

UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

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IN REPLY REFER TO

DLR:RLL

70-378

Headquarters, Department of the Army  
Office of the Surgeon General  
Washington 25, D. C.

Attention: Lt. Col. Roswell G. Daniels, MC  
Preventive Medicine Division  
Reference: MEDPS-PC

Gentlemen:

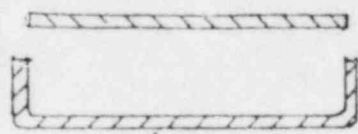
This refers to your letter dated May 31, 1953, requesting amendment to Special Nuclear Material License No. SNM-348, for Harry Diamond Laboratories.

In order to continue the review of your application, we require the following:

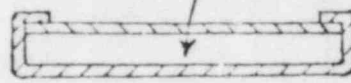
1. A more detailed description of the physical characteristics of these foils including a drawing showing the solder seal and an evaluation of the structural integrity of the seal.
2. The maximum integrated neutron dose to which the foils will be exposed and the maximum radiation intensity (mr/hr) that is expected on the foils.
3. Description of your procedures for removing the irradiated foils from the reactor including survey equipment (type and range) and handling tools.
4. Description of the analytical procedures and equipment involved in handling the irradiated foils including transfer containers and handling tools.
5. Description of the storage area where highly activated foils will be stored for decay.

Very truly yours,

Donald A. Nussbaumer, Chief  
Source and Special Nuclear Materials Branch  
Division of Licensing and Regulation



1 to 2 mil. copper



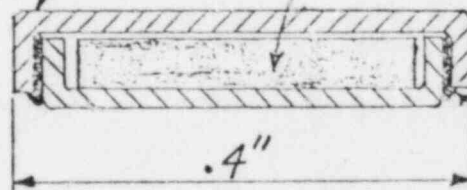
Neptunium-237

container sealed by welding

ITEM-A

5 mil. copper

Neptunium-237,  
Plutonium-239, or  
Uranium-238



container sealed  
by soldering

.4"

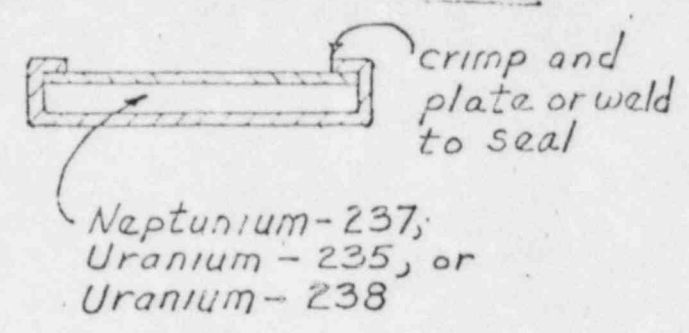
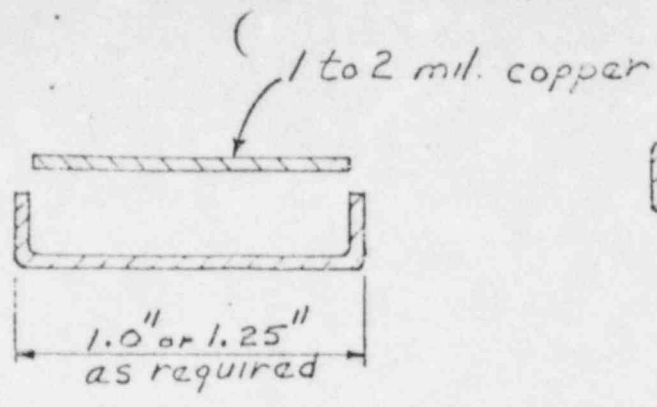
ITEM-B



