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FM LOS ALAMOS SCIENTIFIC LAB LOS ALAMOS NMEX  
TO USAEM WASHDC

RE: [REDACTED]  
This document contains information defined  
in the Atomic Energy Act of 1954  
or the regulations promulgated  
thereunder and is intended  
to be controlled.

[REDACTED] R [REDACTED]

FOR JOHN C BUCHER DIRECTOR DIVISION OF BIOLOGY AND MEDICINE FROM  
THOMAS SHIPMAN MD HEALTH DIVISION LEADER PD PD INFORMATION NORRIS  
BRADBURY CMM DIVISION OFFICE PD FOLLOWING INFORMATION IS BOILED DOWN  
VERSION OF WHAT WE HAVE RECEIVED HERE WITH SOME OF OUR THOUGHTS AS TO  
WHAT IT MEANS PD PARTY REMAINING ON NAN NOTICED RADIATION LEVEL RISING  
AT HOW PLUS TWO ZERO MINUTES WE UNDERSTAND THIS LEVEL REACHED FOUR ZERO  
R PER HOUR AND POSSIBLY HIGHER PD RAPIDITY OF ARRIVAL OF ACTIVITY WOULD  
INDICATE SOME MECHANISM OTHER THAN WIND BORNE FALLOUT PD PARTY ON NAN  
REMAINED IN BUILDING AND WERE EVACUATED HOW PLUS ONE ZERO PD HELICOPTER  
SURVEY AT HOW PLUS FOUR SHOWED FOLLOWING LEVELS IN R REPEAT R PER HOUR  
CLN FROM TWO FIVE FOOT ALTITUDE CMM TARE ZERO POINT FOUR SMCLN SUGAR ONE  
POINT FIVE SMCLN OBOE THREE POINT FIVE SMCLN NAN ONE ZERO SMCLN FROM  
ONE ZERO ZERO FEET ALTITUDE CMM GEORGE FIVE ZERO SMCLN FOX THREE  
SMCLN DOC ONE SMCLN FROM TWO ZERO ZERO FOOT ALTITUDE CMM CHARLEY ONE  
ZERO PD PARTY LANDED ON DOC AT HOW PLUS ONE ONE FINDING LEVEL ESTIMATED  
EIGHT ZERO R PER HOUR PD WE UNDERSTAND THAT MOST OF THE SHIPS EXPERIENCED  
MODERATE FALLOUT BUT HAVE NO NUMBERS PD WE HAVE NO RESULTS TO INDICATE  
END OF PAGE ONE

CLASSIFICATION CANCELLED  
OR CHANGED TO  
BY AUTHORITY OF DOE/DPG  
REVIEWED BY [Signature] DATE 7/7/85

PAR [REDACTED] TIRE  
HANDLE AS [REDACTED] RESPONSE

R

[REDACTED]

PAGE TWO HWOJA 021A

RATE OF DECAY ON ATOLL PARA THE FALLOUT TRAVELED ON AN APPROXIMATE LINE FROM BIKINI TO BIKAR ATOLLS AND WAS REPORTED APPROXIMATELY TWO ZERO ZERO MILES SOUTH OF HAWAII AT HOW PLUS FIVE SIX WITH INTENSITY OF APPROXIMATELY ZERO POINT ZERO FOUR MR PER HOUR BETWEEN TWELVE AND TWO NINE ZERO ZERO ZERO FEET PD READING AT RONGELAP AT HOW PLUS THREE SIX REPORTED AS ONE POINT FOUR R PER HOUR PD IT WAS ASSUMED THAT FALLOUT STARTED AT RONGELAP AT HOW PLUS EIGHT HOURS PD NATIVES WERE EVACUATED BY HOW PLUS FIVE ONE PD THREE MEMBER USAF WEATHER DETACHMENT RONGERIK RECEIVED ESTIMATED DOSE NINE EIGHT R ON BASIS OF ONE FILM BADGE SMCLN THESE PEOPLE LIVED IN TENT PD FOUR FILM BADGES REPRESENTING REMAINDER OF PERSONNE IN METAL BARRACKS AVERAGED FOUR FOUR R PD WEATHER DETACHMENT EVACUATED HOW PLUS THREE SIX PD AERIAL SURVEY OF UTIRIK AT APPROXIMATELY HOW PLUS THREE FOUR INDICATED GROUND READING OF ZERO POINT SIX R PER HOUR PD NATIVES FROM UTIRIK EVACUATED BY HOW PLUS SEVEN EIGHT WITH ESTIMATED DOSE ONE SEVEN R PARA IT WOULD APPEAR THAT THE WEATHER PLAYED A DIRTY TRICK AS WE HAVE SEEN IN THE

END OF PAGE TWO

[REDACTED]

PAGE THREE 02TA

PAST PD WE FEEL IT QUITE IMPORTANT TO DO URINE ASSAYS FOR PLUTONIUM  
ON REPRESENTATIVE OF THE GROUPS RECEIVING THE HIGHER EXPOSURES PD THIS  
SHOULD GIVE VALUABLE DATA AS TO RATIO BETWEEN INTERNAL AND EXTERNAL  
HAZARDS PD WE WOULD LIKE TO DO SOME OF THESE ASSAYS IF WE CAN BE  
FURNISHED TWO FOUR HOUR SPECIMENS PD WE CAN FURNISH LIMITED NUMBER  
ADDITIONAL PERSONNEL IF NEEDED PD I HOPE YOU WILL KEEP ME ADVISED AS  
TO ANY HELP WE MAY OFFER PD WED 10 NOV DASH ONE ZERO SIX END OF MESSAGE

CCC SECOND WORD SIXTH TO LAST LINE SHUD READ REPRESENTATIVEEEEEEE  
REPRESENTATIVES RPT REPRESENTATIVE

10/0214

REC'D 10/0224Z EAF

[REDACTED]