



Berthold Technologies USA, LLC
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FAX

ATTN.:	To Whom it may concern	FAX-NO.:	
COMPANY:	U.S. Nuclear Regulatory Commission	DATE:	6/26/01
CC:		OUR REF #:	
FROM:	Mark Morgan (Radiation Safety Officer)	PAGE(s) including cover	
SUBJECT:	<i>Updated Quarterly Report / Corporate Name Change</i>		

To Whom It May Concern:

In going through my records, I realized that we omitted to send you a copy of Quarterly report listing General Licensees that we distributed to under N.R.C. jurisdiction. Please see the enclosed report. We have also changed our corporate name from PerkinElmer Instruments to Berthold Technologies. I have also included a copy of our current operating license and a copy of the State of Tennessee granting the change to our license.

If you need any more assistance, please let me know.

Best regards,

A handwritten signature in black ink, appearing to be "Mark Morgan", written over a horizontal line.

Mark Morgan
Technical Manager Radiation Safety Officer
Berthold Technologies
US Operations
Direct Telephone 865-483-1488



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

3rd Floor, L & C Annex
401 Church Street
Nashville, TN 37243-1532

November 28, 2000

Berthold Technologies U.S.A., LLC
801 South Illinois Avenue
Oak Ridge, TN 37830

Attention: Juergen Muthmann

Dear Mr. Muthmann:

We have amended Tennessee Radioactive Material License Number R-01082-D02 in part to authorize the transfer of this license to Berthold Technologies U.S.A, LLC in accordance with the statements and representations in your letter dated November 7, 2000, with attachments. This amendment confirms that the organizational change as specified in your letter meets our requirements for transfer of the license, and authorizes Berthold Technologies U.S.A, LLC to continue licensed operations.

Sincerely,

Charles Arnott
Health Physicist
Division of Radiological Health

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH



RADIOACTIVE MATERIAL LICENSE

Amendment 32

Pursuant to Tennessee Department of Environment and Conservation Regulations, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess and transfer radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules and regulations of the Tennessee Department of Environment and Conservation and orders of the Division of Radiological Health, now or hereafter in effect and to any conditions specified below.

LICENSEE 1. Name Berthold Technologies U.S.A., LLC 2. Address 801 South Illinois Avenue Oak Ridge, TN 37830		3. License number R-01082-D02 amended in its entirety
		4. Expiration date April 30, 2002
		5. File no. R-01082
6. Radioactive Material (Element and Mass Number) See	8. Chemical and/or physical form Supplementary	9. Maximum Radioactivity and/or quantity of material which licensee may possess at any one time. Sheets
10. Authorized Use See Supplementary Sheets		

CONDITIONS

11. Unless otherwise specified, the authorized place of use is the licensee's address stated in item 2, above.

See Supplementary Sheets

For the Commissioner
Tennessee Department of Environment and Conservation

Date of Issuance November 28, 2000

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By: Charles Arnott
DIVISION OF RADIOLOGICAL HEALTH
Charles Arnott
Health Physicist

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License Number R-01082-D02

6. Radioactive Material (Element and Mass Number)	8. Chemical and/or Physical Form	9. Maximum Radioactivity and/or Quantity of Material Which Licensee May Possess at Any One Time
A. Cobalt 60	A. Sealed source (Amersham Model CKC.P4, Capsule Type VZ-1486/3)	A. No single source to exceed 500 millicuries. Total Cobalt 60 possessed under this license not to exceed 5 curies.
B. Cobalt 60	B. Sealed source (Berthold Technologies Model P 2602-100)	B. No single source to exceed 100 millicuries. Total Cobalt 60 possessed under this license not to exceed 5 curies.
C. Cesium 137	C. Sealed source (Amersham Model CDC.P4, Capsule Type VZ-1508/2)	C. No single source to exceed 750 millicuries. Total Cesium 137 possessed under this license not to exceed 15 curies.
D. Cesium 137	D. Sealed source (Amersham Model CDC.93, Capsule Type X.9, Berthold Technologies Adaptor Drawing No. 2601.104-000)	D. No single source to exceed 2000 millicuries. Total Cesium 137 possessed under this license not to exceed 15 curies.

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E. Cesium 137

E. Sealed source
(Bebig Model
Cs7.PO2)

E. No single source to
exceed 500 millicuries.
Total Cesium 137
possessed under this
license not to exceed
15 curies.

F. Cobalt 60

F. Sealed source
(Berthold Technologies
Model P 2608-100)

F. No single source to
exceed 500 millicuries.
Total Cobalt 60
possessed under this
license not to exceed
5 curies.

G. Americium 241

G. Sealed source
(Amersham Model
AMC.D3 and AMC.16)

G. No single source to
exceed 110 millicuries.
Total Americium 241
possessed under this
license not to exceed
3 curies.

H. Americium 241

H. Sealed source
(Amersham Model
AMC.16 and AMC.17)

H. No single source to
exceed 330 millicuries.
Total Americium 241
possessed under this
license not to exceed
3 curies.

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I. Cobalt 60	I. Sealed source (Berthold Technologies Model P 2608-100)	I. No single source to exceed 500 millicuries. Total Cobalt 60 possessed under this license not to exceed 5 curies.
J. Cobalt 60	J. Sealed source (Berthold Technologies Model P 2608-100)	J. No single source to exceed 500 millicuries. Total Cobalt 60 possessed under this license not to exceed 5 curies.
K. Cobalt 60	K. Sealed source (Berthold Technologies Model P 2608-100)	K. No single source to exceed 20 millicuries. Total Cobalt 60 possessed under this license not to exceed 5 curies.
L. Curium 244	L. Sealed source (Amersham Model CLCL)	L. No single source to exceed 11 millicuries.
M. Americium 241/Be	M. Sealed Source (Amersham Model AMN.PE1)	M. No single source to exceed 330 millicuries.
N. Cesium 137	N. Sealed Source (Amersham Model CDC.93)	N. No single source to exceed 110 millicuries.

