



Mark Parkinson, Governor
Roderick L. Bremby, Secretary

DEPARTMENT OF HEALTH
AND ENVIRONMENT

www.kdheks.gov

Division of Health

September 20, 2010

Kansas Information Notice 10-03

Gulf Nuclear model AmBe-71-2A special form certification expiring 1/31/2012, see attached copy

Addressees

This notice is addressed to all well logging licensees

Purpose

The purpose of this information notice is to provide information from the Department of Energy's Off-site Source Recovery Project (OSRP) as related to the Gulf Nuclear model AmBe-71-2A.

Description of Circumstances

OSRP wishes to encourage persons who possess these particular sources to take advantage of the window of time to dispose of them. OSRP recently renewed an older Gulf Nuclear (Model AmBe 71-2A) special form certificate for a phase-out with a limited transition period for disposal related transportation. Review of the documentation OSRP and registered users had on file convinced OSRP that OSRP cannot continue unrestricted certification.

Without special form certification these multi-curie sources can no longer be transported in Type A packages. Their users will be required to employ Type B packages for their transportation. Because of the more rigorous performance standards for Type B packages, they are considerably more expensive.

OSRP wishes to assist any persons who possess these sources to divest themselves of them while the special form certification is still in effect. If you possess any of these sources and wish to dispose of them, please contact OSRP and register them at <http://osrp.lanl.gov/>.

Also attached to this information notice is an offer from Gammatron regarding final disposition of these sources. KDHE is providing the Gammatron document as information for licensees. By providing this information, KDHE does not imply an endorsement of the services described.

Discussion

No specific action is required as a result of this information notice. If you have questions regarding this information notice, please contact the Kansas Department of Health and Environment, Radiation Control Section at 785-296-1560.



U.S. Department
of Transportation
Pipeline and
Hazardous Materials
Safety Administration

IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0149/S-96, REVISION 7

East Building, PHH-23
1200 New Jersey Avenue Southeast
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - Gulf Nuclear Model AmBe 71-2A source capsules manufactured prior to March 8, 1988.
2. Source Description - Source capsule is a welded double encapsulation constructed of stainless steel. The outer capsule measures a minimum of 25.4 mm (1.0 in.) in diameter and a maximum of 203.0 mm (8.0 in.) in length. Source capsule must have been constructed in accordance with attached Gearhart Drawing No. 003-4706-014, Rev. 1.
3. Radioactive Contents - The source capsule contains not more than 0.74 TBq (20.0 Ci) of Americium-241 mixed with beryllium as pellets.
4. Special Conditions -
 - a. This certificate is valid only for one-time transport for disposal of Gulf Nuclear Model AmBe 71-2A source capsules.
 - b. Capsules must have no known or suspected defects.
 - c. Capsules must have a current satisfactory leak test in accordance with license conditions.
5. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.

¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

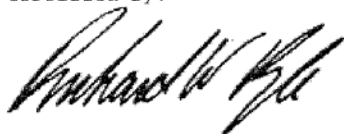
² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

CERTIFICATE USA/0149/S-96, REVISION 7

6. Expiration Date - This certificate expires on January 31, 2012.

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the April 07, 2010 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:

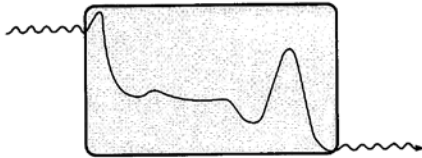


Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Jul 23 2010

(DATE)

Revision 7 - Issued to extend the expiration date for transition to phase out capsule certification.



GAMMATRON

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Acceptance of Gulf Nuclear 71-2A sources

If you are a radioactive material licensee in possession of one or more Gulf Nuclear Model 71-2A 20 Curie Americium 241 Beryllium neutron source, Gammatron can offer you two possible options for their final disposition.

Option 1

Gammatron can purchase these sources from your company if you no longer have a useful need for them. Gammatron can offer \$5,000.00 per 20 Curie source after receipt at Gammatron's facility and inspection of the source. You will need to provide all following documentation prior to shipment of any sources to Gammatron:

- 1) A copy of your Radioactive Material License
- 2) A photo of the source to be shipped
- 3) A current leak test
- 4) Transport container 7A certification

Option 2

Gammatron can re-manufacture your 20 Curie 71-2A source into a Gammatron model AN-HP 15-16 Curie source. The activity of this new AN-HP will be less than the "Quantity of Concern" that requires additional security measures and National Source Tracking notifications that are required by NRC regulations. Based on our previous history of re-manufacturing these sources, we normally achieve approximately 85 % of the original neutron output or better.

If the licensee would rather have 5 Curie sources, Gammatron can take the 20 Curie 71-2A and make four 5 Curie AN-HP ¾" x 2" source capsules.

The cost for re-manufacturing is \$20,800 for a 15-16 Curie source and \$13,000 for each 5 Curie source. No credit will be given for any leftover activity from the original source. Payment for re-manufacturing will be made prior to receipt of the licensee's 71-2A source(s) at Gammatron's facility.

The following documentation will need to be provided prior to any shipment of sources to Gammatron for re-manufacture:

- 1) A copy of your Radioactive Material license showing you are authorize for Gammatron's Model AN-HP.
- 2) A photo of the source(s) to be re-manufactured.
- 3) A current leak test certificate.
- 4) Transport container 7A certificate.