

**ELGEMS**

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TO : Seung Lee – NRC fax 301-415-5369  
FROM : Sergio Steinfeld – Elgems  
CC : Jim Beebe – GEMS fax 414-548-5197

*page 1 of 7*

Dear Mr. Lee

3/11/99

The letter bellow (7 pages) provides the required information you asked on our telephone conversation on 28/10/99 and later in your E-mail of 2/11/99.

Pages 2 and 3 were provided from DuPont. Specific installation instruction was added to assure visibility of the engraving of the line source after gluing it into the source holder.

See page 3 (Drawing B003564 , top of the page) :

“ SOURCE INSTALLATION INSTRUCTIONS “

row 2 “ EPOXY LINE SOURCE INTO GROOVE OF SOURCE HOLDER (SEE DEATIL B)

DETAIL B clearly instruct how to load the line source into the groove : “ ENGRAVING TO BE VISIBLE WITH SOURCE EPOXIED IN HOLDER”.

Pages 4,5,6 & 7 are updated pages of the ATC Operation Manual ( p2-10/11) and Service Manual ( p1-10/11) . The drawing of the label No. 1 was updated.

If you have any questions, please send me an E-mail to [sergio\\_steinfeld@elgems.com](mailto:sergio_steinfeld@elgems.com) .

Regards

Sergio Steinfeld

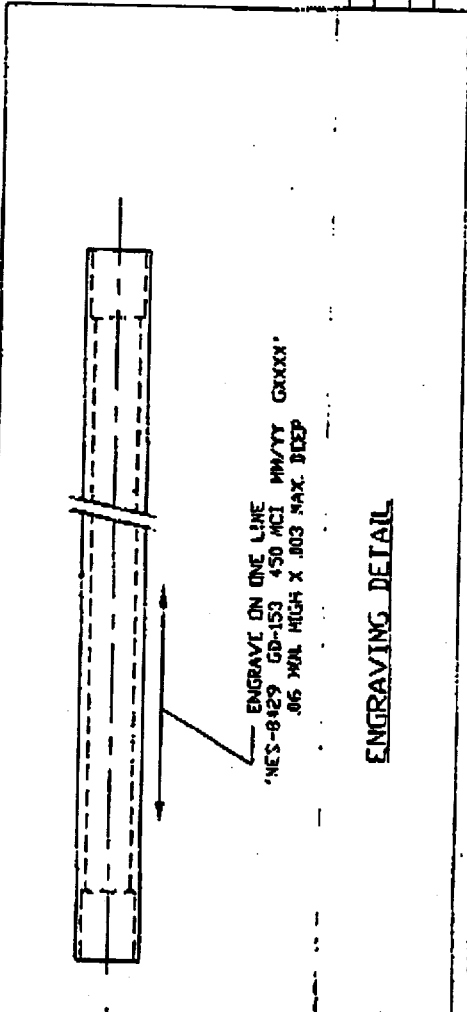
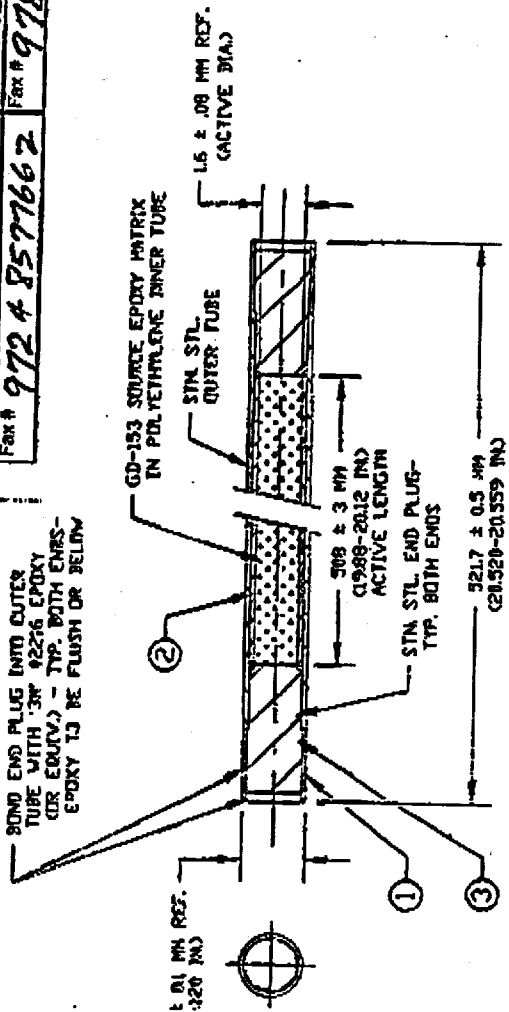