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- | | | |
|------------------|---|--|
| O. Cesium 137 | O. Sealed source
(Berthold Technologies
Model LB 8920) | O. No single source to
exceed 900 millicuries. |
| P. Americium 241 | P. Sealed source
(Berthold Technologies
Model LB 8910) | P. No single source to
exceed 900 millicuries. |
| Q. Cesium 137 | Q. Sealed source
(AEA Technology
Model CDC.700,
Capsule X.7) | Q. Ten (10) sources not to
exceed 90 microcuries
each. Total not to
exceed 900 microcuries. |
-

10. Authorized Use

- A. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7440 D/F/DE/FE, LB 7442 D/F/DE/FE, LB 7444, LB 7445 D/F/DE/FE, LB 7446 D/F/DE/FE, or LB 300 LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- B. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7440 D/F/DE/FE, LB 7442 D/F/DE/FE, LB 7445 D/F/DE/FE, LB 7446 D/F/DE/FE, or LB 300 LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- C. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7440 D/F/DE/FE, LB 7445 D/F/DE/FE, or LB 300

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- LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- D. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7442 D/F/DE/FE, LB 7446 D/F/DE/FE, or LB 300 LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- E. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7440 D/F/DE/FE, LB 7445 D/F/DE/FE, or LB 300 LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized on the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- F. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB 300 L Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings.
- G. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB 379 gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings.
- H. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB-7487 Ash Monitoring System. Also, for receipt, possession, distribution, and storage within transport shieldings.

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- I. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB 300 IRL Type 1 Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized on the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- J. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB 300 ML Series or LB 300 MLT Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized on the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- K. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB 300 IRL ML Type II Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized on the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- L., M., and N. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB 375 Sulfur Analyzer gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- O. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB 300 L Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.

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- P. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB 8110 Mass Flow gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- Q. For development and testing of a new product device. This development and testing shall be performed only at the licensee's facility authorized in Condition 17 of this license. All source loading or handling shall be performed within the licensee's authorized storage facility.

Conditions (continued)

12. The licensee shall comply with applicable provisions of 1200-2-4, 1200-2-5, and 12002-10 of "State Regulations for Protection Against Radiation."
13. A. Radioactive material authorized by this license shall be used by individuals who have been trained in accordance with statements, representations, and procedures contained in the documents referenced in Condition 33 of this license. Records of this training shall be maintained for inspection by the Department.
- B. The Radiation Safety Officer for this license is David Watkins. The Alternate Radiation Safety Officer for this license is Mark Morgan.
14. A. The licensee is authorized to install, relocate, maintain, repair, test, and service devices authorized by this license or EG&G Berthold devices that are listed in the Registry of Sealed Sources and Devices maintained by the U. S. Nuclear Regulatory Commission. The licensee is authorized to perform shutter tests for any device listed in the above registry.
- B. Except as provided in C. below and Condition 22, installation, replacement, removal from service and disposal of sealed sources containing radioactive material used in devices shall be performed only by the device manufacturer, or other persons authorized by this

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Department, the U. S. Nuclear Regulatory Commission, or another Agreement State to perform these services. Sources for disposal shall be shipped directly to the manufacturer in Germany under proper authorization. The licensee is authorized to install, replace, remove from service, and dispose of Berthold Technologies P 2608-100 sources in dip tubes which are not part of a registered device in accordance with Procedure Number 0014 submitted with letter dated March 1, 1999.

C. Notwithstanding the authorizations in this condition, the licensee is authorized to provide services for EG&G Berthold devices that contain sources not approved in the Registry of Sealed Sources and Devices for use in that device, and devices that have modifications not approved in the Registry. However, this authorization does not include any activity that modifies the source, source holder, source assembly, or removes the source assembly for any purpose other than for replacement with a properly registered and approved source assembly or disposal of the non-approved source or assembly.

15. A. The licensee shall distribute only sealed sources and/or devices for which a sealed source and device registration certificate has been issued by the U. S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210(e) or an Agreement State.

B. Distribution is authorized to persons specifically or generally licensed pursuant to 1200-2-10-.12 or 1200-2-10-.10(2) of "State Regulations for Protection Against Radiation", as appropriate, or equivalent provisions of the regulations of the U. S. Nuclear Regulatory Commission or another Agreement State.

16. In distributing devices to generally licensed persons, the licensee shall:

A. Report to the Department at its offices located at 3rd Floor, L & C Annex, 401 Church Street, Nashville, Tennessee 37243-1532, all transfers of such devices to persons for use under the general license in 1200-2-10-.10(2).

B. Report to the U. S. Nuclear Regulatory Commission all transfers of such devices to persons for use under the U.S. Nuclear Regulatory Commission general license in Section 31.5 of 10 CFR Part 31.

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- C. Report to the responsible Agreement State agency all transfers of devices manufactured and distributed pursuant to 1200-2-10-.13(5) for use under a general license in that state's regulations equivalent to 1200-2-10-.10(2).
 - D. Reports required by A, B, and C of this condition shall identify each general licensee by name and address, an individual by name and/or position who may constitute a point of contact between the Department and the general licensee, the type and model number of device transferred, and the quantity and type of radioactive material contained in the device. If one or more intermediate persons will temporarily possess the device at the intended place of use prior to its possession by the user, the report shall include identification of each intermediate person by name, address, contact and relationship to the intended user. If no transfers have been made to persons generally licensed under 1200-2-10-.10(2) during the reporting period the report shall so indicate. The report shall cover each calendar quarter and shall be filed within 30 days thereafter.
 - E. Keep records showing the name, address, and a point of contact for each general licensee to whom he directly or through an intermediate person transfers radioactive material in devices for use pursuant to the general license provided in 1200-2-10-.10(2) or equivalent regulations of the U.S. Nuclear Regulatory Commission, or an Agreement State. The record shall show the date of each transfer, the isotope and quantity of radioactivity in each device transferred, the identity of any intermediate person, and compliance with the report requirements of this condition. The records required by this part shall be maintained for a period of five years from the date of the recorded event.
17. Radioactive material authorized by this license shall be stored at the licensee's facility in Building 5, 801 South Illinois Avenue, Oak Ridge, Tennessee as designated in the documents referenced in Condition 33 of this license.
18. Radioactive material authorized by this license may be used at the licensee's facility in Condition 17 of this license and at temporary job sites of the licensee, in areas not under exclusive Federal jurisdiction, throughout the State of Tennessee.

