



November 5, 1984

Mr. Bruce Mallett, PhD, Chief
Material Licensing Branch
Division of Fuel Cycle and
Material Safety
U.S. Nuclear Regulatory
Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Re: Amendment to License No. 12-18215-01

Dear Mr. Mallett:

The following is additional information in answer to your questions in our phone conversation of November 2, 1984.

Elements to be increased to one Curie limit for isotopes on our license are:

Sodium (Na)	Silicon (Si)	Sulfur (S)	Calcium (Ca)
Scandium (Sc)	Manganese (Mn)	Iron (Fe)	Cobalt (Co)
Zinc (Zn)	Germanium (Ge)	Arsenic (As)	Selenium (Se)
Rubidium (Rb)	Strontium (Sr)	Yttrium (Y)	Zirconium (Zr)
Niobium (Nb)	Molybdenum (Mo)	Technetium (Tc)	Ruthenium (Ru)
Rhodium (Rh)	Silver (Ag)	Cadmium (Cd)	Tin (Sn)
Antimony (Sb)	Tellurium (Te)	Iodine (I)	Cesium (Cs)
Barium (Ba)	Cerium (Ce)	Promethium (Pm)	Samarium (Sm)
Europium (Eu)	Gadolinium (Gd)	Terbium (Tb)	Dysprosium (Dy)
Holmium (Ho)	Thulium (Tm)	Lutetium (Lu)	Hafnium (Hf)
Tantalum (Ta)	Tungsten (W)	Rhenium (Re)	Osmium (Os)
Iridium (Ir)	Platinum (Pt)	Gold (Au)	Thallium (Tl)
Lead (Pb)			

The limit for Thulium-170 only will be 50 Ci.

Isotope identification labels will be used on storage container or holder head labels with the specific isotope symbol, activity quantity and activity date written on it.

All sources of any type are inspected and qualified with equipment and per procedures outlined in our December 14, 1983 letter to Mr. John Hickey. Our procedures for Iodine are also used for all other sources. We require each manufacturer to provide us with a Leak Test Certificate for each source and we inspect each source for quantity and quality.

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Mr. Bruce Mallett
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Ed Polz's training as a Nuclear Mechanical Operator involved the maintenance of all equipment associated with the reactor at DLG Prototype Balsten Spa, New York. This included the responsibility of replacing valves which were contaminated by as much as six curies of Cobalt-60 and safely disposing of them. Mr. Polz is experienced as a trainer for radiation safety on a nuclear submarine. He was a health physics supervisor for Kerr McGee and the eight months of experience he has gained at Lixi, Inc. qualify him as an Assistant Radiation Safety Officer.

For Thulium-170 sources only, we will limit our possession for activity levels between one (1) and fifty (50) curies to ten (10) sources.

If you have any questions, please contact the undersigned.

Sincerely,

Lixi, Inc.



Robert J. Savini
Executive Vice President

RJS/kr

CONVERSATION RECORD		TIME	DATE
TYPE <input type="checkbox"/> VISIT <input type="checkbox"/> CONFERENCE <input checked="" type="checkbox"/> TELEPHONE		11/2/84	
Location of Visit/Conference:		<input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING	
NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU Bob Savini, V.P.	ORGANIZATION (Office, dept., bureau, etc.) Rixi, Inc.	TELEPHONE NO.	
SUBJECT Control # 77477 Amendment to Ric. No. 12-18215-01		ROUTING NAME/SYMBOL INT	
SUMMARY B. Mallett called & stated following items are needed to complete, revised:			
<div style="display: flex;"> <div style="width: 15%; font-size: small;"> <p>did not 1. & 2. not</p> <p>ok 2.</p> <p>licensee tests need to include calibration 12/1/83 at 10:00 AM 5:00 PM to 10:00 PM 12/1/83 12/1/83</p> <p>ok 3.</p> <p>ok 4.</p> <p>2. & 3. not 12/1/83</p> </div> <div style="width: 85%;"> <p>1. Need to list specifically radioisotopes want up to 1 Ci, & 50 Ci.</p> <p>2. Need to specify labeling methods of tests for integrity for sources obtained. labeling of impractical to tag at this time</p> <p>3. Appears R&D is only loading & unloading from Lix-type type devices. Need to describe what procedures for handling and access control you will be using. Those committed to in 12/1/83 letter are adequate.</p> <p>4. Apparently have 2 users for these level of sources Van Pelt and P.H. I will authorize for these two only, since they are only ones qualified. Mr. Savini agreed. Need training/experience with types materials requested for Poly.</p> <p>5. For pocket dosimeters, need calibration procedures and frequency.</p> <p>6. Specify possession total limits for 1 Ci & 50 Ci sources.</p> </div> </div>			
ACTION REQUIRED			
over →			
NAME OF PERSON DOCUMENTING CONVERSATION		SIGNATURE	DATE
ACTION TAKEN			
SIGNATURE Bruce S. Mallett		TITLE	DATE 11/2/84

7. For distribution requests & questions, will call on Mon.
11/5/84 to resolve. Mr. Sarrini stated we could issue R&D
portion & resolve distribution later.

Bruce Maltett