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20 August 1957 L-14834

Dr. C. L. Cowan
Rad-Chem Department
Los Alamos Scientific Laboratory
Los Alamos, New Mexico

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEW-DATE:
AUTHORITY: ☐DC ☐DD
NAME:
2ND REVIEW-DATE:
AUTHORITY: DD
NAME:
DETERMINATION (CIRCLE NUMBER(S))
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO:
3. CONTAINS NO DOE CLASSIFIED INFO
4. COORDINATE WITH:
5. CLASSIFICATION CANCELED
6. CLASSIFIED INFO BRACKETED
7. OTHER (SPECIFY):

Dear Dr. Cowan:

In discussing neutron economics of TN weapons, Carson Mark suggested that I trace the neutron production, capture, and escape in the Mike device. Mike fuel is simpler to calculate than fuels containing Li^6 and may throw some light on salting capabilities.

To balance the neutron economy, I would appreciate your sending me the following information from Mike:

N_p^{239}/fis

U^{240}/fis

U^{237}/fis

plus number of neutrons hitting case or escaping

Fe(r,γ)/fis

Thanks very much.

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEW-DATE: AUG 20 02
AUTHORITY: ☐DC ☒DD
NAME: M. Burkwood
2ND REVIEW-DATE: 8/30/02
AUTHORITY:
NAME: H. P. Schmidt
DETERMINATION (CIRCLE NUMBER(S))
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO:
3. CONTAINS NO DOE CLASSIFIED INFO
4. COORDINATE WITH:
5. CLASSIFICATION CANCELED
6. CLASSIFIED INFO BRACKETED
7. OTHER (SPECIFY):

Sincerely yours,

Benson L. Tucker

Benson L. Tucker
Geophysics
Engineering Division

BLT:cnc

[redacted]

This [redacted] defi[redacted] the Atomic Energy Act of 1954. Unau[redacted] subject to Administrative [redacted]s.

UNCLASSIFIED

[redacted]

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