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Before radioactive materials can be used at a temporary job site at any federal facility, the jurisdictional status of the job site must be determined. If the jurisdictional status is unknown, the Federal agency should be contacted to determine if the job site is under exclusive Federal jurisdiction. A response should be obtained in writing or a record should be made of the name and title of the person at the Federal agency who provided the determination and the date that it was provided. Authorization for use of radioactive materials at job sites under exclusive Federal jurisdiction shall be obtained either by: (1) filing an NRC Form-241 in accordance with 10 CFR 150.20(b), "Recognition of Agreement State Licenses", or (2) by applying for a specific NRC license.

Before radioactive materials can be used at a temporary job site in another State, authorization shall be obtained from the State if it is an Agreement State, or from the NRC for any non-Agreement State, either by filing for reciprocity or applying for a specific license.

19. Any design and production changes of licensed devices to be distributed in the USA shall be approved by this Department before implementation.
20. The licensee shall maintain complete and accurate records of the receipt and disposal of radioactive material. The licensee shall, for radioactive material no longer useful for any purpose and for any equipment or supplies contaminated with such material for which further use and decontamination is not planned, define those materials as radioactive waste and treat them as such in accordance with the following provisions:
 - A. Radioactive waste material shall not be stored with non-radioactive waste.
 - B. A written record of all radioactive waste material shall be maintained until it has been determined by a suitable survey or radioassay that it has decayed to background levels or until it has been shipped to an authorized recipient in accordance with all applicable regulations. Accountability of radioactive waste material prepared for shipment but not yet shipped from the licensee's premises shall be maintained by the licensee by an internal record system such that the licensee is constantly aware of the material's location and the

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proposed time of shipment. Individuals who are involved in the shipping of such material and/or the storage of such material prior to shipment, shall be trained in the precautions necessary for such handling and storage.

- C. For material which has decayed to background levels as determined by radioassay or external level as measured with appropriately calibrated instruments, records shall indicate that the material was determined to be no longer radioactive and will indicate the methods and results of the survey or analysis.
- D. Shipment records of radioactive waste material shall be maintained and the licensee shall require written confirmation from the authorized recipient of such material that this material has been received.
- E. All records and written confirmations required by this condition shall be maintained for inspection by the Department.

The requirements for this condition are in addition to any other requirements for the handling and/or disposal of radioactive material contained in this license and "State Regulations for Protection Against Radiation."

- 21. A. Sealed sources authorized by this license shall be tested for leakage and/or contamination at intervals not to exceed three (3) years except for Item Q which is not required to be tested. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to transfer, the sealed source shall not be put into use until tested.
- B. The tests shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surface of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.

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- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Division of Radiological Health, Tennessee Department of Environment and Conservation, 3rd Floor L&C Annex, 401 Church Street, Nashville, Tennessee, 37243-1532, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons authorized by this Department, the U. S. Nuclear Regulatory Commission or another Agreement State to perform such services.
22. The licensee shall not open sealed sources or remove them from their source holders except that sources may be removed during Part II Audits as described in Procedure Number 0010 attached to letter dated May 22, 1997, and as authorized in Condition 14 of this license.
23. The licensee is authorized to perform leak tests of customer sealed sources and possess any radioactive material contained on the test media as a result of the tests in accordance with the documents referenced in Condition 33 of this license. Records of leak tests in microcuries shall be provided to the customer.
24. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under this license. Records of inventories shall be maintained for inspection by the Department.
25. After installation, the licensee shall survey each device distributed under this license for radiation levels and conduct a test for proper operation of the on-off mechanism and indicator, if any. Records of these surveys and tests shall be provided to the recipient of the device.
26. The licensee shall test each device distributed under this license for leakage of radioactive material. A record of this test shall be provided to the recipient of the device.

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27. No generally licensed device shall be installed by the licensee in such a manner or in such a location that any person could receive more than 0.5 rem in a calendar year under ordinary circumstances of use.
28. A. The licensee shall furnish a copy of the general license contained in 1200-2-10-.10(2) to each person to whom he directly or through an intermediate person transfers radioactive material in a device for use pursuant to the general license contained in 1200-2-10-.10(2).
- B. The licensee shall furnish a copy of the general license contained in the U. S. Nuclear Regulatory Commission's or Agreement State's regulation equivalent to 1200-2-10-.10(2), or alternatively, furnish a copy of the general license contained in 1200-2-10-. 10(2), to each person to whom he directly or through an intermediate person transfers radioactive material in a device for use pursuant to the general license of the U.S. Nuclear Regulatory Commission or the Agreement State. If a copy of the general license in 1200-2-10-.10(2) is furnished to such person, it shall be accompanied by a note explaining that use of the device is regulated by the U.S. Nuclear Regulatory Commission or an Agreement State under requirements substantially the same as those in 1200-2-10-.10(2).
29. The licensee shall provide training for general licensees at the time of device installation in accordance with Berthold Technologies Procedure Number 0003 issued February 23, 1997.
30. Each device distributed to general licensees shall bear a durable, legible, clearly visible label or labels approved by the Department which contain in a clearly identified and separate statement:
1. Instructions and precautions for safe installation, operation, and servicing of the device (documents such as operating and service manual may be identified in the label and used to provide this information);
 2. The requirements, or lack of requirement, for leak testing, or for testing any on-off mechanism and indicator, including the maximum time interval for such testing, and identification of the radioactive material by isotope, quantity; and

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3. The information called for in the following statement in the same or similar form:

The receipt, possession, use, and transfer of this device Model _____, Serial No. _____, are subject to a general license or the equivalent and the regulations of the U.S. Nuclear Regulatory Commission or of a State with which the NRC has entered into an agreement for the exercise of regulatory authority. This label shall be maintained on the device in a legible condition. Removal of this label is prohibited.

