



**United  
Technologies**

**Research Center**

Date: July 9, 2001

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U.S. Nuclear Regulatory Commission  
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Number of pages (including cover sheet): 6

Subject: Supporting Documents to Registration Certificate NR-655-D-101-S

Per our telecon, enclosed is the November, 26 1990 letter.

Please contact me if you have any questions.

Thank you,  
Glenn Janowsky  
United Technologies Research Center

November 26, 1990

United States Nuclear Regulatory Commission  
Mail Stop 6-H3  
Attention: Mr. John W. Lubinski  
Sealed Source Safety Section  
Medical, Academic, and Commercial Use Safety Branch  
Division of Industrial and Medical Nuclear Safety, NMSS  
Washington, D.C. 20555

Dear Mr. Lubinski:

This is in reference to your letter dated November 7, 1990, requesting additional information pertaining to your review of UTRC's August 16, 1990 application to amend registration certificate NR-655-D-101-S.

I have itemized the information you requested below by numbers conforming to the item sequencing in your letter of November 7, 1990.

1. Figures 1-4 are original and revised drawings of the collimator and collimator holder. The revised collimator assembly has a larger cavity to accommodate the larger Amersham source, and a greater overall length to achieve the same degree of collimation (fig. 1 & 2). The outside diameter remains unchanged at 0.624 inches.

The depth of the collimator cavity in the collimator holder design had to be increased (fig. 3 & 4). This is the only collimator holder modification. The outer dimensions remain unchanged.

2. The maximum activity of the Amersham Model GDCCY1 Gd-153 sealed source is 1 curie, with a manufacturers' tolerance of -20% +0%.



L. L. Packer

United Technologies Research Center  
Radiation Safety Officer  
Chief, Chemical Analysis and Processing

(MATERIAL: TUNGSTEN)



## 1 CURIE SOURCE COLLIMATOR ASSEMBLY

(MATERIAL: TUNGSTEN)

