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Document Control Desk  
Director, Office of Federal and State Materials  
And Environmental Management Programs  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

This letter is written in order to comply with Title 10 CFR Part 32, Specific Domestic Licenses to Manufacture or Transfer Certain Items Containing Byproduct Material, effective December 17, 2007.

Licensee: Detector Electronics Corporation      License Number: 22-18199-02E  
6901 W. 110<sup>th</sup> Street  
Minneapolis, MN 55438

Authorized use:

Pursuant to Section 32.14, 10 CFR Part 32, "Specific Domestic Licenses to manufacture or Transfer Certain Items Containing Byproduct Material": the licensee is authorized to distribute electron tubes containing not more than 30 microcuries of Krypton-85 to persons exempt from licensing pursuant to Section 30.15, 10 CFR Part 30, or equivalent provisions of the regulation of any Agreement State. This is specifically addressed in line #9 of U.S. Nuclear Regulatory Commission Materials License #22-18199-02E.

Product Description:

This Product Transfer Report is for our gas filled source tube which is the only radioactive item we transfer to customers. It is used for generating ultraviolet light in our fire detection systems. The following amount of Krypton-85 transferred since our last reporting period was 2.948 Millicuries and covers the time frame of 1/1/15 – 12/31/15.

Radionuclide per tube:

Each source tube contains approximately 1 microcurie of Krypton-85 gas. This has been calculated via Mass Spectrometry Analysis (see Attachment G-7). The number of units produced in 2015 was 2,948. Therefore, we calculate the amount of Krypton-85 transferred to be 2.948 Millicuries, as mentioned in the Product Description paragraph.

Sincerely,

A handwritten signature in black ink, appearing to read "Kent Dougherty".

Kent Dougherty  
Radiation Safety Officer  
952.829.8718

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