CAUTION - RADIOACTIVE MATERIAL

(Name of manufacturer or distributor)

Note: If specified elsewhere in labeling affixed to the device, the model, serial number, and manufacturer or distributor may be omitted from this label.

31. No maintenance, repair, or testing of any licensed device in which the shutter is required to be open shall be performed at the licensee's authorized place of use unless the device is on the floor within the storage room with the primary radiation beam directed to the floor. The licensee shall perform surveys for these events in accordance with SRPAR 1200-2-5-.61. Records of these surveys shall be maintained for inspection by the Department.
32. No provision of this license relieves the licensee from compliance with other Federal, State and local laws, ordinances, and regulations applicable to the licensee's activities.
33. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in the following documents:
 - license application dated December 2, 1996, with attachments, and resubmitted application dated January 14, 1997
 - "Application for Registration of Radioactive Sealed Sources in Devices" dated October 16, 1996, amended January 5, 1997, March 13, 1997, and November 21, 1997

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- "Application for Registration of Radioactive Sealed Sources in Devices" dated March 10, 1997, amended May 23, 1997, August 18, 1997, August 19, 1997, August 26, 1997, October 15, 1997, and October 16, 1997
- "Application for Registration of Radioactive Sealed Sources in Devices" dated June 20, 1997, amended September 8, 1997
- "Application for Registration of Radioactive Sealed Sources in Devices" dated October 14, 1997
- "Application for Registration of Radioactive Sealed Sources and Devices" dated March 1, 1998, with attachments
- "Application for Registration of Radioactive Sealed Sources in Devices" dated March 7, 1998, with attachments, received May 27, 1998
- "Application for Registration of Radioactive Sealed Sources and Devices" dated May 28, 1998, with attachments
- "Application for Registration of Radioactive Sealed Sources in Devices" dated November 17, 1998, with attachments
- "Application to Register A Radioactive Sealed Source in a Shielding" dated January 26, 1999
- letters dated October 17, 1996, with attachments, January 7, 1997, with attachments, January 8, 1997, January 14, 1997, (three letters, one with attachment, one with attachments), January 20, 1997, January 28, 1997, (three letters, all with attachments), February 4, 1997, with attachments, February 18, 1997, with attachments, February 24, 1997, (two letters, one with attachments including EG&G Berthold Quality Manual), March 6, 1997, with attachments, (including EG&G Berthold USA Manufacturing Quality Assurance Manual received March 7, 1997), March 7, 1997, with attachment, March 10, 1997, March 11, 1997, with attachments, March 12, 1997, with attachments,

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March 19, 1997, amended March 25, 1997, March 26, 1997, with attachments, March 31, 1997, April 1, 1997, (two letters, one with attachments), May 5, 1997, with attached photographs, May 21, 1997, with attachment, May 22, 1997, (two letters, both with attachments), June 2, 1997, with attachments, June 16, 1997, with attachments, June 20, 1997, with attachments, August 18, 1997, with attachments, August 27, 1997, September 8, 1997, with attachments, September 16, 1997, October 14, 1997, with attachments, October 20, 1997, October 30, 1997, November 21, 1997, with attachments, December 17, 1997, with attachments, January 8, 1998, with attachments, January 29, 1998, February 10, 1998, with attachments, March 9, 1998, with attachments, March 12, 1998, with attachments, April 6, 1998, with attachments, April 16, 1998, with attachments, April 22, 1998, with attachments, May 10, 1998, with attachments, May 26, 1998, with attachments, May 27, 1998, with attachments, June 1, 1998, with attachments, June 2, 1998, with attachments, July 1, 1998, with attachments, July 16, 1998, July 17, 1998, with attachments, July 20, 1998, with attachments, July 31, 1998, with attachments, August 12, 1998, August 12, 1998, with attachments, August 27, 1998, (two letters), September 10, 1998, November 18, 1998, with attachments, November 24, 1998, January 11, 1999, with attachments, February 5, 1999, with attachments, February 8, 1999, with attachments, February 12, 1999, with attachments, February 18, 1999, with attachments, February 25, 1999, with attachments, March 1, 1999, with attachments, March 12, 1999, March 17, 1999, April 1, 1999, with attachments, April 5, 1999, with attachments, April 14, 1999, with attachment, April 22, 1999, April 22, 1999, with attachments, May 18, 1999, May 26, 1999, June 3, 1999, with attachments, June 9, 1999, with attachments, June 18, 1999, June 28, 1999, with attachments, July 28, 1999, with attachments, August 20, 1999, with attachments, September 10, 1999, with attachments, October 12, 1999, with attachments, October 24, 1999, with attachments, October 27, 1999, with attachment, November 1, 1999, December 14, 1999, with attachments, January 24, 2000, with attachments, February 23, 2000, with attachments, May 3, 2000, June 15, 2000, August 10, 2000, October 3, 2000, October 27, 2000, with attachments, November 7, 2000, with attachments, and November 27, 2000

- letter received April 30, 1997, with attachments, drawing received June 4, 1997
- telefaxes dated February 27, 1997, March 13, 1997, (two), June 3, 1997, and January 11, 1999

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- telephone conversation with Jami Holbert on November 21, 1997, and Gus Norton on February 28, 2000

