

**Amersham Corporation**  
40 North Avenue  
Burlington, Massachusetts 01803  
Telephone (617) 272-2000

71-9007

December 21, 1990

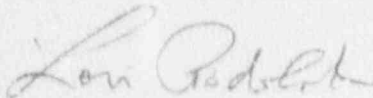
Mr. Charles E. MacDonald, Chief  
Transportation Branch  
Division of Safeguards and Transportation, NMSS  
U.S. Nuclear Regulatory Commission  
OWFN 4E4  
Washington, D.C. 20555

RE: Docket No. 71-9007

Dear Mr. MacDonald:

Enclosed is a revision to drawing number 42402-01 which includes the source assembly models B-8-A and B-8-T as requested in your November 21, 1990 letter. Should you require any additional information regarding this request, please contact me at (617) 272-2000 extension 230.

Sincerely,



Lori Podolak  
Radiation Safety Specialist

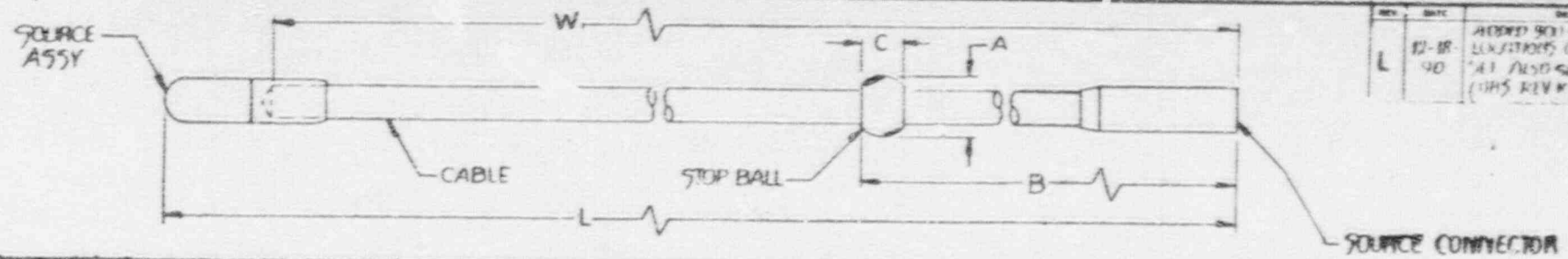
Enclosure

9012270366 901221  
PDR ADOCK 07109007  
C PDR

**Amersham**

n/101/1

REV. DATE DESCRIPTION  
 L 12-18-90 ADDED 901 SUIT AT LOCATIONS Q1, Q3 & Q8. AT ALSO SUIT 3. (THIS REV. OF THE) F/GP



LOCATION COORDINATE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
SOURCE ASSY MODEL NO.	RADIOLINE	CAPACITY (CURIES)	SOURCE HOLDER DWG NO.	SOURCE CAPSULE ASSEMBLY	CABLE TYPE	SOURCE CONNECTOR DWG NO.	DIM. L"	DIM. W"	DIM. B"	DIM. C"	DIA. A"	DRIVE CABLE CONNECTOR DWG	EXPOSURE DEVICE USED IN	SOURCE CHANGER	REMARKS			
1 A424-1	IR-192	240	A42401-1	60001 60004 OR 875	.187 D TELEFLEX	B55000-900	7.44	6.85	2.373	0.25	0.31	A55000-A	402 498 404 498A 412 524* 489 525 490 532-# 491 533-# 496 699	414 820 650 855 500-SU (T)	* = USES DRIVE CABLE CONNECTOR B55000-2			
2 A424-6	IR-192	120	A42406-1	60001 60004 OR 875	.187 D TELEFLEX	B55000-900	10.69	10.06	N.A.	N.A.	N.A.	A55000-A	511	414 650				
3 A424-9	IR-192	120	A42409-1	60001 60004 OR 875	.187 D TELEFLEX	B55000-900	7.19	6.58	1.225	0.25	0.31	A55000-A	402 715 660 796	414 820 650 855 500-SU (T)				
4 A424-20	IR-192	240	A42420-1	60001 60004 OR 875	.187 D TELEFLEX	B55000-900	9.38	8.77	1.225	0.25	0.31	A55000-A	684	750 820 855				
5 68309	IR-192	120	368309	68310	.187 D TELEFLEX	N.A.	AS SPECIFIED TO SUIT DEVICE		N.A.	N.A.	N.A.	N.A.	683	750 820				
6 814	IR-192	120	A81401	60001 60004 OR 875	.187 D TELEFLEX	B55000-900	6.94	6.35	1.625	0.25	0.31	A55000-A	A.I. 920	414 820 650 855 500-SU (N)	REFERENCE ONLY - NOT USED			
7 848	IR-192	120	A84802	60020 60021 OR 875	.150 D FLEXIBLE SHAFTING	A86101	7.62	6.97	2.56	0.27	0.31	B86101-5	GI CENTURY SPEC 2T GN 20V	414, 500-SU (T) 650				
8 866	IR-192	120	A86602	60020 60021 OR 875	.150 D FLEXIBLE SHAFTING	A86101	6.72	6.06	1.44	0.27	0.31	B86101-5	A.I. 920	414, 650 500-SU (P)				

