DC 58-70

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UNIVERSITY OF CALIFORNIA

RADIATION LABORATORY

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Routing Sheet

ROUTING

NAME	COMMENTS
Mr. G. B. Reynolds	✓
E O Lawrence	✓
J. Cooksey	✓

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NTS

1257854

UC 58-70

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PRIORITY

FM UNIV OF CALIF RADIATION LAB LIVERMORE CALIF

TO DMA USAEC WASHDC /ASSIGN SERIES C/

ATTN B/GEN A D STARBIRD

INFO/USAEC ALOO ALBUQUERQUE NMEX /ASSIGN SERIES D/

ATTN K F HERTFORD

S-1003 58 JAN 150033Z GRNC

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JAN 14 7 27 PM '58

AEC LIVERMORE
TELETYPE ROOM

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THIS DOCUMENT CONSISTS OF 2 PAGES
NO. 2 OF 3 SERIES B.

S E C R E T//RESTRICTED DATA

FROM G W JOHNSON PD CITE CLN COPAA-58-1 PD THE PRESENT STATUS OF RAINIER MAY BE SUMMARIZED AS FOLLOWS CLN THE B HOLE WHICH IS DIRECTED IN A LINE 50 FEET BELOW THE CENTER OF DETONATION HAS REACHED A POINT 257 FEET FROM THE WORKING FACE PD STATION 205 FEET IS DIRECTLY BELOW THE POINT OF DETONATION PD RADIOCHEMICAL SAMPLES HAVE BEEN RECOVERED FROM SEVERAL REGIONS PD THE INDICATED TYPICAL STRENGTH OF THE SAMPLES IS TEN TO THE FIFTEENTH FISSIONS IN ABOUT FIFTEEN GRAMS PD THE MATERIAL HAS BEEN GENERALLY FUZED BUT IS BROKEN UP AND MIXED WITH CRUSHED TUFF PD THERE ARE NO FEW TEMPERATURE RESULTS FOR THIS HOLE PD FROM WHAT WE KNOW NOW THE CORRECTION LINE NINE LAST WORD SHUD READ NEW RPT NEW

INV. FEB 19 1958

CLASSIFICATION ~~CANCELLED OR~~

CHANGED TO Unclassified

BY AUTH. TCG. WT-1 3421/3422.2

BY N E Brodwick ADD DATE 9-14-95

By Dover Moore ADD DATE 9/14/95

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INDEXED - GWJ

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BULK OF THE RADIOACTIVE MATERIAL APPEARS TO LIE IN A REGION FROM A RADIAL DISTANCE FROM ZERO OF 57 FEET INTO ABOUT 50 FET PD IT APPEARS THAT HOLE B PASSED AMOST TANGENTIALLY INTO THE INSIDE OF THE SHELL AND OUT THE OTHER SIDE PD DETAILED SURVEYS OF TEMPERATURE AND RADIATION LEVELS ARE PROCEEDING PD THE HIGHEST TEMPERATURE SO FAR OBSERVED IS 59 DEGREES CENTIGRADE AT A RADIAL DISTANCE OF 52 FEET PD THE PEAK RADIATION LEVEL IS 45 R AS REPORTED PREVIOUSLY PD PARA THE PLAN OF FURTHER STUDY IN NEVADA IS TO EXTEND HOLE C COMPLETELY THROUGH SHELL PD HOLE C IS AIMED AT A POINT 25 FEET BELOW THE POINT OF DETONATION PD AT PRESENT TIME HOLE C IS AT 50 FEET FROM THE WORKING FACE PD IT IS PLANNED TO DRIVE A TUNNEL FROM THE RAINIER TUNNEL DIRECTLY TOWARD GROUND ZERO BUT STOPPING SHORT OF THE RADIOACTIVE ZONE PD THE PURPOSE OF THIS TUNNEL IS TO STUDY IN MORE DETAIL THAN IS POSSIBLE WITH DRILLING TECHNIQUES CMM THE STRUCTURE AND PROPERTIES OF THE MEDIUM SURROUNDING THE POINT OF DETONATION PD AS YOU KNOW CMM THE DRILLING TECHNIQUES DO NOT GIVE STRUCTURE IN LOOSELY CONSOLIDATED MATERIALS SUCH AS WE HAVE SEEN AT RADII NEARER THAN ABOUT 130 FEET PD THE IN SITU PROPERTIES SUCH AS DENSITY AND POROSITY ARE OF INTEREST TO THE ISOTOPE PRODUCTION CMM POWER GENERATION CMM AND MINING STUDIES NOW IN PROGRESS AS PART OF PLOWSHARE PROGRAM PD IN FACT THIS IS THE MOST USEFUL ITEM NOW IN OUR FISCAL 1958 PROGRAM FOR ADVANCING THESE STUDIES PD EXPERIENCE GAINED IN DIGGING THE TUNNEL WILL BE VALUABLE FOR FUTURE TESTING AS WELL AS NON MILITARY APPLICATIONS PD THE COST OF THIS TUNNEL IS ESTIMATED FOR 240 FEET OF TUNNEL TO COST ABOUT $60,000 PD THIS ESTIMATE WAS PREPARED BY THE ARCHITECT ENGINEER BASED ON USING REYNOLDS ELECTRIC EMPLOYEES TO DO THE MINING PD THE FUNDS WILL BE PROVIDED FROM MONEY ALLOCATED TO PLOWSHARE IN THE UCRL BUDGET AND AMOUNTS TO ABOUT 20 PERCENT OF THE PLOWSHARE FUNDS AVAILABLE DURING THE REST OF FISCAL 1958 PD

CORRECTION LINE TWO WORD ELEVEN SHUD READ FEET RPT FEET

LINE THREE WORD FIVE SHUD READ ALMOST RPT ALMOST

END OF MESSAGE

BT

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15/0300Z LIVERMORE CAL 85/RUWPCX ~~SECRET~~