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HW--27498

DE93 003433

SPECIAL RE-REVIEW
FINAL DETERMINATION
DECLASSIFICATION CONFIRMED

BY gub Jordan DATE 6-2-81
BY gub Jordan DATE 6-3-81

- #1. - #2. AEC-HOO
- #3. OH Greager-WK Woods
- #4. TW Hauff
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- #7. PH Reinker-AB Carson
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March 24, 1953

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FINAL REPORT ON PT-105-469-P
IRRADIATION OF HEAT TREATED LITHIUM-ALUMINUM SLUGS COPY 1 OF 1, S

OBJECTIVE:

The objective of this Production Test was to irradiate heat-treated lithium-aluminum slugs to exposures greater than the heat-treated metal originally tested. It has been discovered that a sharp separation between tritium and helium could be made when extracting the gases from irradiated heat treated lithium-aluminum alloy by incrementally raising the extraction temperatures and continuously pumping off the liberated gases. It was desired to determine if this effect persisted at higher exposures.

TEST CONCLUSION:

These slugs were discharged at a time when practically all development work had been curtailed in favor of production, and the shut-down of P-10 facilities was imminent. It was decided to extract the material in production lines with no special testing. These slugs were extracted approximately March 24, 1952 with other metal and no special data taken.

PILE ENGINEERING UNIT
ENGINEERING DEPARTMENT

LW Lang/bam

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By Authority of Doc

May 1973

PM Eck 10-27-92
SH. Wells 10-27-92

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