHOE AND SIDEWALL SAMPLING IN THE SAME MANNER ROBISON HAS USED THROUGHOUT THE MARSHALLS FOR PROFILING. BILL WILL SEND A TECH TO WORK WITH AN ERSP CREW FOR ONE WEEK.
5. SAMPLE LABELING, LOGGING, PREP AND DATA REPORTING WILL BE AS PER ERSP PROCEDURES. WE PLAN TO VARY DATA OUTPUT TO MATCH LLL FORMAT.
6. LEVEL OF SENSITIVITY (SAMPLE ANALYSIS) WAS SETTLED ON AT ONE

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PICG-CURIE PER GRAM FOR STRONTIUM-90 WHICH EIC BELIEVES CAN BE ACCOMPLISHED WITH A TWENTY MINUTE COUNTING TIME USING THE DOE EQUIPMENT.

7. DATA PROCESSING NEEDS FURTHER IN-DEPTH DISCUSSIONS--

WE TENTATIVELY HAVE SET A TIME IN EARLY JANUARY IN

LAS VEGAS.

8. BECAUSE OF THE MAY COMMITMENT AND THE CURRENT AND

ANTICIPATED WORKLOAD AT THE AOMON CRYPT, EIC RECOMMENDED

AN ADDITIONAL EIC SAMPLING SUPERVISOR FOR THIS JOB. EVEN

WITH AN ADDITIONAL EIC MAN, ERSP WILL NEED TO LOOK

CAREFULLY AT OVERALL MANPOWER REQUIREMENTS.

9. EIC COST ESTIMATES FOR THE ADDITIONAL MAN, SUPPLIES,

MATERIALS, AND EQUIPMENT NEEDED ARE TWELVE HUNDRED AND

NINETY-TWO DOLLARS PER WEEK FOR TECH; TWENTY-EIGHT THOUSAND

AND FOUR HUNDRED AND TWENTY DOLLARS FOR TWENTY-TWO WEEKS

(JUNE 30, 1979); TWENTY-TWO HUNDRED DOLLARS FOR SUPPLIES;

AND THIRTY DOLLARS PER SAMPLE FOR STRONTIUM-90 PERFORMED AT

ALBUQUERQUE. THE ALBUQUERQUE WORK MAY BE NECESSARY TO SPEED

UP SAMPLE THROUGHPUT DEPENDING ON THE SUPPORT WHICH DICTATES

COLLECTION OF SAMPLES IN A TIMELY FASHION.

ANALYSIS AT ALBUQUERQUE. CESIUM-137 WILL NEED TO BE DONE ON ISLAND UNLESS WE SHIP DETECTORS AND ANALYZERS TO ALBUQUERQUE FOR EIC USE AFTER JUNE 30. ESTIMATE APPROXIMATELY FIVE HUNDRED AND SIXTY CORES IRENE THRU WILMA LESS JANET AND YVONNE. THIS TRANSLATES TO APPROXIMATELY THIRTY-FOUR HUNDRED SAMPLES WHICH IF WE ANALYZE ON A ONE HUNDRED METER GRID WOULD COST APPROXIMATELY TWENTY-EIGHT THOUSAND DOLLARS (90 SR ANALYSIS ONLY) AT ALBUQ. WE SHOULD PUSH TOWARDS SAMPLE COLLECTION, PREP AND GAMMA SCAN ON ISLAND, LIBRARY, AND SHIP SAMPLES TO CONUS, THEN ANALYZE FOR STRONTIUM-90 AT ALBUQ. EIC BELIEVES THEY CAN ANALYZE APPROXIMATELY ONE HUNDRED AND TWENTY-FIVE SAMPLES PER WEEK FOR STRONTIUM-90. THIS MEANS SOMETIME AUTUMN 1979 ALL SAMPLES COULD BE COMPLETED ON A ONE HUNDRED METER GRID BASIS.

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10. SURVEYORS TO REPLACE MISSING STAKES AND REESTABLISH GRIDS WILL NEED TO BE TURNED ON IN EARLY JANUARY WITH SOME PRIORITY. SURVEYORS ON SITE ARE CRITICALLY SHORT, AND JTG IS NOT AT ALL OPTIMISTIC ABOUT OBTAINING ADDITIONAL ARMY RESOURCES. WE MAY NEED TO CONTRACT OUR OWN SURVEYORS IF THE MILITARY CANNOT PROVIDE TIMELY SUPPORT TO COMPLETE SAMPLE COLLECTION BY END OF JUNE.
11. BACKHOE AND BOAT SUPPORT WILL BE CRITICAL. WE WILL NEED CONTINUOUS BACKHOE SUPPORT JANUARY-JUNE.
12. THE ERSP MANAGER WILL NEED TO FOLLOW-UP ON HAVING THE MILITARY COMPLETE THE ESTABLISHMENT OF BENCH MARKS ON ISLANDS WHERE

TIMELY RESULTS, IMMEDIATE AUTHORIZATION AND RESOURCE COMMITMENTS ARE
REQUIRED. END

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Reviewed by R. Schmitt Date 4/30/97