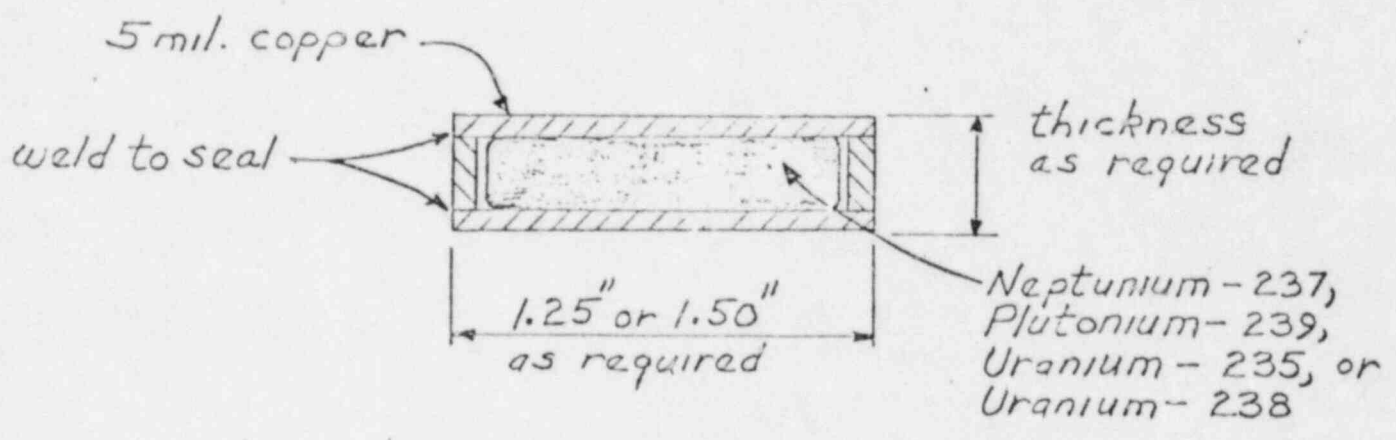
### FISSION FOIL CONTAINERS (EXISTING)

SKETCH SHOWING METHOD OF  
FABRICATION OF CONTAINERS FOR  
FISSION FOILS

Figure 3



ITEM-A



ITEM-B



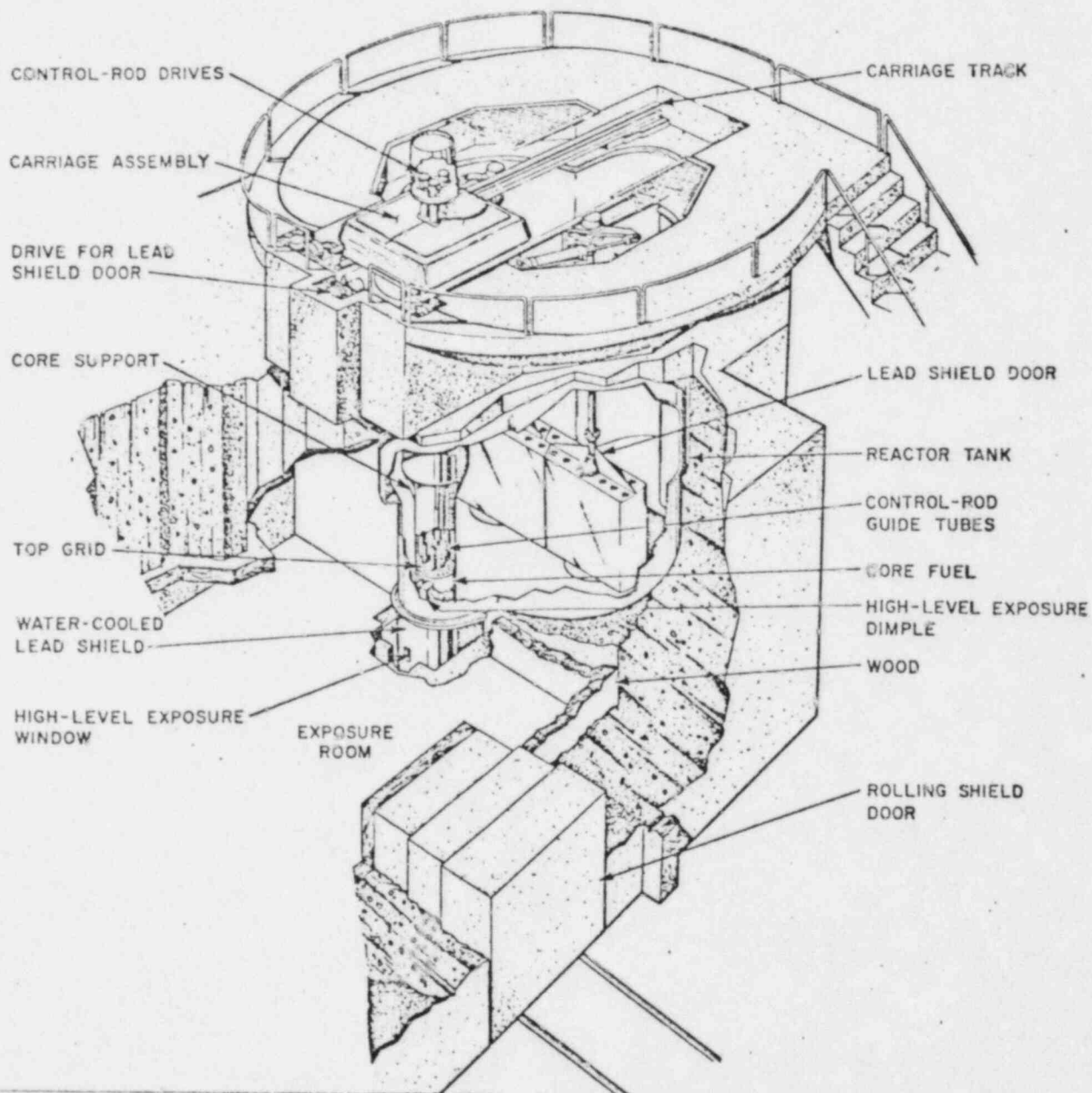
FISSION FOIL CONTAINERS  
(PROPOSED)

SKETCH SHOWING METHOD OF  
FABRICATION OF CONTAINERS FOR  
FISSION FOILS

Figure 4

and 4

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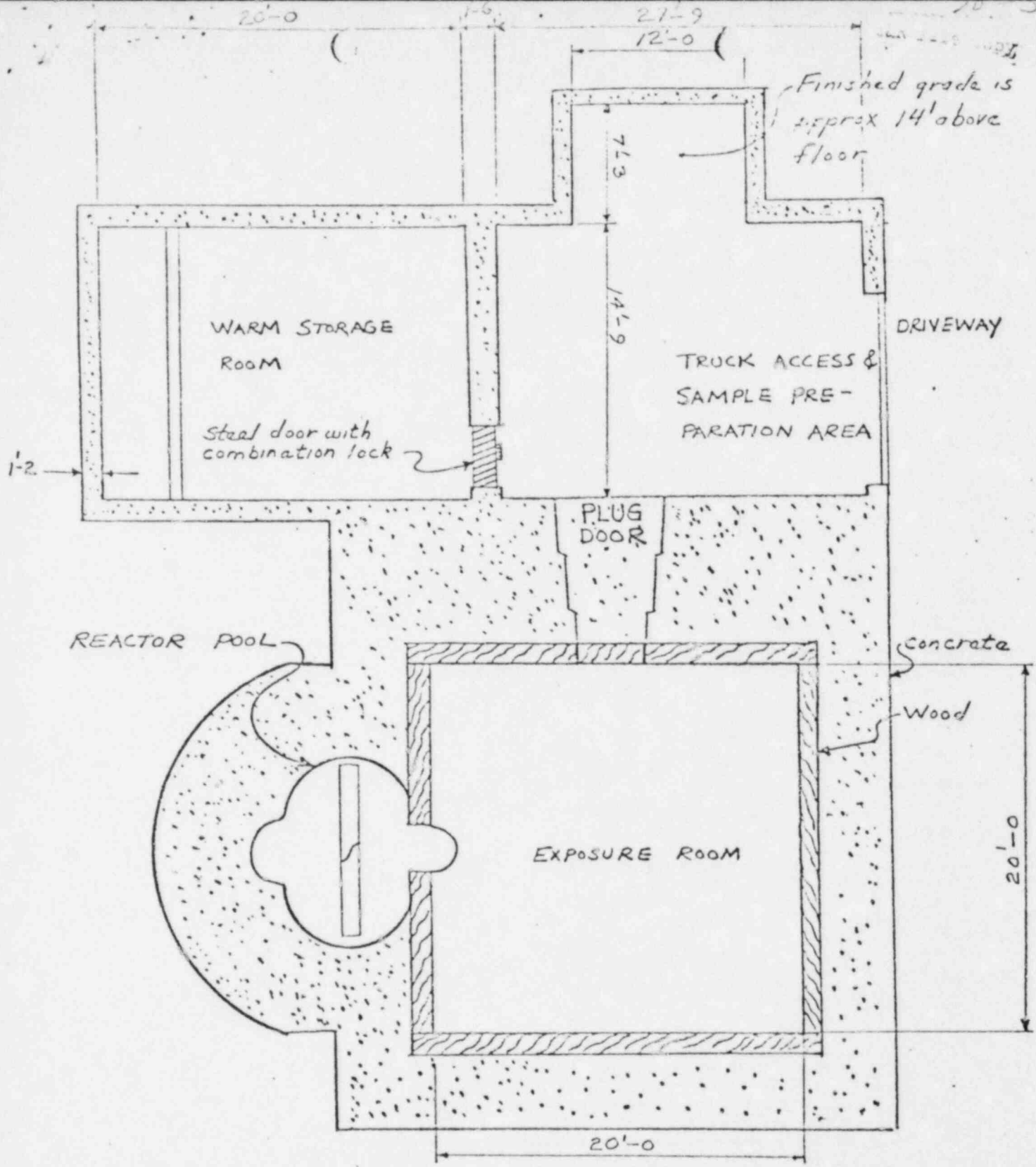