**NOTE:**  
 A. LETTER DESIGNATION WITH MODEL 500-SU SOURCE CHANGER [I.E. 500-SU (N)] INDICATES HOLDOWN CAP TO BE USED. SEE DRAWINGS SK2332-1 & SK2334-2 FOR DETAILS

DRAWN BY: *[Signature]*  
 CHECKED BY: *[Signature]*  
 APPROVED BY: *[Signature]*

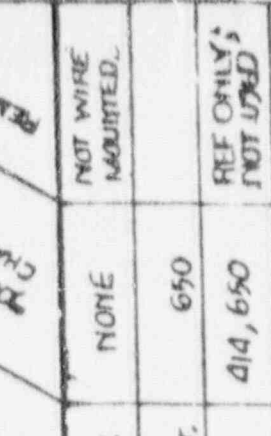
TITLE: SOURCE TABLE  
 PART: 42402-1  
 SCALE: 1/8" = 1"

4-16  
90  
1-14  
90  
1-14  
90

SEE 301 - CAT IN P. 26,  
ADDRESS (N) OR (E) SEE  
SHEET 1085 FOR A BARS)  
WAYS SWT 2 OF 2, ABOVE  
SOURCE ASST'S AT LOOPT  
ALL 6 A12

1-14  
90  
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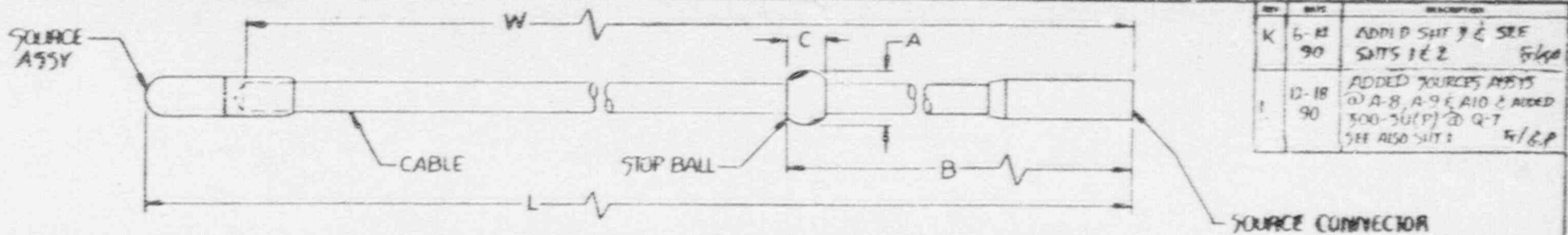
SEE SWT 10 P



