

Rec'd 1/4/89

Amersham Corporation  
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Burlington, Massachusetts 01803  
Telephone (617) 272-2000

Mr. Steve Baggett  
Medical , Academic and Commercial Use Safety Branch  
Division of Industrial and Medical Nuclear Safety  
NMSS  
USNRC  
Washington DC 20555

Dear Mr. Baggett:

As discussed in our meeting in November, enclosed please find the lists of obsolete radiography equipment we will no longer fully support.

The first list (1) is equipment we cannot presently support with sources or replacement parts due to lack of documentation and drawings from the original manufacturer. We will not provide any sources or parts for equipment on this list.

The second list (2) is equipment that will be supported until 1 April 1989. After that time we will only provide sources if they are currently manufactured and will provide replacement parts if they are currently in stock. For the majority of equipment on this list there are no replacement parts available. Devices that have sources currently available are noted on this list.

The third list (3) is equipment that will be supported until 1 April 1990. After that time the level of support will be the same as for equipment in list (2).

The fourth list (4) is equipment that we will continue to provide sources for, but replacement parts will not be provided. The fifth list (5) contains radiography comeras that will have continued long term support from Amersham Corporation.

As we have discussed and agreed upon, NRC will issue an information notice based on the information requested from Amersham Corporation concerning obsolete radiography equipment. This information notice will inform radiography licensees of the obsolete equipment and levels of support. Amersham Corporation

will also be informing customers of the obsolete equipment and time frames for implementation. As the first phase of equipment will not be supported after 1 April 1989 we would appreciate your assistance in notifying the radiography field as soon as possible.

Thank you for your assistance in removing the obsolete equipment from the field. We feel this will make the industry safer, more consistent, and easier to regulate. Please contact me if you need additional information.

Sincerely,

*Cathleen M. Roughan*

Cathleen M. Roughan  
Radiation Safety Officer

April 1, 1989

LIST (1)

The following Gamma Industries, Gulf Nuclear, and Automation Industries equipment we cannot presently support due to the lack of drawings and documentation. Amersham Corporation will not provide sources or replacement parts for this equipment.

<u>MODEL</u>	<u>ISOTOPE</u>	<u>ACTIVITY</u>
AI IRIDITRON 10A	Ir-192	100Ci
AI IRIDITRON 20A	Ir-192	60Ci
AI IRIDITRON 30BA	Ir-192	30Ci
AI IRIDITRON 40BA	Ir-192	30Ci
AI IRIDITRON 103A	Ir-192	100Ci
AI MULTITRON 50B SERIES	Ir-192	300Ci
(51B, 52B, 53B)	Co-60	40Ci
AI UNITRON 110AB	Ir-192	120Ci
	Co-60	18Ci
AI MULTITRON 60C SERIES	Ir-192	100Ci
(61C, 62C, 63C)	Co-60	40Ci
AI IRIDITRON 100A SERIES	Ir-192	100Ci
AI UNITRON 102A	Ir-192	
	Co-60	3Ci
AI IRIDITRON 40AD	Ir-192	30Ci
AI IRIDITRON 40E	Ir-192	100Ci
AI MULTITRON 150 SERIES	Ir-192	100Ci
(151H, 152H, 153H)	Co-60	200Ci
AI MULTITRON 160 SERIES	Ir-192	100Ci
(161J, 162J, 163J)	Co-60	200Ci
GI UTILITY TWIN 20, 20A	Ir-192	400Ci
	Co-60	20Ci
GI UTILITY TWIN 50, 50A	Ir-192	400Ci
	Co-60	50Ci
GI UTILITY TWIN 100, 100A	Ir-192	400Ci
	Co-60	100Ci
GI MODEL S-15SA	Ir-192	36 Ci
GI MODEL ATL	Ir-192	
GI UTILITY TWIN 200A	Ir-192	Co-60
GI MODEL 180	Co-60	1000Ci

# LIST (2)

Amersham Corporation will not support the following equipment after 1 April 1989. Sources will be provided only if currently manufactured. Replacement parts will not be available after 1 April 1989.