34. The licensee is authorized to use radioactive material authorized by this license to conduct a training/demonstration session in accordance with statements, representations, and procedures contained in telefax dated January 11, 1999, and letter dated January 11, 1999, with attachments.
35. The licensee is authorized to distribute two Model LB 7444 devices each with lead collimator inserted into the shutter aperture to Arteva Specialties S.A.R.L dba KoSa Salisbury Plant, Highway 70 West, Salisbury, NC 28145, North Carolina Materials License No. 080-0100-2 (identified by EG&G Berthold as Hoechst Celanese, Salisbury Plant, Highway 70 West, Salisbury, NC 28144) in accordance with statements, representations, and procedures contained in letters dated April 14, 1999, with attachment, April 22, 1999, and May 26, 1999.
36. The licensee is authorized to possess, distribute, install, and service LB 7444 devices that have been modified to add the lead collimator insert into the shutter aperture in accordance with the documents referenced in Condition 33 of this license and TN-1031-D-101-B of the Registry. The lead collimator shall be inserted by the device manufacturer except that the licensee may insert the collimator for previously distributed devices and the one device in storage at the licensee's address. The licensee shall insert the collimator into installed devices when called upon to de-mount and service the unit unless this time frame is not acceptable to the regulatory agency maintaining jurisdiction for the location of the installed device. Devices in storage shall have the collimator inserted as soon as possible. The licensee shall contact the regulatory agency maintaining jurisdiction for its concurrence in the time frame for insertion, and shall provide written verification to them and the Department of its completion. The licensee shall provide written notification of this authorization to its customers with LB 7444 devices installed before the date of this amendment.

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License Number R-01082-D02

Berthold Technologies U.S.A., LLC
801 South Illinois Avenue
Oak Ridge, TN 37830

Attention: Martin A. Norton, Acting General Manager

Gentlemen:

As requested by Martin A. Norton and in accordance with his letters dated December 4, 2000, with attachments including Registry Application, January 4, 2001, with attachments, and revised Registry Application dated January 19, 2001, with attachment, your Tennessee Radioactive Material License Number R-01082-D02 is amended as follows:

To add:

6. Radioactive Material (Element and Mass Number)	8. Chemical and/or Physical Form	9. Maximum Radioactivity and/or Quantity of Material Which Licensee May Possess at Any One Time
R. Cesium 137	R. Sealed source (AEA Technologies Model CDC.700, Capsule X.7)	R. No single source to exceed 90 microcuries.

10. Authorized Use

R. Receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Model LB 7501 gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.

To change Conditions 21 and 33. These conditions will now read as follows:

21. A. Sealed sources authorized by this license shall be tested for leakage and/or contamination at intervals not to exceed three (3) years except for Items Q and R which are not required to be

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tested. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to transfer, the sealed source shall not be put into use until tested.

- B. The tests shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surface of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Division of Radiological Health, Tennessee Department of Environment and Conservation, 3rd Floor, L&C Annex, 401 Church Street, Nashville, Tennessee, 37243-1532, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons authorized by this Department, the U. S. Nuclear Regulatory Commission or another Agreement State to perform such services.
33. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in the following documents:
- license application dated December 2, 1996, with attachments, and resubmitted application dated January 14, 1997
 - "Application for Registration of Radioactive Sealed Sources in Devices" dated October 16, 1996, amended January 5, 1997, March 13, 1997, and November 21, 1997
 - "Application for Registration of Radioactive Sealed Sources in Devices" dated March 10, 1997, amended May 23, 1997, August 18, 1997, August 19, 1997, August 26, 1997, October 15, 1997, and October 16, 1997
 - "Application for Registration of Radioactive Sealed Sources in Devices" dated June 20, 1997, amended September 8, 1997
 - "Application for Registration of Radioactive Sealed Sources in Devices" dated October 14, 1997

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- "Application for Registration of Radioactive Sealed Sources and Devices" dated March 1, 1998, with attachments
- "Application for Registration of Radioactive Sealed Sources in Devices" dated March 7, 1998, with attachments, received May 27, 1998
- "Application for Registration of Radioactive Sealed Sources and Devices" dated May 28, 1998, with attachments
- "Application for Registration of Radioactive Sealed Sources in Devices" dated November 17, 1998, with attachments
- "Application to Register A Radioactive Sealed Source in a Shielding" dated January 26, 1999
- letters dated October 17, 1996, with attachments, January 7, 1997, with attachments, January 8, 1997, January 14, 1997, (three letters, one with attachment, one with attachments), January 20, 1997, January 28, 1997, (three letters, all with attachments), February 4, 1997, with attachments, February 18, 1997, with attachments, February 24, 1997, (two letters, one with attachments including EG&G Berthold Quality Manual), March 6, 1997, with attachments, (including EG&G Berthold USA Manufacturing Quality Assurance Manual received March 7, 1997), March 7, 1997, with attachment, March 10, 1997, March 11, 1997, with attachments, March 12, 1997, with attachments, March 19, 1997, amended March 25, 1997, March 26, 1997, with attachments, March 31, 1997, April 1, 1997, (two letters, one with attachments), May 5, 1997, with attached photographs, May 21, 1997, with attachment, May 22, 1997, (two letters, both with attachments), June 2, 1997, with attachments, June 16, 1997, with attachments, June 20, 1997, with attachments, August 18, 1997, with attachments, August 27, 1997, September 8, 1997, with attachments, September 16, 1997, October 14, 1997, with attachments, October 20, 1997, October 30, 1997, November 21, 1997, with attachments, December 17, 1997, with attachments, January 8, 1998, with attachments, January 29, 1998, February 10, 1998, with attachments, March 9, 1998, with attachments, March 12, 1998, with attachments, April 6, 1998, with attachments, April 16, 1998, with attachments, April 22, 1998, with attachments, May 10, 1998, with attachments, May 26, 1998, with attachments, May 27, 1998, with attachments, June 1, 1998, with attachments, June 2, 1998, with attachments, July 1, 1998, with attachments, July 16, 1998, July 17, 1998, with attachments, July 20, 1998, with attachments, July 31, 1998, with attachments, August 12, 1998, August 12, 1998, with attachments, August 27, 1998, (two letters), September 10, 1998, November 18, 1998, , with attachments, November 24, 1998, January 11, 1999, with attachments, February 5, 1999, with attachments, February 8, 1999, with attachments, February 12, 1999, with attachments, February 18, 1999, with attachments, February 25, 1999,