LOCATION	PROJECT ASST MODEL NO	RADIATION	CAPACITY (CURIES)	SOURCE HOLDER DWG. NO.	SOURCE CAPABLE RESEMBLY	CABLE TYPE	GRIPPER CONNECTOR DWG. NO.	DIM. L.	DIM. W.	DIM. B.	DIM. C.	DIA. A.	DRIVE CABLE CONNECTOR DWG.	EX POSURE DEVICE USED IN	SOURCE CHANGER	REMARKS
1	591	IR-192	240	N.A.	60006	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	616, 644	NONE	NOT WIRE MOUNTED.
2	69701	IR-192	120	A69701-1	60001 OR 60004 OR 875	.187 DIA TELEREX	B55000-900	7 11/16	2.56	.25	.31	A59000-A	GAMMA IND. MOD 35 & CLAMP BY PRJT.	650		
3	84401	IR-192	120	N.A.	60017 OR 60018	.125 DIA TELEREX	B55000-900 W/SLEEVE	6 11/16	1.40	.28	.31	A59000-A	A.I. 580	414, 650		REF ONLY; NOT USED
4	87702	IR-192	120	A87702-1	A60020 OR A60021 OR A87702	.150 DIA FLEX-SHAFT	A86101	7.19	1.750	.187	.31	B86101-5	IND. NUCLEAR IR100	650, 500SU(N)		
5	87703	IR-192	120	A87703-1	A60001 OR A60004 OR A87501	.187 DIA TELEREX	B55000-900	7.19	1.750	.25	.31	A59000-A	AS ABOVE	650, 500SU(N)		
6	87704	IR-192	120	A87704-1	AS ABOVE	.187 DIA TELEREX	A86101	7.19	1.750	.25	.31	DAG801-5	AS ABOVE	650, 500SU(N)		
7	87901	IR-192	120	A87901-1	A68314	.150 DIA FLEX-SHAFT	A86101	7.94	2.062	.187	.31	B86101-5	ROSCOFLEX → MK-1C-140	650, 500SU(6)		
8	87902	IR-192	120	A87902-1	A68314	AS ABOVE	A87902-2	7.94	2.062	.187	.31	A59272-13	AS ABOVE	650, 500SU(5)		
9	88484	IR-192	120	A88484-1	7961817 (X1177)	.187 DIA TELEREX	B55000-900	7 11/16	1.325	.25	.31	A59000-A	660	650		UP'S PROSAIL 0801-9
10	91801	IR-192	200	A91802	7961988 (X2050)	.187 DIA TELEREX	B55000-900	7 11/16	1.325	.25	.31	A59000-A	660	650		
11	89911 (A-1-J)	IR-192	120	B89902	A87510	.187 DIA TELEREX	A89900-1	7 1/8	1.875	.25	.31	A89900-1	GI CENTURY 75 DRIVE PUL. SPEC ZI GN 20V, 00Y	500SU (N)		
12	89912 (A-2-J)	IR-192	120	B89902	A87510	.187 DIA TELEREX	A89900-1	7 11/16	2.562	.25	.31	A89901-1	GI CENTURY 5A 355A, GN 20V, 00Y	500SU (G)		

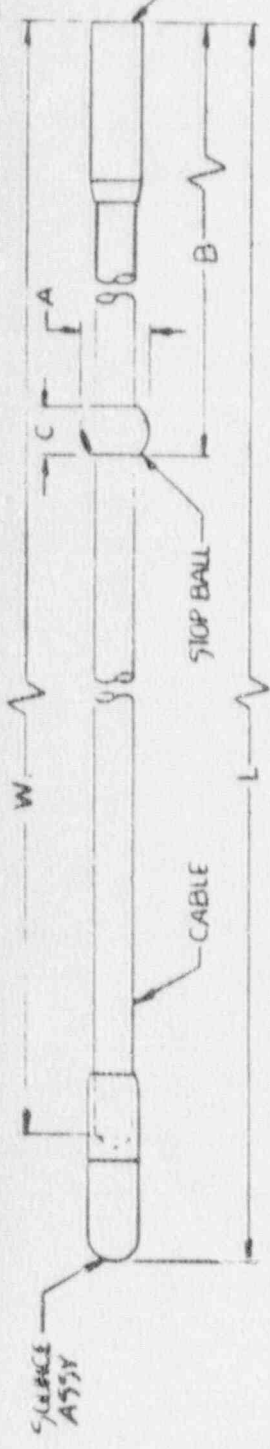
SOURCE TABLE

42402-1



LOCATION COORDINATES	SOURCE ASSY MODEL NO.	RADIUM PLATE	CAPACITY (CURIES)	SOURCE HOLDER DWG NO.	SOURCE CAPSULE ASSEMBLY	CABLE TYPE	SOURCE CONNECTOR DWG NO.	DIM. L*	DIM. W*	DIM. B*	DIM. C*	DIA. A*	DRIVE CABLE CONNECTOR DWG	EXPOSURE DEVICE USED IN	SOURCE CHAIR/EA	REMARKS
1	A-1-A (88801)	IR152	120	B88801-1	A88702	1/8 7x19	801-8001-202	7 1/8	6 1/2	1.88	.705	801-1002-208	G.I. CENTURY 35 UNIVERSAL, SPEC 2T GN 20V, 40V	5005U(N)		
2	A-2-A (88701)	IR192	120	B88701-1	A88702	1/8 7x19	801-8001-202	7 11/16	7 3/32	2.56	.705	801-1002-208	G.I. CENTURY 5A, 355A, G.N. 20V, 40V	5005U(G)		
3	89911A (A-1-J)	IR192	120	B89902A	A88702	1/8 7x19	A89900-7	7 1/8	6.52	1.87	.705	A89901-1	G.I. CENTURY 35 UNIVERSAL, SPEC 2T GN 20V, 40V	5005U(N) C-10		
4	89912A (A-2-J)	IR192	120	B89902A	A88702	1/8 7x19	A89900-7	7 11/16	7.09	2.56	.705	A89901-1	G.I. CENTURY 5A, 355A, G.N. 20V, 40V	5005U(G) C-10		
5	89911F (A-1-J)	IR192	120	B89902F	A87501	.150 DIA FLEX-SHAFT	A89900-10	7 1/8	6.56	1.87	.705	A89901-1	G.I. CENTURY 35 UNIVERSAL, SPEC 2T GN 20V, 40V	5005U(N)		
6	89912F (A-2-J)	IR192	120	B89902F	A87501	.150 DIA FLEX-SHAFT	A89900-10	7 11/16	7 1/8	2.56	.705	A89901-1	G.I. CENTURY 5A, 355A, G.N. 20V, 40V	5005U(G)		
7	B-8-A (88901)	IR192	120	B88901	A88702	1/8 7x19	801-8001-202	6 13/16	6 3/16	1.50	.705	801-1001-208	AUTOMATION 520	650, C10 500-5U(P)		
8	B-8-T (89701)	IR192	120	B89701	A88702	1/8 7x19	B55000-900	6 13/16	6 1/4	1.56	.705	A55000-A	A.I. 520	650, C10, 500-5U(P)		
9	931	IR192	120	A93100	A87502	.150 DIA FLEX-SHAFT	B55000-900	6.725	6.86	1.44	.705	A55000-A	A.I. 520	500-5U(P)		
10	932	IR192	120	A93200	A87502	.150 DIA FLEX-SHAFT	B55000-900	7 5/8	6.96	2.56	.705	A65000-A	SPEC 2T	500-5U(T)		

