

Smith
Melton



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh Street, S.W.
Washington, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY

Special Form Radioactive Material Encapsulation

Certificate Number USA/0241/S
Revision 0

This certifies that the encapsulated source, as described, when loaded with the authorized radioactive contents, has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in IAEA 1/ and USA 2/ regulations for the transport of radioactive materials.

I. Source Description - The source described by this certificate is identified as Monsanto Research Corporation Model No. 24128 which is a tungsten-inert-gas welded double encapsulation constructed of 304 stainless steel and measures 2.25" in diameter by approximately .37" in height.

II. Radioactive Contents - The authorized radioactive contents of this source consist of not more than 12 curies of Americium-241 or Plutonium-238 as oxide powder mixed with a neutron production target powder.

III. This certificate, unless renewed, expires December 31, 1986.

This certificate is issued in accordance with paragraph 803 of the IAEA Regulations 1/, and in response to the November 23, 1981 petition by Monsanto Research Corporation and in consideration of the associated information therein.

Certified by:

R. R. Rawl
R. R. Rawl
Chief, Radioactive Materials Branch
Office of Hazardous Materials Regulation
Materials Transportation Bureau

December 28, 1981
(DATE)

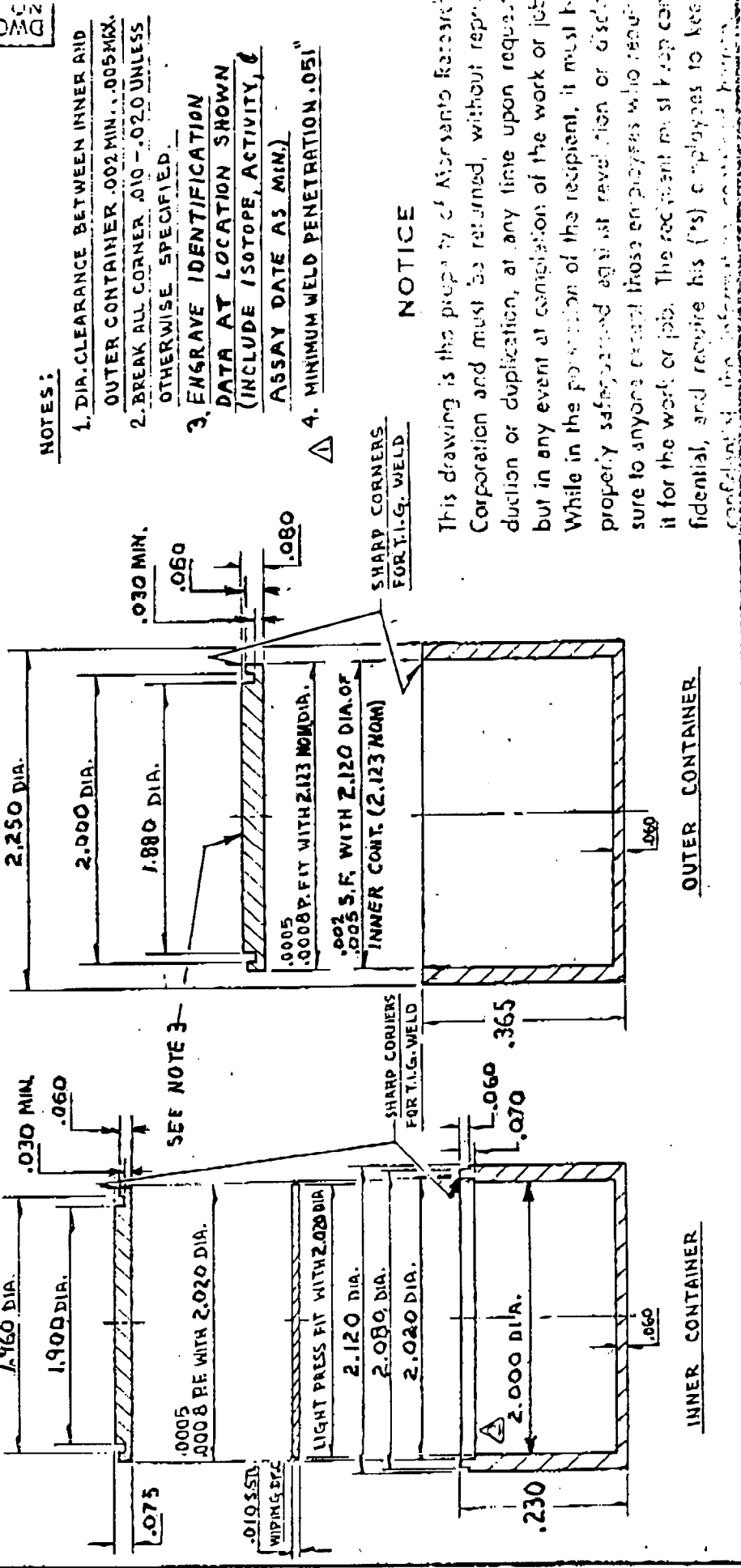
1/ "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1973 Revised Edition", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2/ Title 49, Code of Federal Regulations, Part 170-178, USA.

DWG
CZ

REVISIONS		DATE	APPROVAL
Δ	DE MFG QA	3-17-76	ESQ
Δ	DESCRIPTION	11-4-70	CEK
Δ	DE MFG QA AND MIN WELD PENETRATION ADDED		
Δ	REWORKS TO PERFORM		

RELEASED FOR MANUFACTURING
 For U. O. NO. P22, 2020
 Contract No.
 Date 4-2-78 By JA



NOTES:

1. DIA. CLEARANCE BETWEEN INNER AND OUTER CONTAINER .002 MIN. .005 MAX.
2. BREAK ALL CORNER .010 - .020 UNLESS OTHERWISE SPECIFIED.
3. ENGRAVE IDENTIFICATION DATA AT LOCATION SHOWN (INCLUDE ISOTOPE, ACTIVITY, & ASSAY DATE AS MIN.)
4. MINIMUM WELD PENETRATION .051"

NOTICE

This drawing is the property of Monsanto Research Corporation and must be returned, without reproduction or duplication, at any time upon request but in any event at completion of the work or job. While in the possession of the recipient, it must be properly safeguarded against revelation or disclosure to anyone except those employees who require it for the work or job. The recipient must keep confidential the information contained herein.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES: DECIMALS FRACTIONS ANGLES
 .XX = ± ANGLES ± 30'
 .XXX BASIC 32
 ALL SURFACES 304 S. SIL.
 MATERIAL 304 S. SIL.
 FINISH

APPROVALS:
 DRAPD 3-17-76
 MFGAPD 2-4-74
 DEAPD 2-4-74
 CHECKED
 DRAWN

MONSANTO RESEARCH CORPORATION
 DAYTON LABORATORY
 DAYTON, OHIO

RELEASED FOR MANUFACTURING

NEUTRON SOURCE CONTAINER

REPLACES SKETCH BY E.F.1
 DATED 1-3-72, REV. 2
 (019-3A1-A)

