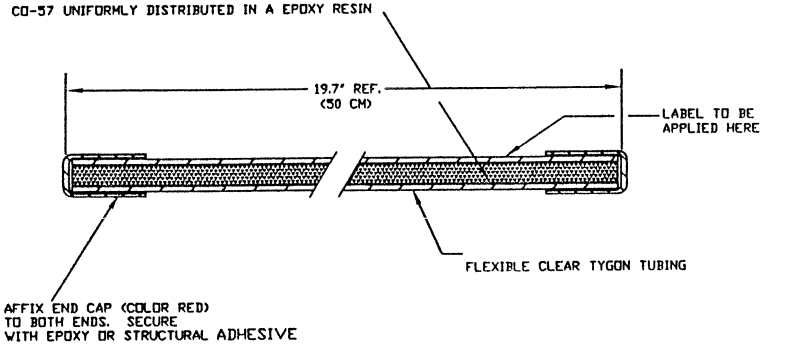
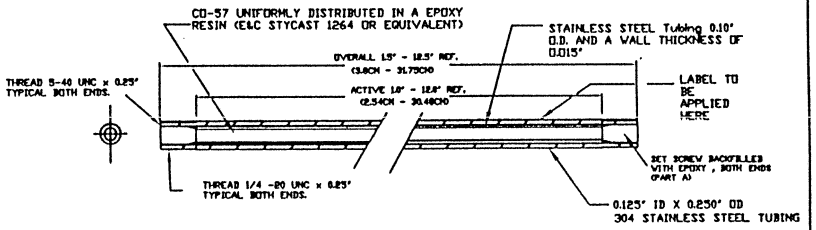
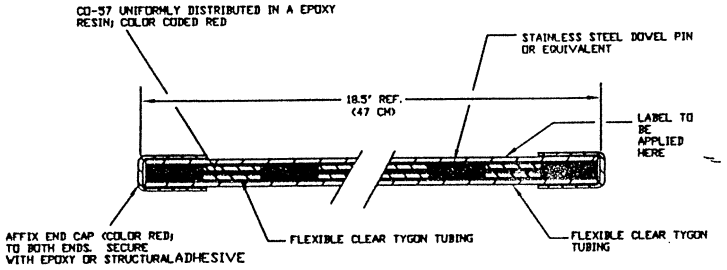
REVISIONS					
LTR.	ECO NO.	DESCRIPTION	BY	DATE	APPROVED



BM83-10
FLEXIBLE LINE



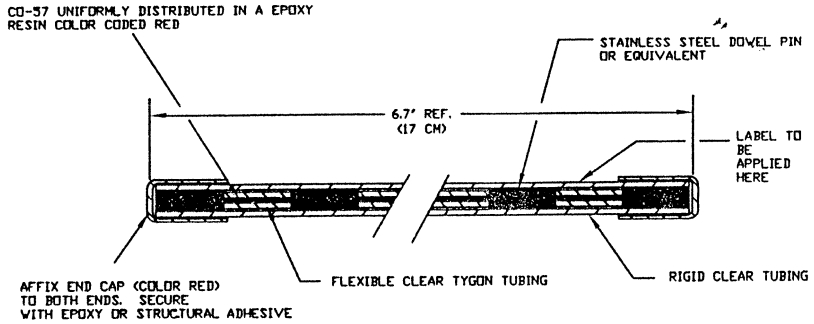
BM83-40
RIGID LINE



BM83-20
FLEXIBLE RULER

All configurations of sources have been tested to meet a minimum classification of ANSIN43.6-1997 performance classification of 97C22212 for Calibration source greater than 30 microcuries.

STANDARD MODEL TABLE			
MODEL NO.	NUCLIDE	MAXIMUM ACTIVITY	COLOR CODE
BM83-10	CO-57	1.2 mCi	RED
BM83-20	CO-57	1.2 mCi	RED
BM83-30	CO-57	1.2 mCi	RED
BM83-40	CO-57	25.0 mCi	RED



BM83-30
RIGID RULER

ITEM NO.	DWG. SIZE	PART OR IDENTIFYING NO.	DESCRIPTION	QTY

MATERIAL: PER DWG. SPECS.

AUTOCAD DWG. FILE:

PRIOR ASSEMBLY

NEXT ASSEMBLY

RADQUAL, LLC

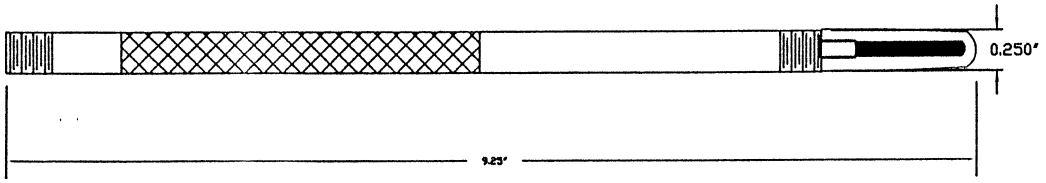
TOLERANCE	DRAWN: K. ALLBERG	DATE: 11/11/03
XX ±	CHECKED:	
XXX ±	APPROVED	
FRACT. ±	ENG:	
ANGLES ±	SCALE:	Sheet OF

CO-57 LINE SOURCE COMPOSITE
BM83-10, BM83-20, BM83-30 AND BM83-40 MODELS

DWG. NO. B009001 REV.

