



**CENTRAL MICHIGAN
UNIVERSITY**

*Office of the Dean
College of Science and Technology
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Note: area code will change to
(989) effective August 19, 2000*

June 19, 2007

United States Nuclear Regulatory Commission,
Region III
ATTN: Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

To Whom It May Concern:

This letter represents an amendment to NRC License #21-01432-02 for Central Michigan University. This amendment requests:

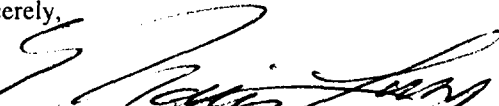
1. To add an isotope to our license as follows:


Material	Chemical and/or physical form	Proposed License Limit
Lead-210 (Pb-210)	Sealed source	40 microcuries

We are proposing the addition of Lead-210 to fit the needs of Physics. They would like to purchase small sealed sources for calibration purposes. In particular, they would like to purchase a sealed source from Isotope Products Labs that contains 0.3 μ Ci Pb-210 (see attached).

We hope this information is sufficient to allow for an amendment to our license. If any additional information or a clarification is necessary, please contact Jennifer Walton at (989) 774-4189.

Sincerely,


Marvis Lary, Ph.D.
Dean, College of Health Professions


Jennifer Walton, Ph.D., CIH
Radiation Safety Officer/Safety Coordinator, College of Science and Technology

RECEIVED JUN 25 2007

7600 ML

Isotope	Half-Life Years or Days	Gamma Ray (MeV)	Photons/ Decay	% Activity	(μ Ci)	Activity in 1 μ Ci, kBq	Photons/s per μ Ci
Cd-109	462.6d	0.088	0.0363	42.0	0.420	15.5	564
Co-57	271.79d	0.122	0.856	1.6	0.016	0.592	507
		0.137	0.107				
Ce-139	137.64d	0.166	0.799	2.0	0.020	0.740	591
Hg-203	46.595d	0.279	0.815	6.0	0.060	2.22	1809
Sn-113	115.09d	0.392	0.649	7.6	0.076	2.81	1825
Sr-85	64.849d	0.514	0.984	9.6	0.096	3.55	3495
Cs-137	30.17y	0.662	0.851	7.0	0.070	2.59	2204
Co-60	5.272y	1.173	0.999	8.2	0.082	3.03	3031
			1.333				
Y-88	106.63d	0.898	0.940	16.0	0.160	5.92	5565
			1.836				

7600 ML + Am-241

Am-241	432.17y	0.060	0.360	3.0	0.030	1.11	400
Cd-109	462.6d	0.088	0.0363	42.0	0.420	15.5	564
Co-57	271.79d	0.122	0.856	1.6	0.016	0.592	507
			0.137				
Ce-139	137.64d	0.166	0.799	2.0	0.020	0.740	591
Hg-203	46.595d	0.279	0.815	6.0	0.060	2.22	1809
Sn-113	115.09d	0.392	0.649	7.6	0.076	2.81	1825
Sr-85	64.849d	0.514	0.984	9.6	0.096	3.55	3495
Cs-137	30.17y	0.662	0.851	7.0	0.070	2.59	2204
Co-60	5.272y	1.173	0.999	8.2	0.082	3.03	3031
			1.333				
Y-88	106.63d	0.898	0.940	16.0	0.160	5.92	5565
			1.836				

7600 ML + Am-241 + Pb-210

Pb-210	22.3y	0.046	0.0418	30.0	0.300	11.10	464
Am-241	432.17y	0.060	0.360	3.0	0.030	1.11	400
Cd-109	462.6d	0.088	0.0363	42.0	0.420	15.5	564
Co-57	271.79d	0.122	0.856	1.6	0.016	0.592	507
			0.137				
Ce-139	137.64d	0.166	0.799	2.0	0.020	0.740	591
Hg-203	46.595d	0.279	0.815	6.0	0.060	2.22	1809
Sn-113	115.09d	0.392	0.649	7.6	0.076	2.81	1825
Sr-85	64.849d	0.514	0.984	9.6	0.096	3.55	3495
Cs-137	30.17y	0.662	0.851	7.0	0.070	2.59	2204
Co-60	5.272y	1.173	0.999	8.2	0.082	3.03	3031
			1.333				
Y-88	106.63d	0.898	0.940	16.0	0.160	5.92	5565
			1.836				

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