Post-It Fax Note 7871 # of pages 2  
 To **Sergio Steinfeld**  
 Condopt. **ELGEMs**  
 From **R. Brown**  
 Co. **DuPont**  
 Phone # **978 671 8000**  
 Fax # **972 4 8577662**

REVISE PER EDCB NO. 92205-184	APPROVAL	DATE
		10/14/99

**NOTES**

1. MINIMAL ACTIVITY TO BE 450 MCI. MINIMAL ACTIVITY TOLERANCE TO BE +20% -10% REFERENCED TO LABEL DATE. SOURCE ACTIVITY CONTENT TO BE DETERMINED BY CONCENTRATION (MCP/POS) X EPXY DENSITY (G/ML) X CALCULATED AMOUNT DISPENSER ONLY INTO SOURCE MATRIX.
2. RADIONUCLIDIC IMPURITIES PER SOURCE TO BE < 0.001% EU-152, < 0.0003% EU-154, AND < 0.0005% TB-160 REFERENCED TO LABEL DATE.
3. SOURCE UNIFORMITY TO BE DETERMINED BY MEASUREMENT OF RADIATION EMISSION FROM 1 CM SEGMENTS CROS. ALL SEGMENTS TO BE WITHIN ± 5% OF SOURCE MEAN EMISSION.
4. CONTAMINATION/LEAKAGE TESTING OF EACH SOURCE TO YIELD < 5 X 10<sup>-4</sup> UCI. REFERENCE 09D-205.
5. ANSI NS42-1977 PERFORMANCE CLASSIFICATION 77C22314.
6. NES-8429 LINE SOURCE IS INSTALLED INTO SOURCE HOLDER AND SHIELD AS SHOWN ON SHEET 2 OF 2.



3	8003018-21	EM9 PLUG (CODE NO. 078405)	2									
2	COMA PROD.	'INTRAMEDIC' APE-205 TUBING (OR EQUIV)	A/R									
1	3003018-01	INNER TUBE (R 078412), (R 079412, ENGRVD)	1									
<table border="1"> <tr> <td>ITEM NO.</td> <td>QTY</td> <td>DESCRIPTION</td> </tr> <tr> <td>304 STN. STL.</td> <td>1</td> <td></td> </tr> <tr> <td>3003564</td> <td>1</td> <td></td> </tr> </table>				ITEM NO.	QTY	DESCRIPTION	304 STN. STL.	1		3003564	1	
ITEM NO.	QTY	DESCRIPTION										
304 STN. STL.	1											
3003564	1											
<b>DuPont Pharmaceuticals Company</b>												
TO ORDER: 304 STN. STL. AT: .0100 L. SQUARES 4/162Z SIZE: 1.000 PRICE: 1/178 ANGLE: 30° DIA SCALE: N.T.S.		NES-8429 GD-153 LINE SOURCE ASSY (ELSCMT)										
8003018		8003564										
3003028		8003564										
NEXT ASSEMBLY		8003564										

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN MILLIMETERS. DIMENSIONS IN PARENTHESES ARE IN INCHES. THIS DRAWING IS THE PROPERTY OF DUPONT. ALL REPRODUCTIONS IN WHOLE OR PART, INCLUDING VARIATIONS FROM ORIGINAL, ARE PROHIBITED.

