



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 1, 2014

Joseph D Koch, PhD
Radiation Safety Officer
High Energy Devices, LLC
26 Hollenberg Court
Bridgeton, Missouri 63044

SUBJECT: HIGH ENERGY DEVICES, LLC, REQUEST FOR ADDITIONAL INFORMATION
CONCERNING APPLICATION FOR LICENSE RENEWAL

Dear Dr. Koch:

This letter refers to your license renewal request, dated March 26, 2014, and serves as a follow-up to our first request for additional information, dated May 19, 2014. In response to your subsequent correspondence, dated June 13, 2014, we are writing to clarify specifically the information, outlined in 10 CFR 32.14, required for your renewal application. If you have already submitted any these materials in the past, as a part of a previous application, you must re-submit these materials at this time.

1. In accordance with 10 CFR 32.14(b)(2), please provide details of the construction and design of each product, including any associated blueprints/diagrams.
2. In accordance with 10 CFR 32.14(b)(3), please indicate the method of containment or binding of the byproduct material in the product.
3. You have indicated that three byproduct materials are used in your electron tubes: Ni-63, Cs-137 and Kr-85. In accordance with 10 CFR 32.14(b)(7), please provide the levels of radiation introduced by each electron tube containing byproduct material and the method of measurement used to obtain this measurement. The radiation level for any given electron tube may not exceed 1 mrad per hour at 1 cm from any surface when measured through 7 mg/cm² of absorber.
4. In accordance with 10 CFR 32.16, you must submit a report annually to the NRC, detailing transfers taking place during the previous calendar year. You have submitted a report for the 2013 transfer period; however, this report does not provide units of measurement for the numerical amounts listed for each radionuclide (i.e. whether the number corresponds

to the number of units or a measure of total activity). Furthermore, it appears that you have not submitted exempt distribution transfer reports for the reporting periods from 2008 through 2012. Please submit/resubmit reports for the reporting periods from 2008 through 2013 at this time, and be sure to include the following required information:

- identification of the licensee, including the license number;
- indication that the products transferred for use under 10 CFR 30.15 or equivalent Agreement State regulation(s);
- a description and/or identification of the type of each product, including the model number(s) (if applicable);
- the total quantity of each radionuclide contained in each type of product/model; and
- the number of units of each type of product transferred, by model number (if applicable), during the reporting period.

Note that these reports do not need to list transfers by month, but only need to list the total number of units of each device type or model transferred throughout the calendar year covered in each report. Also, if no transfers take place during a given reporting period, you are still required to submit a report stating so explicitly.

We will continue our review upon receipt of this information. If we do not receive a reply from you within 30 calendar days from the date of this letter, we will assume that you do not wish to pursue your application.

In accordance with 10 CFR 2.390 of NRC's "Agency Rules of Practice and Procedure," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC web site at <http://www.nrc.gov/reading-rm/adams.html>.

If you have any questions, you may contact me at (301) 415-7640, or by electronic mail at Shirley.Xu@nrc.gov. Any correspondence regarding your exempt-distribution license renewal application should reference mail control number 583783.

Sincerely,

/RA/

Shirley S. Xu
Licensing Branch
Division of Materials Safety and State Agreements
Office of Federal and State Materials and
Environmental Management Programs

Docket No. 030-33623
Mail Control Number: 583783
License Number: 24-26366-02E

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OFC	FSME/MSSA/LB	FSME/MSSA/LB	FSME/MSSA/LB	FSME/MSSA/LB
NAME	JVazquez	SXu	MKotzalas	SXu
DATE	07/01/2014	07/01/2014	07/01/2014	07/01/2014

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