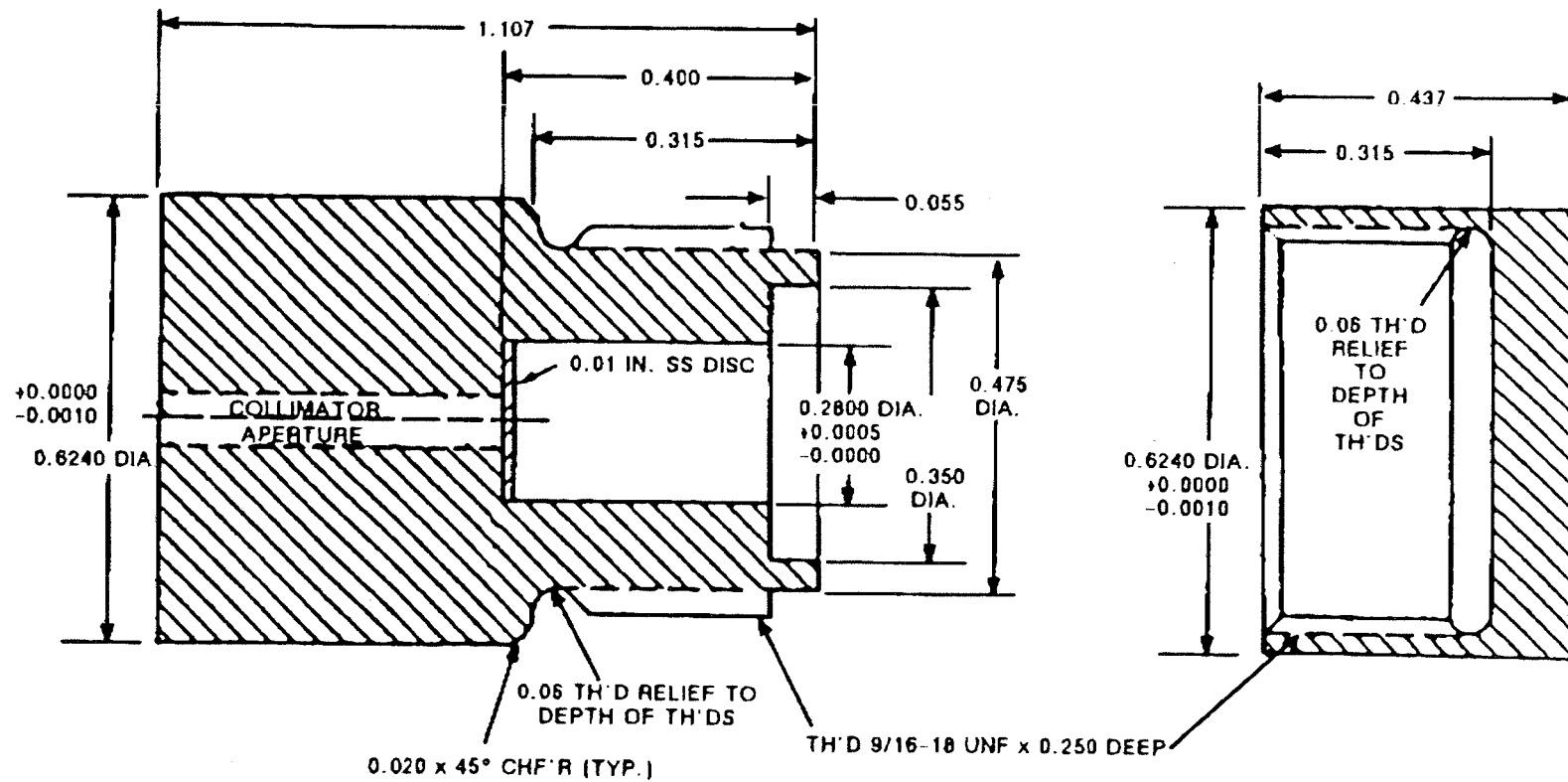


FIG. 2

80-11-41-3

## 350 mCi SOURCE COLLIMATOR HOLDER

(MATERIAL: T316SS)

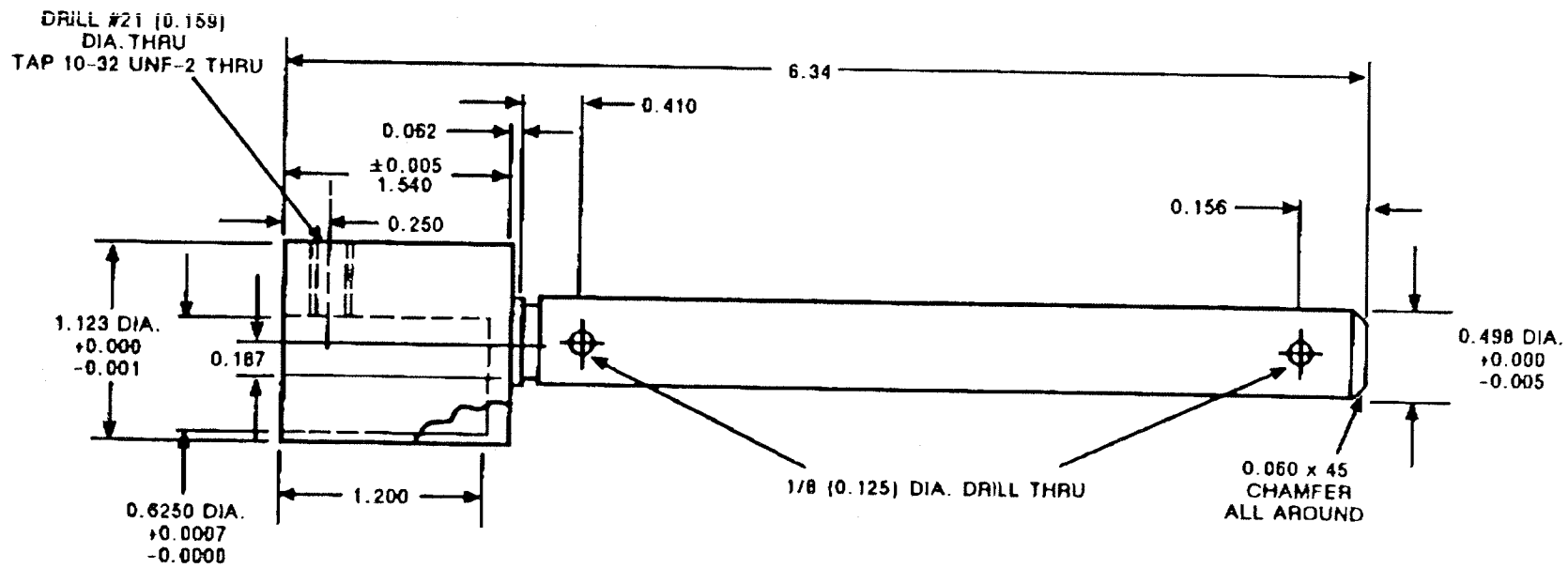


FIG. 3

90-11-41-4

# 1 CI SOURCE COLLIMATOR HOLDER (MATERIAL: T316SS)

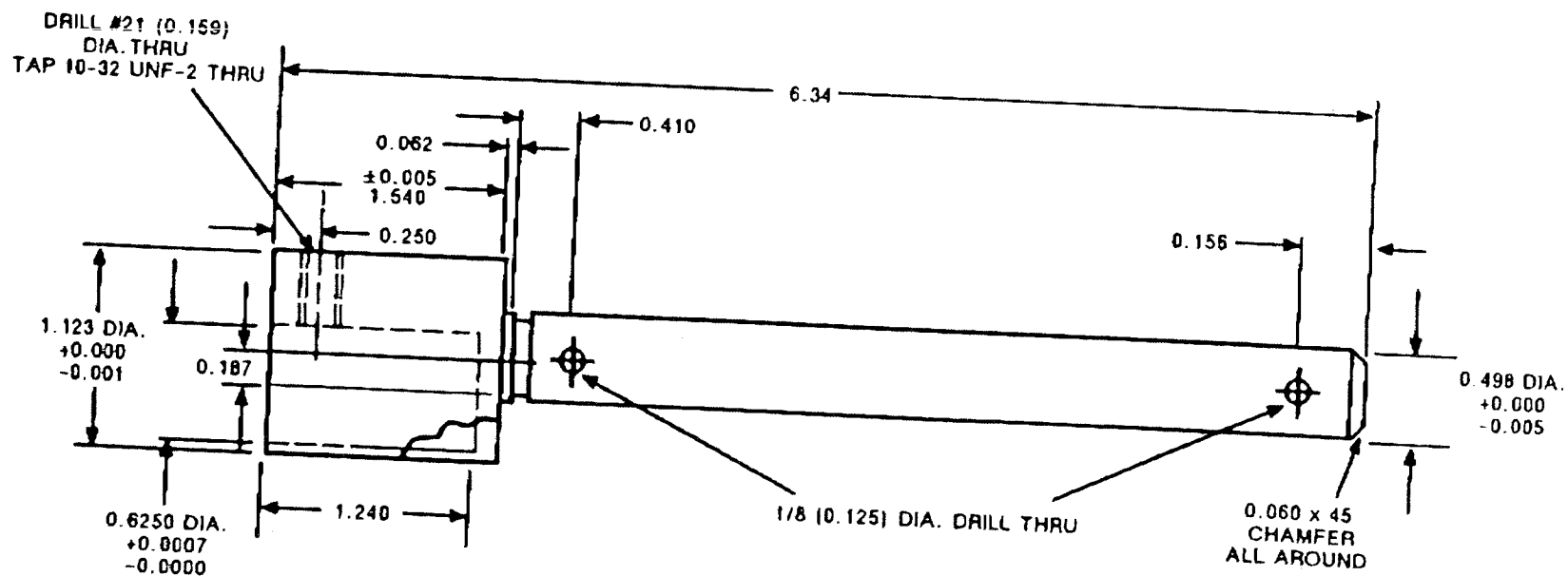


FIG. 4