This ~~telegram~~
is Non - POR
as of 2/20/74
per Crocker

A174

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6092342900 TDMT MOORESTOWN NJ 02-20 0906A EDT
PMS 2-032576E050 6173695410 NL TDMT CONCORD MA 2-19 456P EDT
BUD CROCKER USAEC REGULATORY OPERATIONS REGION 1 NTFY ADSEE UPON
RCPT 3371150 WC WU
NORRISTOWN PA 19406
RE OUR TELCON THIS DATE FOLLOWING IN NMI PLAN TO ANALYZE AND SUB-DIVIDE CONTAINERS OF RESIDUAL MATERIAL FROM CLEANUPS OF POWER HACKSAW ONE ANALYZE RESIDUE FROM HACKSAW; INTERIOR SURFACES OF NOW-DRY SUMP MAY CONTAIN MICROGRAM QUANTITIES OF URANIUM SUFFICIENT TO PERMIT ISOTOPIC ANALYSIS FOR ENRICHMENT PROPOSED TO SCRAPE SURFACES SUMP, ANALYZE SAMPLE FOR ENRICHMENT BY BOTH COUNTING AND MASS SPECTROMETRY ADVANTAGE IS PREVIEW OF ENRICHMENT OF URANIUM IN PAILS NO POSSIBLE DISADVANTAGE SINCE SUMP IS DRY AND EVIDENCES IS LOW COUNT OF LESS THAN 5000 DPM ALPHA AND LET

THEM 0.1 MR/HR BETA PLUS GAMMA.

ON RECEIPT AND EVALUATION OF THIS ANALYTICAL DATA, SEPARATE PAILS 1, 2, 3, AND 5 FROM PAIL 4 BY PLACING CADMIUM SHEET BETWEEN PAILS FURTHEST FROM PAIL 4 AND ITS NEIGHBOR THEN MOVING THAT PAIL AT LEST 10 FEET AWAY FROM OTHER PAILS. REPOSITION CADMIUM FOIL BETWEEN NEXT PAIL AND ITS NEIGHBORS MOVING NEXT PAIL MINIMUM 10 FEET AWAY AND 10 FEET FROM FIRST PAIL AND CONTINUING UNTIL PAIL 4 IS STANDING ALONE ADVANTAGES INCLUDE REMOVAL OF SOME 10-20 GALLONS OF MODERATOR SOME 60 GRAMS OF URANIUM SUFFICIENTLY DISTANT SO THERE IS NO INTERACTION WITH PAIL 4, IN SUCH A WAY THAT EACH PAIL IS ISOLATED FROM ITS NEIGHBORS.

3. PIPETTE 10ML AIR MAIL SAMPLES FROM TOP, MIDDLE, AND BOTTOM OF PAILS 1, 2, 3 AND 5, ANALYZE SAMPLE FOR URANIUM, ALL OTHER METALLIC AND NON-METALLIC CONSTITUENTS, DAUGHTER PRODUCTS OF

URANIUM AND ENRICHMENT. PERMIT INDIRECT ASSESSMENT OF SITUATION IN PAIL 4.

4. BASED PM REVIEW OF ABOVE DATA, PUMP OUT PAIL 4 INTO 2 LITER BOTTLES EACH LESS THAN FIVE INCH DIAMETER, OR ALTERNATIVELY LADLE LIQUID INTO SUCH BOTTLES WITH LADLES CONTAINING 500 ML MAXIMUM FILL AND CAP BOTTLES ONE AT A TIME AND PLACE IN SAFE STORAGE AWAY ON 22 INCH CENTER. OPERATIN SUBDIVIDES PAIL 4 INTO SAFE GEOMETRY ELEMENTS AFTER REMOVAL OF OTHER MODERATOR OR REFLECTOR MATERIALS AND ASSOCIATED URANIUM IN OTHER PAILS, WITH MAXIMUM PERSONNEL SAFETY.

5. ANALYZE CONTENT OF EACH BOTTLE AS IN STEP 3 ABOVE, EVALUATE AND REPORT RESULTS TO USAEC, PERMITTING EVALUATION OF SUCH PROCEDURES AND THEIR IMPLEMENTATION AT OTHER SITES

A R GILMAN NUCLEAR METALS 2229 MAIN STCONCORD MA

Received 2/20/74 @ 11 45 A Hwc