A 24128 - A A00

RELEASED FOR MANUFACTURING

For M. O. No. **PAZ 2020**

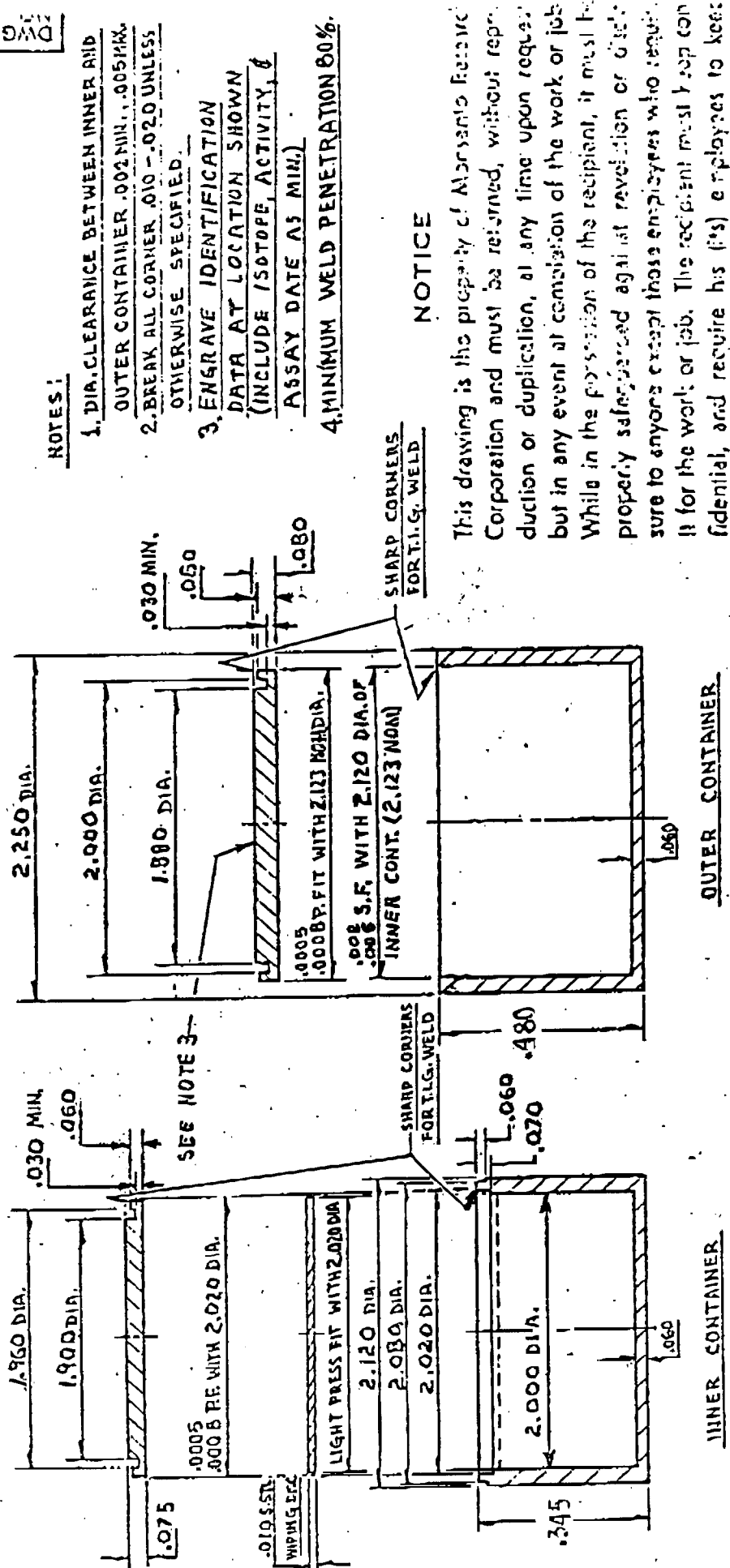
Contact No. _____

Date **4-7-91** By **PAZ**

REVISIONS

ZONE	SYM	DESCRIPTION
	Δ	D.E. MFG. QA ADDED

DATE	APPROVAL
3-17-76	<i>PAZ</i>



NOTES:

1. DIA. CLEARANCE BETWEEN INNER AND OUTER CONTAINER .002 MIN. ± .005 MAX.
2. BREAK ALL CORNER .010 - .020 UNLESS OTHERWISE SPECIFIED.
3. ENGRAVE IDENTIFICATION DATA AT LOCATION SHOWN (INCLUDE ISOTOPE, ACTIVITY, & ASSAY DATE AS MIN.)
4. MINIMUM WELD PENETRATION 80%.

NOTICE

This drawing is the property of Monsanto Research Corporation and must be returned, without reproduction or duplication, at any time upon request but in any event at completion of the work or job. While in the possession of the recipient, it must be properly safeguarded against revelation or disclosure to anyone except those employees who require it for the work or job. The recipient must keep confidential, and require his (its) employees to keep confidential, the information contained hereon.

MONSANTO RESEARCH CORPORATION
 DAYTON LABORATORY
 DAYTON, OHIO

RELEASED FOR MANUFACTURING

NEUTRON SOURCE CONTAINER

APPRO	DATE
DRAPPD	3-11-76
HUGAPPD	4-30-75
DEAPPD	4-30-75
CHECKED	
DRAWN	4-30-75

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES:
 DECIMALS FRACTIONS
 .XX = ± ANGLES
 .XXX = ± .005
 .XXX BASIC 32' ± 30'
 ALL SURFACES
 MATERIAL 304 S.S.
 FINISH

DWG NO	REV
A24143-A A00	1

DWG