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with attachments, March 1, 1999, with attachments, March 12, 1999, March 17, 1999, April 1, 1999, with attachments, April 5, 1999, with attachments, April 14, 1999, with attachment, April 22, 1999, April 22, 1999, with attachments, May 18, 1999, May 26, 1999, June 3, 1999, with attachments, June 9, 1999, with attachments, June 18, 1999, June 28, 1999, with attachments, July 28, 1999, with attachments, August 20, 1999, with attachments, September 10, 1999, with attachments, October 12, 1999, with attachments, October 24, 1999, with attachments, October 27, 1999, with attachment, November 1, 1999, December 14, 1999, with attachments, January 24, 2000, with attachments, February 23, 2000, with attachments, May 3, 2000, June 15, 2000, August 10, 2000, October 3, 2000, October 27, 2000, with attachments, November 7, 2000, with attachments, November 27, 2000, December 4, 2000, with attachments including Registry Application, and January 4, 2001, with attachments

- revised Registry Application dated January 19, 2001, with attachment
- letter received April 30, 1997, with attachments, drawing received June 4, 1997
- telefaxes dated February 27, 1997, March 13, 1997, (two), June 3, 1997, and January 11, 1999
- telephone conversations with Jami Holbert on November 21, 1997, and Gus Norton on February 28, 2000

All other parts of this license remain unchanged.

Date January 22, 2001

For the Commissioner
Tennessee Department of
Environment and Conservation

By Charles Arnott
Charles Arnott
Health Physicist
Division of Radiological Health

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License Number R-01082-D02

Berthold Technologies U.S.A., LLC
99 Midway Lane
Oak Ridge, TN 37831

Attention: Martin (Gus) Norton, General Manager

Gentlemen:

As requested by Martin (Gus) Norton and in accordance with his letters dated March 27, 2001, with attachments, May 3, 2001, with attachments, and May 17, 2001, (two letters this date, one with attachments), and in accordance with letters dated May 16, 2001, with attachments, and May 17, with attachments, from Art Metcalf, your Tennessee Radioactive Material License Number R-01082-D02 is amended as follows:

To change Items 2, 10.A, 10.B., 10.C., 10.D., and 10.E. and Conditions 13, 17 and 33. These items and these conditions will now read as follows:

2. 99 Midway Lane
Oak Ridge, TN 37831

- 10.A. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7440 D/F/DE/FE/CR, LB 7442 D/F/DE/FE/CR, LB 7444, LB 7444 CR, LB 7445 D/F/DE/FE, LB 7446 D/F/DE/FE, or LB 300 LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- 10.B. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7440 D/F/DE/FE/CR, LB 7442 D/F/DE/FE/CR, LB 7445 D/F/DE/FE, LB 7446 D/F/DE/FE, or LB 300 LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- 10.C. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7440 D/F/DE/FE/CR, LB 7445 D/F/DE/FE, or LB 300 LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.

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- 10.D. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7442 D/F/DE/FE/CR, LB 7446 D/F/DE/FE, or LB 300 LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- 10.E. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7440 D/F/DE/FE/CR, LB 7445 D/F/DE/FE, or LB 300 LP Series gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
- 13.A. Radioactive material authorized by this license shall be used by individuals who have been trained in accordance with statements, representations, and procedures contained in the documents referenced in Condition 33 of this license. Records of training shall be maintained for inspection by the Department.
- B. The Radiation Safety Officer for this license is Mark Morgan. The Alternate Radiation Safety Officer for this license is Martin (Gus) Norton.
17. Radioactive material authorized by this license may be stored at the licensee's facility in Building 5, 801 South Illinois Avenue, Oak, Ridge, TN as designated in the documents referenced in Condition 33 of this license, or at the licensee's new facility at 99 Midway Lane, Oak Ridge, TN in accordance with statements, representations, and procedures contained in letters dated May 3, 2001, with attachments, May 16, 2001, with attachments, and May 17, 2001, with attachments. Once the move to the new facility is completed a radiation survey of the 801 South Illinois Avenue storage area shall be made to verify that no radioactive material remains at that location. An inventory shall confirm the presence of all possessed sources at the new facility. A record of this survey and inventory shall be maintained for inspection by the Department.
33. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in the following documents:
- license application dated December 2, 1996, with attachments, and resubmitted application dated January 14, 1997
 - "Application for Registration of Radioactive Sealed Sources in Devices" dated October 16, 1996, amended January 5, 1997, March 13, 1997, and November 21, 1997

