PURDUE UNIVERSITY



OFFICE OF HEALTH PHYSICS AND RADIOLOGICAL CONTROL

April 14, 1986

U.S. Nuclear Regulatory Commission, Region III Materials Licensing Section 799 Roosevelt Road Glen Ellyn, IL 60137 13-02812-04 13-02812-04 13-0380069485

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Dear Sirs:

This letter is to request an amendment to our U.S. Nuclear Regulatory Commission broad scope license 13-02812-04 for the addition of the following transuranics which may be contained in ash from a nuclear power plant incinerator.

Pu-239	1	μCi
Pu-238	1	μCi
Pu-241	100	μCi
Am-241	1	μCi
Cm-242	1	μCi
Cm-244	1	μCi

Incinerator ash from a nuclear power plant will be analyzed for the presence of the above isotope and returned to the power plant when finished.

If any additional information is required to expedite your review of this request, I will be pleased to provide you with such information. I may be reached by phone at (317) 494-6232.

Sincerely,

Gordon S. Born, Ph.D.

Radiological Control Officer

GSB: mjw

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13-02812-04 A 030.00696 5/30/85 fee exempt

PURDUE UNIVERSITY OFFICE OF HEALTH PHYSICS AND

RADIOLOGICAL CONTROL

March 25. 1986

U.S. Nuclear Regulatory Commission, Region III Materials Licensing Section 799 Roosevelt Road Glen Ellyn, IL 60137

Peremal 18802

Dear Sirs:

This letter is to request an amendment to our U.S. NRC broad scope license 13-02812-04 for the addition of the following isotopes and amounts:

		TYZ.	
Gd-153	300 Ci	142 days	1172 nel
Dy-159	300 Ci	144 d	,347 mel
Tm-170	300 Ci	1589	.084 med
Tb-160	300 Ci	72 d	81,312

These isotopes are to be used for research and development as sealed Mossbauer sources. The sources and shields will be fabricated at the University of Missouri so that the sources cannot be removed from the shield without special tools. Sources and shields will only be shipped to Purdue if the exposure rate is less than 10 mR/hr at the surface of the shield.

For use at Purdue University the beam port will be opened by removing two 8-32 screws which allow the beam plug to be removed with tweezers. The beam size will be 0.3 inches in diameter. Sources will not be removed from the shields at Purdue University.

These sources will be leak tested upon receipt and at the interval in our general license. Anyone handling these sources will have extremity monitoring in addition to a whole body badge.

If any additional information is required to expedite your review of this request, I will be pleased to provide you with such information. I may be reached by phone at (317) 494-6232.

Sincerely.

Gordon S. Born, Ph.D
Radiological Control Officer WAR 28 1986

RECTOR III

GSB/1w

Pharmacy Building West Lafavette, Indiana 47907

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