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FOR JOHN C BUCHER DIRECTOR DIVISION OF BIOLOGY AND MEDICINE CMI  
 INFO NORIS BRADBURY CMI JIG DIVISION FILES CMI W H LANGHAM CMI  
 FROM THOMAS L SHEPTAN 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 CMI 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 207A [REDACTED]

BAKER PD TWO CONSECUTIVE TWO FOUR HOUR POOLED URINE SAMPLES WILL BE COLLECTED FROM A BLE 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 CSM 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 FACILITATE THE COLLECTION AND TO  
CARRY THE SAMPLES BACK TO LOS ALAMOS PD IT IS OPERATIVE 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 C/N RADIOACTIVE DECAY AND  
EXCRETION RATES THAT THE COLLECTION BE DONE AS SOON AS POSSIBLE PD IT  
IS PREFERRED THAT THE SAMPLES BE BACK IN THE HANDS BY THE SEVENTEENTH  
OF MARCH TO START ANALYSIS OPD HE WOULD ALSO LIKE YOUR ASSISTANCE IN 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 HE WOULD BE HAPPY TO  
OFFER HIM ANY ASSISTANCE THAT MIGHT BE REQUIRED PD PAYNE HARRIS AND  
ITEM EXPECT TO LEAVE FOR KUAJALEIN 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  
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LANL R.

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