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- "Application for Registration of Radioactive Sealed Sources in Devices" dated March 10, 1997, amended May 23, 1997, August 18, 1997, August 19, 1997, August 26, 1997, October 15, 1997, and October 16, 1997
- "Application for Registration of Radioactive Sealed Sources in Devices" dated June 20, 1997, amended September 8, 1997
- "Application for Registration of Radioactive Sealed Sources in Devices" dated October 14, 1997
- "Application for Registration of Radioactive Sealed Sources and Devices" dated March 1, 1998, with attachments
- "Application for Registration of Radioactive Sealed Sources in Devices" dated March 7, 1998, with attachments, received May 27, 1998
- "Application for Registration of Radioactive Sealed Sources and Devices" dated May 28, 1998, with attachments
- "Application for Registration of Radioactive Sealed Sources in Devices" dated November 17, 1998, with attachments
- "Application to Register A Radioactive Sealed Source in a Shielding" dated January 26, 1999
- letters dated October 17, 1996, with attachments, January 7, 1997, with attachments, January 8, 1997, January 14, 1997, (three letters, one with attachment, one with attachments), January 20, 1997, January 28, 1997, (three letters, all with attachments), February 4, 1997, with attachments, February 18, 1997, with attachments, February 24, 1997, (two letters, one with attachments including EG&G Berthold Quality Manual), March 6, 1997, with attachments, (including EG&G Berthold USA Manufacturing Quality Assurance Manual received March 7, 1997), March 7, 1997, with attachment, March 10, 1997, March 11, 1997, with attachments, March 12, 1997, with attachments, March 19, 1997, amended March 25, 1997, March 26, 1997, with attachments, March 31, 1997, April 1, 1997, (two letters, one with attachments), May 5, 1997, with attached photographs, May 21, 1997, with attachment, May 22, 1997, (two letters, both with attachments), June 2, 1997, with attachments, June 16, 1997, with attachments, June 20, 1997, with attachments, August 18, 1997, with attachments, August 27, 1997, September 8, 1997, with attachments, September 16, 1997, October 14, 1997, with attachments, October 20, 1997, October 30, 1997, November 21, 1997, with attachments, December 17, 1997, with attachments, January 8, 1998, with attachments, January 29, 1998, February 10, 1998, with attachments, March 9, 1998, with attachments, March 12, 1998, with attachments, April 6, 1998, with attachments,

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9, 1998, with attachments, March 12, 1998, with attachments, April 6, 1998, with attachments, April 16, 1998, with attachments, April 22, 1998, with attachments, May 10, 1998, with attachments, May 26, 1998, with attachments, May 27, 1998, with attachments, June 1, 1998, with attachments, June 2, 1998, with attachments, July 1, 1998, with attachments, July 16, 1998, July 17, 1998, with attachments, July 20, 1998, with attachments, July 31, 1998, with attachments, August 12, 1998, August 12, 1998, with attachments, August 27, 1998, (two letters), September 10, 1998, November 18, 1998, , with attachments, November 24, 1998, January 11, 1999, with attachments, February 5, 1999, with attachments, February 8, 1999, with attachments, February 12, 1999, with attachments, February 18, 1999, with attachments, February 25, 1999, with attachments, March 1, 1999, with attachments, March 12, 1999, March 17, 1999, April 1, 1999, with attachments, April 5, 1999, with attachments, April 14, 1999, with attachment, April 22, 1999, April 22, 1999, with attachments, May 18, 1999, May 26, 1999, June 3, 1999, with attachments, June 9, 1999, with attachments, June 18, 1999, June 28, 1999, with attachments, July 28, 1999, with attachments, August 20, 1999, with attachments, September 10, 1999, with attachments, October 12, 1999, with attachments, October 24, 1999, with attachments, October 27, 1999, with attachment, November 1, 1999, December 14, 1999, with attachments, January 24, 2000, with attachments, February 23, 2000, with attachments, May 3, 2000, June 15, 2000, August 10, 2000, October 3, 2000, October 27, 2000, with attachments, November 7, 2000, with attachments, November 27, 2000, December 4, 2000, with attachments including Registry Application, January 4, 2001, with attachments, March 27, 2001, with attachments, May 3, 2001, with attachments, May 16, 2001, with attachments, and May 17, 2001, (three letters this date, two with attachments)

- revised Registry Application dated January 19, 2001, with attachment
- letter received April 30, 1997, with attachments, drawing received June 4, 1997
- telefaxes dated February 27, 1997, March 13, 1997, (two), June 3, 1997, and January 11, 1999
- telephone conversations with Jami Holbert on November 21, 1997, and Gus Norton on February 28, 2000

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All other parts of this license remain unchanged.
Date May 17, 2001

For the Commissioner
Tennessee Department of
Environment and Conservation

By Charles Arnott
Charles Arnott
Health Physicist
Division of Radiological Health

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License Number R-01082-D02

Berthold Technologies U.S.A., LLC
99 Midway Lane
Oak Ridge, TN 37831

Attention: Martin (Gus) Norton, General Manager

Gentlemen:

As requested by Martin (Gus) Norton and in accordance with his letters dated January 24, 2001, with attachments, and June 14, 2001, and in accordance with our action to change Condition 16, your Tennessee Radioactive Material License Number R-01082-D02 is amended as follows:

To change Item 10.R. and Conditions 16 and 33. This item and these conditions will now read as follows:

- 10.R. For receipt, possession, distribution, and storage as installed by the device manufacturer within Berthold Technologies Models LB 7501 or LB 7501 CR gamma gauge. Also, for receipt, possession, distribution, and storage within transport shieldings. The source activity for each device shall not exceed that authorized in the appropriate Registry of Radioactive Sealed Sources and Devices issued by the State of Tennessee.
16. In distributing devices to generally licensed persons, the licensee shall:
- A. Report to the Department at its offices located at 3rd Floor, L & C Annex, 401 Church Street, Nashville, Tennessee 37243-1532, all transfers of such devices to persons for use under the general license in 1200-2-10-.10(2).
 - B. Report to the U. S. Nuclear Regulatory Commission all transfers of such devices to persons for use under the U.S. Nuclear Regulatory Commission general license in Section 31.5 of 10 CFR Part 31.
 - C. Report to the responsible Agreement State agency all transfers of devices manufactured and distributed pursuant to 1200-2-10-.13(5) for use under a general license in that state's regulations equivalent to 1200-2-10-.10(2).
 - D. Reports required by A, B, and C of this condition shall identify each general licensee by name; mailing address for the location of use; the name, title, and phone number of a responsible individual defined as "the person identified by the general licensee as having knowledge of and authority to take required actions to ensure compliance with the appropriate regulations and requirements"; the serial number and model number of the device; date of transfer; name and

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license number of the reporting company; the specific reporting period; the type of device transferred; and the quantity and type of radioactive material contained in the device. If one or more intermediate persons will temporarily possess the device at the intended place of use prior to its possession by the user, the report shall include identification of each intermediate person by name, address, contact and relationship to the intended user. If no transfers have been made to persons generally licensed under 1200-2-10-.10(2) during the reporting period the report shall so indicate. The report shall cover each calendar quarter and shall be filed within 30 days thereafter.