REV. NO.	REV. DATE	DESCRIPTION	APPROVED BY
B		REVISE PER EDCC NO 92605-1B4 10/14/99	EDCC

**SOURCE INSTALLATION INSTRUCTIONS:**

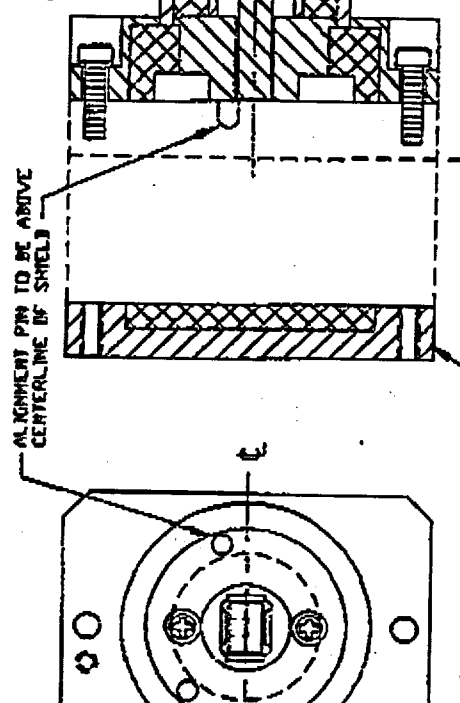
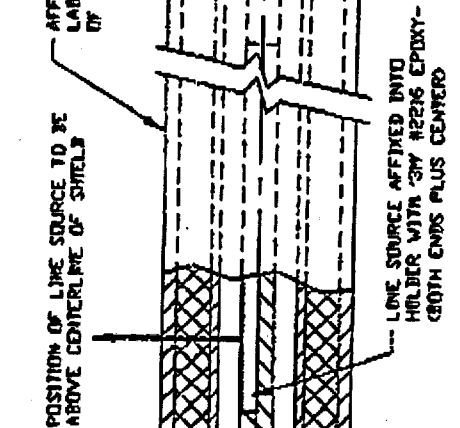
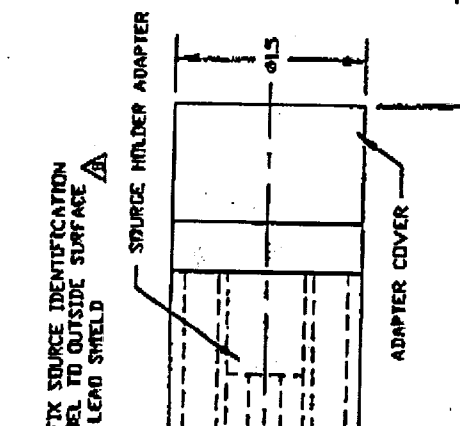
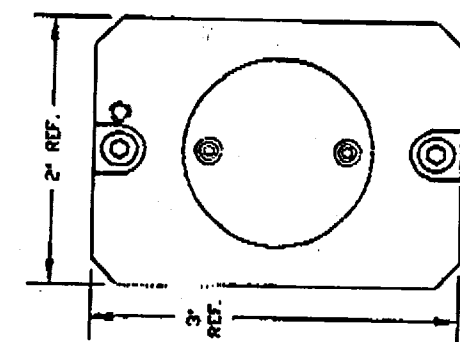
REMOVE ADAPTER COVER AND SOURCE HOLDER COVER  
 EPOXY LINE SOURCE INTO GROOVE OF SOURCE HOLDER (SEE DETAIL A)  
 INSERT SOURCE HOLDER GEAR WITH THREADED HOLE  
 FIRST INTO SHIELD AND ATTACH ADAPTER  
 AFFIX ADAPTER COVER ONTO SHIELD WITH SCREWS  
 AFFIX SOURCE HOLDER COVER ONTO SHIELD WITH SCREWS

