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PRIORITY

1954 MAR 9 PM 9 43

S-02TA -

FM LOS ALAMOS SCIENTIFIC LAB LOS ALAMOS NMEX
TO USAEC WASHDC

[REDACTED] R [REDACTED]

RE: [REDACTED]
This document contains information defined in the Atomic Energy Act of 1954 or the Atomic Energy Act of 1946 or the Atomic Energy Act of 1947 to be of a type which, if disclosed, would be injurious to the national defense.

FOR JOHN C BUCHER DIRECTOR DIVISION OF BIOLOGY AND MEDICINE FROM
THOMAS L SHIPMAN MD HEALTH DIVISION LEADER PD PD INFORMATION NORRIS
BRADBURY CMM J 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 DOG ONE SMCLN FROM TWO ZERO ZERO FOOT ALTITUDE CMM CHARLEY ONE
ZERO PD PARTY LANDED ON DOG 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

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CLASSIFICATION CANCELLED
OR CHANGED TO
BY AUTHORITY OF DOE/DFO
REVIEWED BY [Signature] DATE 2/2/85

PAR [REDACTED] REQUIRED
HANDLE AS [REDACTED] RESPONSE

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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 PERSONNEL 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 IT DO IN THE

END OF PAGE TWO

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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 F NEEDED PD I HOPE YOU WILL KEEP ME ADVISED AS
TO ANY HELP WE MAY OFFER PD REF DLN HOW DASH ONE ZERO SIX END OF MESSAGE

CCC SECOND WORD SIXTH TO LAST LINE SHUD READ REPRESENTATIEEEEEEE
REPRESENTATIVES RPT REPRESENTATIVES

10/0214Z

RECD 10/0224Z EAP

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