<u>MODEL</u>	<u>ISOTOPE</u>	<u>ACTIVITY</u>	<u>SOURCE ASSEMBLY</u>	<u>AVAILABLE (YES/NO)</u>
500	Co-60	100Ci	A-424-8, A453-1	NO
446	Co-60	50Ci	A-424-8, A453-1	NO
440X	Co-60	10Ci	SPECIAL	NO
404, 404A	Co-60	10Ci	A424-4	NO
402	Co-60	10Ci	A424-2	NO
498, 498A	Ir-192	50Ci	A424-1	YES
489	Ir-192	10Ci	A424-1	YES
412, 412A	Ir-192	50Ci	A424-1	YES
490, 490X	Ir-192	100Ci	A424-1	YES
703	Co-60	50Ci	A424-16, A424-17	NO
501	Co-60	10Ci	A424-3	NO
576	Co-60	100Ci	A424-8, A453-1, -7	NO
578	Co-60	50Ci	A453-8, A424-8	NO
796	Ir-192	10Ci	A424-9	YES
528	Co-60	50Ci	A424-16, -17, A453-9, -10	NO
496	Co-60	3Ci	A424-5	NO
525	Co-60	5Ci	A424-5	NO
532	Ir-192	10Ci	A424-1	YES
524	Ir-192	100Ci	A424-1	YES
491	Co-60	100Ci	A424-3	NO
670	Co-60	5Ci	A424-10	NO
726	Cs-137	100mCi	72602	NO
571	Co-60	15mCi	571	NO
402	Ir-192	100Ci	A424-1, A424-9	YES
404, 404A	Ir-192	100Ci	A4524-1	YES
491	Ir-192	100Ci	A424-1	YES
496	Ir-192	100Ci	A424-1	YES
511	Ir-192	100Ci	A424-6	NO
525	Ir-192	100Ci	A424-1	YES
655	Co-60	50Ci	A424-11	NO
644	Ir-192	100Ci	58101-8	NO
699	Ir-192	200Ci	A424-1	YES
672	Co-60	100Ci	A424-12	NO

Above are all Amersham-Tech/Ops manufactured equipment.

LIST (3)

Support of the following equipment will be discontinued after 1 April 1990.

MODEL

AMERSHAM 683 —

AI520 —

AMERSHAM 533 —

AMERSHAM 713 —

LIST (4)

Sources will be manufactured for the following equipment but no parts will be supported.

MODEL

GI PIPELINER 1  
GI PIPELINER 201  
GI 35  
GI 35S  
GI 35SA  
GI CENTURY  
GI CENTURY S  
GI CENTURY S UNIVERSAL  
GI CENTURY SA UNIVERSAL  
GNI 20V  
GNI 20VS  
GNI 40V  
GNI 40VS  
GI GAMMATRON 5, 5A  
GI GAMMATRON 10, 10A  
GI GAMMATRON 20, 20A  
GI GAMMATRON 50, 50A  
GI GAMMATRON 100, 100A  
GI GAMMATRON 200, 200A  
GI 5SA  
GI 10SA  
PTL 100 PIPELINER  
PTL 125U PIPELINER  
PTL 230U PIPELINER

GI = GAMMA INDUSTRIES  
GNI = GULF NUCLEAR  
PTL = PITTSBURG TESTING LAB

LIST (5)

List of radiography cameras that will have continued long term support.

<u>MODEL</u>	<u>ISOTOPE</u>	<u>ACTIVITY</u>	<u>SOURCE ASSEMBLY</u>
AMERSHAM 520 *	Co-60	1000Ci	A424-7 <del>x</del> A453-2, #
→ AMERSHAM 616 *	Ir-192	240Ci	A453-5 <del>x</del> , -6 x
→ AMERSHAM 660 <del>A</del>	Ir-192	120Ci	A58101-8 <del>x</del>
→ AMERSHAM 684 <del>x</del>	Co-60	10Ci	A424-9 <del>x</del>
→ AMERSHAM 741 <del>A</del>	Co-60	30Ci	A424-5 <del>x</del>
AMERSHAM 865 <del>x</del>	Ir-192	240Ci	A424-18 <del>x</del>
AMERSHAM 920 <del>x</del>	Ir-192	240Ci	86520 <del>x</del>
AMERSHAM 676 <del>x</del>	Co-60	300Ci	90003 <del>x</del>
→ AMERSHAM 680 <del>x</del>	Co-60	100Ci	A424-13 <del>o</del>
AMERSHAM 858 <del>x</del>	Co-60	100Ci	A424-14 <del>x</del>
AMERSHAM 773 <del>x</del>	Cs-137	165mCi	A424-14 ✓ 77302
GI CENTURY SA	Ir-192	85Ci	A-2-A <del>x</del> 848 <del>x</del> 89912 <del>x</del> after 1 July 89

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ADDENDUM TO ALL REGISTRY OF RADIOACTIVE  
SEALED SOURCES AND DEVICES SAFETY EVALUATIONS FOR  
AMERSHAM CORPORATION LOCATED IN BURLINGTON MASS.

In 1984, a radiography equipment vendor, Automation Industries, located in Pennsylvania was purchased by Tech/Ops located in Massachusetts. In 1986 Amersham Corporation purchased Tech/Ops. assets and facilities. Later Amersham purchased two other radiography vendors. One located in Texas, Gulf Nuclear, and the other located in Louisiana, Gamma Industries.

Because of the lack of documentation and drawings, Amersham has decided not to support several of the radiography devices and sources involved in the acquisitions. The equipment having registration numbers with the unit number in the 800's and 900's are considered obsoleted and replacement parts or support are not available. For obsolete equipment the continued use of the original equipment manufacturer for licensing purposes is acceptable.