DIAMOND ORDNANCE RADIATION FACILITY TRIGA MARK F REACTOR

PERSPECTIVE VIEW



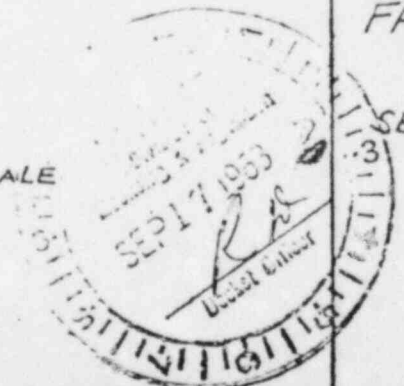
Figure 5



DIAMOND ORDNANCE RADIATION FACILITY TRIGA MARK F REACTOR

SECTION VIEW THRU BASEMENT

NOT TO SCALE



26

Figure 6



HEADQUARTERS  
DEPARTMENT OF THE ARMY  
OFFICE OF THE SURGEON GENERAL  
WASHINGTON 25, D.C.

70-378  
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IN REPLY REFER TO  
MEDPS-PO

17 July 1963

SUBJECT: Amendment to Special Nuclear Material License No. SNM-348

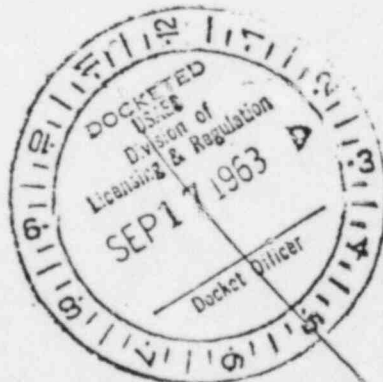
TO: Commanding Officer  
Harry Diamond Laboratories  
ATTN: ORDIL-032  
Washington 25, D. C.

The inclosed copy of a letter from the U. S. Atomic Energy Commission is forwarded for your information and action.

FOR THE SURGEON GENERAL:

1 Incl  
as

ADAM J. RAPALSKI  
Colonel, MC  
Chief, Preventive Medicine Division



*Jul 2*