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326 US ATOMIC ENERGY COMMISSION

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FOR JOHN C BUGHER DIRECTOR DIVISION OF BIOLOGY AND MEDICINE CIN INFO NORRIS BRADBURY CIN JIG DIVISION FILES CIN W H LANGHAM CIN FROM THOMAS L SHIPMAN MD HEALTH DIVISION LEADER PD WE HAVE LOCAL APPROVAL FOR FOLLOWING PROPOSAL CLN TO COLLECT AND ANALYZE URINE SAMPLES FROM NATIVES AND AIR WEATHER SERVICE PERSONNEL PD REASONS CLN TO CORRELATE WITH DATA COLLECTED AT GREENHOUSE AND UK ON MICE AND MONKEYS IN DETERMINING THE RELATIVE EXTERNAL AND INTERNAL HAZARDS OF RADIOACTIVE DEBRIS FROM ATOMIC BOMBS PD IN VIEW OF THE EXTENSIVE EXPERIENCE OF THIS LABORATORY IN METHODOLOGY OF THIS PROBLEM AND THE AVAILABILITY OF TRAINED PERSONNEL AND FACILITIES PLUS LIAISON WITH THE RADIOCHEMICAL GROUP OF THE TEST DIVISION CIN IT IS BELIEVED THAT A MAXIMUM OF INFORMATION CAN BE ACCUMULATED WITH A MINIMUM OF EFFORT PD IN VIEW OF THE CLOSE SIMILARITY OF THIS SITUATION TO THE CONTEMPLATED PROBLEMS IN OPERATION GABRIEL AN INTENSIVE EFFORT TO OBTAIN ALL POSSIBLE DATA SEEMS JUSTIFIED PD PROPOSED EXPERIMENTS CLN ONE PD URINE COLLECTION PD ABEL PD TWO CONSECUTIVE TWO FOUR HOUR URINE SAMPLES WILL BE COLLECTED FROM EACH OF THE AIR WEATHER SERVICE PERSONNEL INVOLVED PD END OF PAGE ONE

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PAGE TWO UNFJA ROTA[redacted]

BAKER PD TWO CONSECUTIVE TWO FOUR HOUR POOLED URINE SAMPLES WILL BE COLLECTED FROM ABLE GROUP OF EXPOSED NATIVES PD IT IS DESIRED TO HAVE A TOTAL VOLUME OF TEN LITERS PER SAMPLE PD TWO PD URINE ANALYSIS PD ABLE PD ANALYSIS FOR BARIUM LANTHANUM AT THIS TIME PD THESE NUCLIDES ARE THE MOST ABUNDANT OF THE FISSION PRODUCTS PD THE CHEMICAL METHOD IS STANDARD AT THIS LABORATORY AND FORTUNATELY THESE NUCLIDES ARE VERY IMPORTANT FROM THE POINT OF VIEW OF INTERNAL HAZARD PD BAKER PD ANALYSIS FOR PLUTONIUM PD THE METHOD IS STANDARD PD PU IS VERY IMPORTANT IN ANY CONSIDERATION OF INTERNAL HAZARD PD FROM BOTH OF THESE MEASUREMENTS AND FROM DATA FROM THE RADIOCHEMICAL GROUP INFORMATION CAN BE PUT IN TERMS OF BOMB FRACTION PD CHARLIE PD ON THE BASIS OF THE ABOVE DATA FURTHER ANALYSES CAN BE MADE OBTAINING INFORMATION ON FRACTIONATION AND UPTAKE PD THESE WOULD POSSIBLY INCLUDE MOLYBDENUM AND CERTAINLY AT LATER TIMES CMM STRONTIUM PD DOG PD A SPOT ANALYSIS FOR GROSS FISSION PRODUCT ACTIVITY WOULD BE MADE BY THE USE OF THE ARM COUNTER BY PLACING THE ENTIRE URINE SAMPLE IN THE COUNTER PD ONE MAN WILL BE SENT WITH END OF PAGE TWO

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NECESSARY EQUIPMENT TO KWAJALEIN TO MAKE THE URINE COLLECTION AND TO COURIER THE SAMPLES BACK TO LOS ALAMOS PD IT IS IMPERATIVE THAT THIS INDIVIDUAL HAVE AUTHORITY TO MAKE SUCH COLLECTIONS FOR THE PURPOSES NOTED ABOVE AND TO HAVE FULL SUPERVISION OVER THE COLLECTION PD IT IS NECESSARY BECAUSE OF TIME SINCE EXPOSURE CMA RADIOACTIVE DECAY AND EXCRETION RATES THAT THE COLLECTION BE DONE AS SOON AS POSSIBLE PD IT IS PREFERRED THAT THE SAMPLES BE BACK AT LOS ALAMOS BY THE SEVENTEENTH OF MARCH TO START ANALYSIS OPD WE WOULD ALSO LIKE YOUR BLESSING ON THIS PROJECT AND REQUEST THAT YOU ADVISE KRONKITE OF YOUR APPROVAL OF THIS PROJECT PD WITH HIS COLLABORATION IN OBTAINING THE SAMPLES WE SHOULD NOT INTERFERE ANY FURTHER WITH HIS WORK ALTHOUGH WE WOULD BE HAPPY TO OFFER HIM ANY ASSISTANCE THAT MIGHT BE REQUIRED PD PAYNE HARRIS AND ITEM EXPECT TO LEAVE FOR KWAJALEIN ABOUT THE END OF THE WEEK PD REF CLN ONE ZERO NINE PD END OF MESSAGE

CCC SIXTH WORD SEVENTH TO LAST LINE SHUD READ PD RPT PD

11/0010Z

PARAPHRASE NOT REQUIRED
ACCOUNTABILITY REQUIRED AS PER CM-SEC-5

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