E. Keep records showing the name, address, and a responsible individual for each general licensee to whom he directly or through an intermediate person transfers radioactive material in devices for use pursuant to the general license provided in 1200-2-10-.10(2) or equivalent regulations of the U.S. Nuclear Regulatory Commission, or an Agreement State. The record shall show the date of each transfer, the isotope and quantity of radioactivity in each device transferred, the identity of any intermediate person, and compliance with the report requirements of this condition. The records required by this part shall be maintained for a period of five years from the date of the recorded event.

33. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 8, and 9 of this license in accordance with statements, representations, and procedures contained in the following documents:

- license application dated December 2, 1996, with attachments, and resubmitted application dated January 14, 1997
- "Application for Registration of Radioactive Sealed Sources in Devices" dated October 16, 1996, amended January 5, 1997, March 13, 1997, and November 21, 1997
- "Application for Registration of Radioactive Sealed Sources in Devices" dated March 10, 1997, amended May 23, 1997, August 18, 1997, August 19, 1997, August 26, 1997, October 15, 1997, and October 16, 1997
- "Application for Registration of Radioactive Sealed Sources in Devices" dated June 20, 1997, amended September 8, 1997
- "Application for Registration of Radioactive Sealed Sources in Devices" dated October 14, 1997
- "Application for Registration of Radioactive Sealed Sources and Devices" dated March 1, 1998, with attachments

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- "Application for Registration of Radioactive Sealed Sources in Devices" dated March 7, 1998, with attachments, received May 27, 1998
- "Application for Registration of Radioactive Sealed Sources and Devices" dated May 28, 1998, with attachments
- "Application for Registration of Radioactive Sealed Sources in Devices" dated November 17, 1998, with attachments
- "Application to Register A Radioactive Sealed Source in a Shielding" dated January 26, 1999
- letters dated October 17, 1996, with attachments, January 7, 1997, with attachments, January 8, 1997, January 14, 1997, (three letters, one with attachment, one with attachments), January 20, 1997, January 28, 1997, (three letters, all with attachments), February 4, 1997, with attachments, February 18, 1997, with attachments, February 24, 1997, (two letters, one with attachments including EG&G Berthold Quality Manual), March 6, 1997, with attachments, (including EG&G Berthold USA Manufacturing Quality Assurance Manual received March 7, 1997), March 7, 1997, with attachment, March 10, 1997, March 11, 1997, with attachments, March 12, 1997, with attachments, March 19, 1997, amended March 25, 1997, March 26, 1997, with attachments, March 31, 1997, April 1, 1997, (two letters, one with attachments), May 5, 1997, with attached photographs, May 21, 1997, with attachment, May 22, 1997, (two letters, both with attachments), June 2, 1997, with attachments, June 16, 1997, with attachments, June 20, 1997, with attachments, August 18, 1997, with attachments, August 27, 1997, September 8, 1997, with attachments, September 16, 1997, October 14, 1997, with attachments, October 20, 1997, October 30, 1997, November 21, 1997, with attachments, December 17, 1997, with attachments, January 8, 1998, with attachments, January 29, 1998, February 10, 1998, with attachments, March 9, 1998, with attachments, March 12, 1998, with attachments, April 6, 1998, with attachments, April 16, 1998, with attachments, April 22, 1998, with attachments, May 10, 1998, with attachments, May 26, 1998, with attachments, May 27, 1998, with attachments, June 1, 1998, with attachments, June 2, 1998, with attachments, July 1, 1998, with attachments, July 16, 1998, July 17, 1998, with attachments, July 20, 1998, with attachments, July 31, 1998, with attachments, August 12, 1998, August 12, 1998, with attachments, August 27, 1998, (two letters), September 10, 1998, November 18, 1998, , with attachments, November 24, 1998, January 11, 1999, with attachments, February 5, 1999, with attachments, February 8, 1999, with attachments, February 12, 1999, with attachments, February 18, 1999, with attachments, February 25, 1999, with attachments, March 1, 1999, with attachments, March 12, 1999, March 17, 1999, April 1, 1999, with attachments, April 5, 1999, with attachments, April 14, 1999, with attachment, April 22, 1999, April 22, 1999, with attachments, May 18, 1999, May 26, 1999, June 3, 1999, with attachments, June 9, 1999, with attachments, June 18, 1999, June 28, 1999, with attachments,

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF RADIOLOGICAL HEALTH**

RADIOACTIVE MATERIAL LICENSE

Amendment 35

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License Number R-01082-D02

July 28, 1999, with attachments, August 20, 1999, with attachments, September 10, 1999, with attachments, October 12, 1999, with attachments, October 24, 1999, with attachments, October 27, 1999, with attachment, November 1, 1999, December 14, 1999, with attachments, January 24, 2000, with attachments, February 23, 2000, with attachments, May 3, 2000, June 15, 2000, August 10, 2000, October 3, 2000, October 27, 2000, with attachments, November 7, 2000, with attachments, November 27, 2000, December 4, 2000, with attachments including Registry Application, January 4, 2001, with attachments, January 24, 2001, with attachments, March 27, 2001, with attachments, May 3, 2001, with attachments, May 16, 2001, with attachments, May 17, 2001, (three letters this date, two with attachments), and June 14, 2001

- revised Registry Application dated January 19, 2001, with attachment
- letter received April 30, 1997, with attachments, drawing received June 4, 1997
- telefaxes dated February 27, 1997, March 13, 1997, (two), June 3, 1997, and January 11, 1999
- telephone conversations with Jami Holbert on November 21, 1997, and Gus Norton on February 28, 2000

**All other parts of this license remain unchanged.
Date June 18, 2001**

**For the Commissioner
Tennessee Department of
Environment and Conservation**

By Charles Arnott
**Charles Arnott
Health Physicist
Division of Radiological Health**