

May 5, 1986

RECEIVED

U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

'86 MAY 12 AM 11:26

U.S. NRC
LIC. FEE MONITORING

Re: US NRC License No. 29-00055-15

Dear Sirs:

As I discussed with Jack Davis of your office on Thursday, May 1, 1986, on Wednesday, April 30 Teledyne Isotopes received three packages (30-gallon Type B drums) of radioactively contaminated platinum to be decontaminated under the conditions of the above-specified license. In accepting the material, it was noticed that the quantities listed on the shipping documents were in excess of our license limits for Pu-239. In researching this matter, it was determined that the quantity of Pu-239 was not in excess, however, the drums did contain other Plutonium isotopes not listed on the specified license. These isotopes are Pu-240, Pu-241 and Pu-242. As Pu-241 has a very high specific activity, the estimated Pu-239 content was originally over-estimated. I have listed the actual quantities below.

<u>Isotope</u>	<u>Millicuries</u>	<u>Grams</u>
Pu-238	18.649	0.001
Pu-239	501.474	8.220
Pu-240	131.424	0.571
Pu-241	1,989.790	0.018
Pu-242	0.012	0.003
Am-241	0.210	<0.0001

As discussed, it seems far safer to store the material in the shipping containers and apply for an amendment to possess and use these plutonium isotopes, than to ship them back and forth across the country.

Therefore, we will not open these containers and they will be kept in a secured area until such time as this license amendment request is either granted or denied. If denied, we would, of course, ship the material back to the original shipper.

License Fee Information
on Next Page.

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REG1 LIC30
29-00055-15 PDR

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"OFFICIAL RECORD COPY"

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U.S. Nuclear Regulatory Commission
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In industry, uranium, plutonium, and other isotopes are usually never found in an isotopically "pure" form, that is 100% Pu-239. It is always found with various other isotopes of the same element. Therefore, we would like to amend the license to indicate this by requesting a specific range of isotopes with both a gram and a Curie maximum.

Therefore, Teledyne Isotopes formally requests an amendment to the above-referenced license to add the following:

<u>By-Product, Source and/or Special Nuclear Material</u>	<u>Chemical and/or Physical Form</u>	<u>Maximum Amount That Licensee May Possess At Any One Time Under This License</u>
Any isotope with an atomic number between 90 and 99 not specifically listed	Any	2 grams total and/or 5 Curies total

All other uses and conditions are to remain the same.

Enclosed please find a check in the amount of \$120.00.

If you have any questions or require clarification, please do not hesitate to contact me.

Sincerely,

TELEDYNE ISOTOPES



Steven A. Black, Manager, RSO
Radiological Services Department.

SAB:jk
Enc.

Log	my 5#
Remitter	
Check No.	43206
Amount	\$120
Fee Category	3P 1R 2G
Type of Fee	Amendment
Date Check Rec'd.	5/12/86
Date Completed	5/14/86
By:	J. A. Black

BEETEN: William O. Miller Chief
License Fee Management Branch
Office of Administration

John E. Glenn, Chief
Nuclear Materials Section B
Division of Engineering and
Technical Programs

03014482

03620

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LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: Teledyne Isotopes

Application Dated: 5/5/86

Control No.: 105437

License No.: 29-00055-15

2. FEE ATTACHED

Amount: \$120.00

Check No.: 43206

3. COMMENTS

Signed Brenda P. Hatchel

Date 5/7/86

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 3P (1K) 2G

2. Correct Fee Paid. Application may be processed for:

Amendment ✓

Renewal

License

Signed H. Jackson

Date 5/14/86