**SOURCE INSTALLATION DETAIL**

HOLDER END WITH THREADED HOLE

ENGRAVING TO BE VISIBLE WITH SOURCE EPOXYED IN HOLDER

ALIGNMENT PIN TO BE ABOVE CENTERLINE OF SHIELD



**NOTES**

1. SOURCE HOLDER, SHIELD, AND HANDLING TOOL TO BE SUPPLIED BY 'ELSCINT'.
2. AFTER ASSEMBLY, WIPE TEST OF ENTIRE SURFACE OF SOURCE SHIELD TO YIELD 80005 UCI OR LESS.
3. THIS ASSEMBLED SOURCE, SHIELD, AND HANDLING TOOL IS PACKAGED WITH LABELS AND INSERTS PER LABELLING BOM.
4. FINAL PACKAGING TO BE PER PACKAGING DETAIL.

**FINAL TYPE A PACKAGE**  
 (FOR PROTOTYPE SOURCE SHIPMENTS)

THIS PACKAGE IS AN APPROVED D.D.I.-TYPE 7A CONTAINER WHICH IS CERTIFIED IN "MODIFIED NEUTRALIZER SHIPPING CONTAINER CERTIFICATION REPORT NO. A-0698J5".

TYPE A BOX (#599250) WITH FOAM INSERT

SECURITY SEAL TAPE TO SECURE CARTON FLAPS

KIMPACK (#030500) PACKING MATERIAL USED TO FILL VOID SPACE WITHIN FOAM CAVITY

SEE HOLDER / SHIELD END INSIDE CAVITY OF FOAM AND COVERED WITH KIMPACK

FOR ALL REMEDIATION PERSONNEL IS NECESSARY TO USE SUITABLE PROTECTIVE GEAR AND MAY NOT BE USED OR APPROVED WITHIN PERMISSIBLE RANGE OF ALL REGULATIONS IN EFFECT OR PART, INCLUDING VARIOUS S&P DRAWINGS PERTAINING TO THIS

REV. NO.	REV. DATE	DESCRIPTION	APPROVED BY
B		REVISE PER EDCC NO 92605-1B4 10/14/99	EDCC

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Radiation Safety  
Radiation Leakage Test

Safety

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## Patient Safety

For general patient safety information, refer to the Patient Safety Section in the Safety and Regulatory Chapter of the Camera Operation Manual.

1. Warn the patient not to touch the Rod Units.

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## Safety and Shutter Status Labels

Figure 2-3 and Figure 2-4 depict the location of the ATC safety labels and the Shutter Status Labels. The numbers used in the figures correspond to the numbers shown alongside the labels shown on the next page.

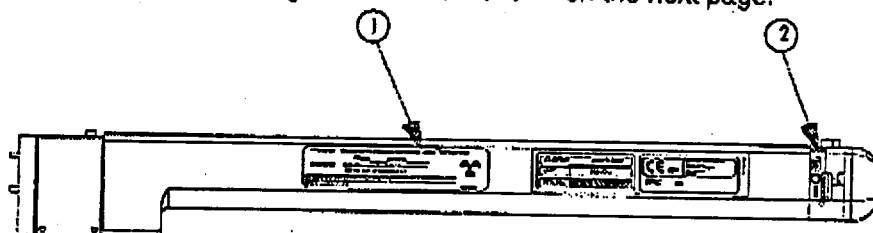


Figure 2-3. ATC Rod Unit Labels

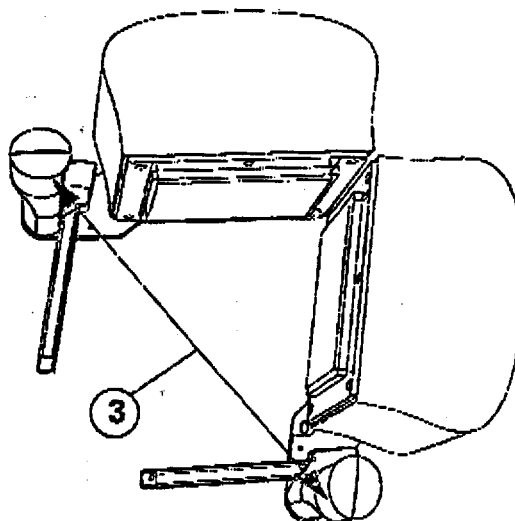

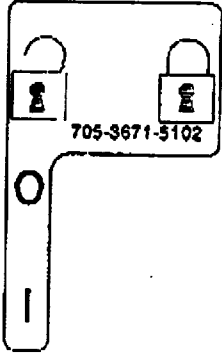


Figure 2-4. ATC Safety Labels

Safety

<p>1</p>	<p><b>WARNING: RADIOACTIVE MATERIAL ENCLOSED - MAX. <sup>153</sup>Gd 540 mCi</b></p> <p><sup>153</sup>Gd _____ mCi On _____</p> <p><b>HANDLING</b> Instructions: refer to MG-ATC Service Manual P/N 490-3201-07 Chapters 3 &amp; 5</p> <p><small>THE MANRO HAS APPROVED DISTRIBUTION OF THE MG-ATC TO PERSONS LICENSED TO USE BY PRODUCT MATERIAL IDENTIFIED IN 35.57, 35.52, OR 35.500, AS APPROPRIATE AND TO PERSONS WHO HOLD AN EQUIVALENT LICENSE ISSUED BY AN AGREEMENT STATE</small></p>  <p>UR00042A</p>
<p>2</p>	<p><b>Shutter Status Label</b></p>  <p>705-3671-5102</p>
<p>3</p>	<p><b>WARNING:</b></p> <p><b>DO NOT LET FINGERS, HAIR, OR CLOTHING GET CAUGHT IN THE OPENING</b></p> <p>705-3671-0802</p>

### 1.7 SAFETY LABELS

Figure 1-3 and Figure 1-4 depict the location of the ATC safety labels. The numbers used in the figures correspond to the numbers shown alongside the labels shown on the next page.

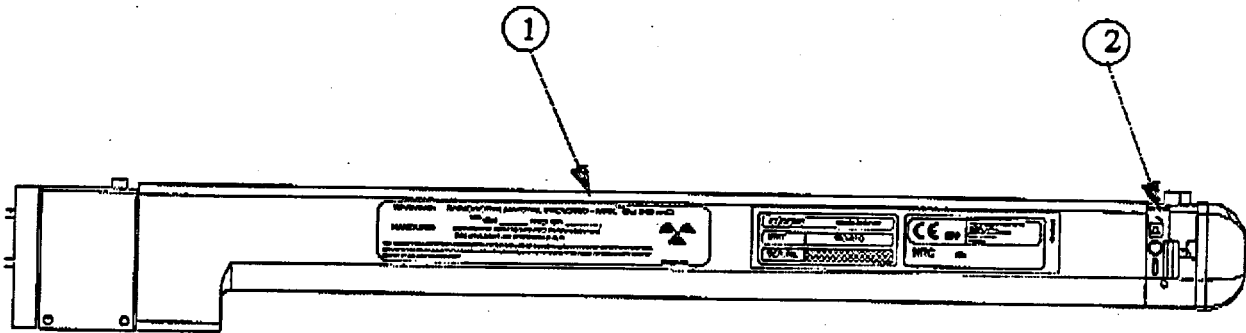


Figure 1-3. Rod Unit Safety Labels

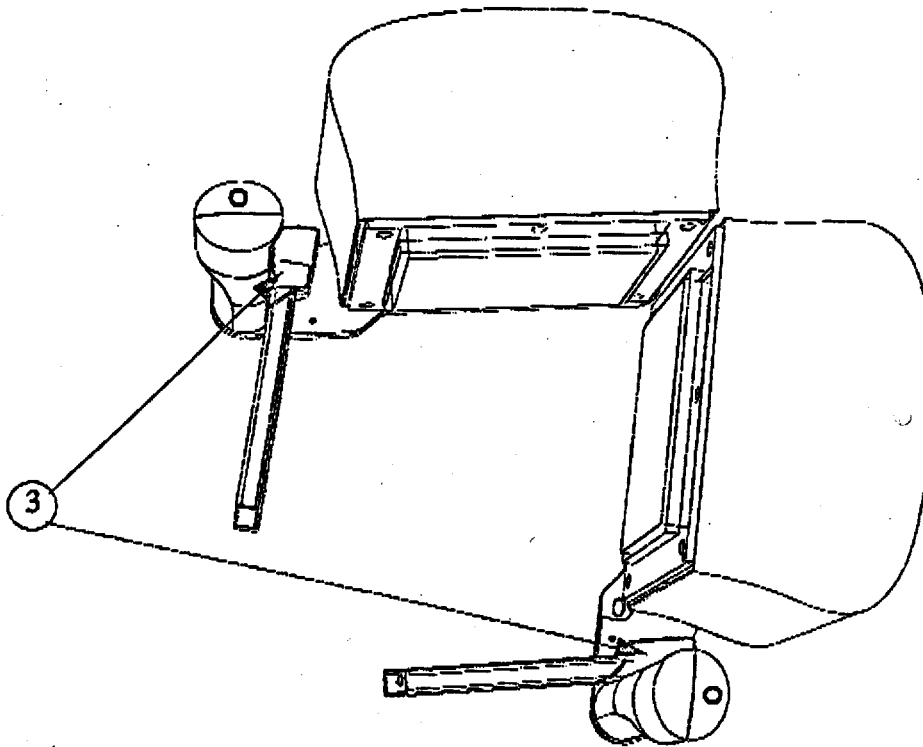

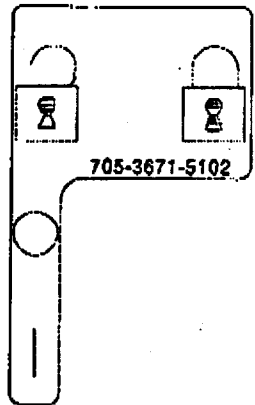


Figure 1-4. ATC Safety Labels

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**Table 2. Safety Labels**

<p>1</p>	<div style="border: 1px solid black; padding: 5px;"> <p><b>WARNING: RADIOACTIVE MATERIAL ENCLOSED - MAX <sup>152</sup>Gd 540 mCi</b></p> <p><sup>152</sup>Gd _____ mCi On _____</p> <p><b>HANDLING</b> Instructions: refer to MG-ATC Service Manual P/N 490-3201-07 Chapters 3 &amp; 5</p> <p><small>THE MANUFACTURER'S APPROVED DISTRIBUTION OF THE MG-ATC TO PERSONS LICENSED TO USE BYPRODUCT MATERIAL IDENTIFIED IN §§.57, 35.400, OR 35.500 AS APPROPRIATE, AND TO PERSONS WHO HOLD AN EQUIVALENT LICENSE ISSUED BY AN AGREEMENT STATE</small></p>  <p style="text-align: right;"><small>12100024</small></p> </div>
<p>2</p>	<p style="text-align: center;"><b>Shutter Status Label</b></p>  <p style="text-align: right;">705-3671-5102</p>
<p>3</p>	<div style="border: 1px solid black; padding: 10px; border-radius: 10px;"> <p><b>WARNING:</b></p> <p><b>DO NOT LET FINGERS, HAIR, OR CLOTHING GET CAUGHT IN THE OPENING</b></p> <p style="text-align: right;">705-3671-0802</p> </div>