TITLE 		RADIATION PRODUCTS DIVISION BURLINGTON, MA 01803	
DRAWN BY 		CHECKED BY 	
DATE 6-12-90		CLASSIFICATION 42402-1	
SCALE 		SHEET 3 OF 3	



SOURCE CONNECTION

LOCATION	COORDINATE	MODEL NO.	RADIATION CAPACITY (CURIES)	SOURCE HOLDER DMS NO.	SOURCE CAPSULE ASSEMBLY	CABLE TYPE	SOURCE CONNECTOR DMS NO.	DIM. L	DIM. W	DIM. B	DIM. C	DIA. A	DRIVE CABLE CONNECTOR DMS	EXPOSURE DEVICE USED IN	SOURCE CHANGES	REMARKS
1	T-3-T	IR-192	120	A42409-1	60001, 60004 OR 875	.187 D TELEPLEX	B55000-900	7.19	6.58	1.235	.25	.71	A55000-A	40X, 713 660, 796	414, 620, 650, 855, 500-SU (T)	
2	RG5A-17	IR192	120	B88701-1	AB8702	1/8 7x19	801-8001-202	7 11/16	7 3/8	2.56	.305	.305	801-1002-208	G.I. CENTURY SA, 35 SA, GN 20V, 40V	500-SU (G)	
3	RG-17	IR192	120	B88801-1	AB8702	1/8 7x19	801-8001-202	7 1/8	1.68	1.68	.305	.305	801-1002-208	G.I. CENTURY UNIV, 35, SPEC. AT, GN 20V, 40V	500-SU (N)	
4	RAAG-17	IR192	120	B88901	AB8702	1/8 7x19	801-8001-202	6 13/16	1.50	1.50	.305	.305	801-1002-208	AUTOMATIC 530	650, C10, 500-SU (P)	
5	T-1-T	IR192	240	A42401-1	A60001, A60004 OR 875	.187 D TELEPLEX	B55000-900	7.44	6.83	2.373	.25	.71	A55000-A	402, 490, 498A 404, 491, 524 412, 456, 525, 485, 498, 574 # 533 # 699	414, 820, 650, 855, 500-SU (T)	# 1795 DRIVE CABLE CONNECTOR B55000-A
6																
7	IN-1-T	IR192	120	AB8705-1	A60001, A60004 OR 87501	.187 D TELEPLEX	B55000-500	7.19	6.58	1.750	.25	.71	A55000-A	IND. NUCLEAR 1R100	650, 500-SU (N)	
8	T4	IR192	120	B68309	68710	.187 D TELEPLEX	N.A.	AS SPECIFIED TO SUIT DEVICE	N.A.	N.A.	N.A.	N.A.	N.A.	687	750, 820	

NOTE:  
 1. LETTER DESIGNATION WITH MODEL 500-SU SOURCE (HIGHLIGHT) [I.E. 500-SU(N)] INDICATES HOLDING CAP TO BE USED.  
 2. SEE DRAWING 542330-1 & 542331-2 FOR DETAILS

NATIONAL BUREAU OF STANDARDS  
 RADIATION PHYSICS DIVISION  
 4101 RESISTANCE DRIVE  
 GAITHERSBURG, MARYLAND 20899  
 DATE: 11-11-70  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]  
 TITLE: SOURCE TABLE  
 DRAWING NO: 42402-1  
 SHEET 2 OF 4