Drawing Authorized for Public Disclosure

REVISIONS					
LTR.	ECO NO.	DESCRIPTION	BY	DATE	APPROVED



BM10
304 OR 306 SS
DWG B1001001
DWG B1001002

STANDARD MODEL TABLE

MODEL NO.	NUCLIDE	MAXIMUM ACTIVITY FOR LUCITE	COLOR CODE FOR LUCITE	MAXIMUM ACTIVITY AL-6061-T6	MAXIMUM ACTIVITY 304SS or 306SS
BM03-22	NA-22	0.12 mCi	YELLOW	0.60 mCi	NA
BM03-60	CO-60	0.06 mCi	BLUE	0.30 mCi	NA
BM03-57	CO-57	1.20 mCi	RED	12.0 mCi	NA
BM03-68	GE-68/GA-68	0.12 mCi	WHITE	0.60 mCi	NA
BM03-133	Ba-133	0.12 mCi	BLACK	1.20 mCi	NA
BM03-137	Cs-137	0.12 mCi	GREEN	0.60 mCi	NA
BM10-57	CO-57	NA	NA	NA	1.2 mCi

1. SOURCE ACTIVITY CONSISTS OF RADIONUCLIDE DISPERSED IN A HIGH IMPACT EPOXY RESIN. RESIN MAYBE COLOR CODED PER TABLE USING COLORING APPROPRIATE FOR STYCAST EPOXY (OR EQUIV). ALTERNATE METHOD IS TO DEPOSIT ACTIVITY ONTO APPROPRIATE METAL MATRIX AND SEAL WITH EPOXY.

2. PRODUCT NOMINAL ACTIVITY SHALL BE REFERENCED TO LABEL DATE. NOMINAL ACTIVITY TOLERANCE SHALL NOT BE > +20% OR < -10% AT TIME OF SHIPMENT. MAXIMUM ACTIVITY CAN NOT BE EXCEEDED AT TIME OF SHIPMENT.

3. NUCLIDE CALIBRATION SHALL BE RADIOACTIVITY CONTENT DETERMINED BY IONIZATION CHAMBER MEASUREMENT OR GRAVAMETRIC TRANSFER OF CALIBRATED MASTER SOLUTION.

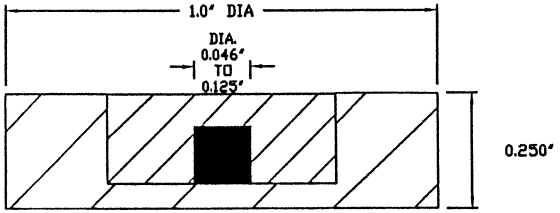
4. RADIOPURITY TO MEET RADIONUCLIDE SPECIFICATIONS AT TIME OF CALIBRATION.

5. CONTAMINATION/LEAKAGE TESTING OF EACH SOURCE SHALL BE PER PROCEDURE FOR CONTAM./LEAK. TEST OF REF. SOURCES'. LIMIT 5 X 10^{-3} uCi.

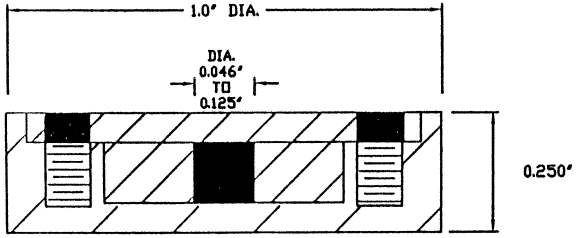
6. CERTIFICATES AND LABELING PER PROCEDURE

7. ANSI N43.6-1997 PERFORMANCE CLASSIFICATION OF 97C22212 FOR CALIBRATION SOURCES

BM03
LUCITE
DWG B003001
DWG B003002



BM03
Al 6061-T6
DWG B003003
DWG B003004



ITEM NO.	DWG. SIZE	PART OR IDENTIFYING NO.	DESCRIPTION	QTY

MATERIAL: PER DRAWING SPECS

RADQUAL, LLC

TOLERANCE
.XX ±
.XXX ±
FRACT. ±
ANGLES ±

DRAWN: K. ALLBERG DATE: 1/15/05
CHECKED:
APPROVED
ENG:

POINT SOURCE MARKER ASSEMBLY DRAWING

SCALE: NTS Sheet 1 of 1

DWG. NO. B003005 REV.

PRIOR ASSEMBLY

NEXT ASSEMBLY

AUTOCAD DWG. FILE: