

RECEIVED  
REGION 1

2006 DEC 18 PM 1: 25



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
**NATIONAL OCEAN SERVICE**

Center for Coastal Fisheries and Habitat Research  
101 Pivers Island Road  
Beaufort, North Carolina 28516-9722

December 12, 2006

Mr. Dennis R. Lawyer, Health Physicist  
Commercial R&D Branch  
Division of Nuclear Materials Safety  
US Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

32-00426-02

03005594

J-6

RE: Control No. 139413

Dear Mr. Lawyer:

In accordance with your recent correspondence regarding financial assurance for our license 32-00426-02, we have conducted an inspection of our records and radioactive materials onsite. The only source of Iodine 129 onsite is a standard for an LKB Wallac gamma counter. From this inspection, we have determined, as evidenced by Attachment 1, "Specification of Standard Capsule" that the total activity of the Iodine 129 onsite is a 0.0272  $\mu$ Ci. This is the total amount of Iodine 129 that we have and have had onsite. We have had no release to the site, environment or otherwise of this Iodine 129 standard.

With this determination, we are requesting that our license be changed to reflect the actual amount of activity that we have of Iodine 129 in the gamma counter standard to .03  $\mu$ Ci. We have also attached a photograph as Attachment 2 of the standard vial in question. All other radioactive materials and amounts should remain the same on our license. If you have any questions, please feel to contact Sabrina Pittillo at 252-728-8718.

Sincerely,

David Johnson, Ph.D.  
Center Director

Attachments

Ref.  
(139413)

139844  
NMSS/RGNI MATERIALS-002



## STANDARD CAPSULE

Isotope:

Iodine-129 ( $t_{1/2} = 1.7 \times 10^7$  y)

Activity:

60500 dpm (0.0272  $\mu$ Ci; 1008 Bq)

Approximately equivalent to 48400 dpm

(0.0218  $\mu$ Ci; 807 Bq) iodine-125

Batch No. 1313C

Cat. No 1270-102

## SPECIFICATION OF STANDARD CAPSULE

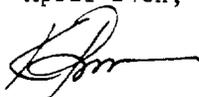
The material of this standard consists of iodine-129 in crystalline form, dispensed as a water solution of sodium iodide into a hollow polyester resin mould. The water was then evaporated and the active sodium iodide powder was sealed with more polyester to prevent the release of free iodine. The standard is then sealed with a plastic plug which is glued into position.

The activity measurement of the standards is based on a comparison with NBS Standard Reference Material No 4949. The estimated accuracy of the absolute activity is  $\pm 3\%$  including the linear sum of both systematic errors and the standard errors (at 99% confidence level) involved in the preparation procedures.

The iodine-129 activity is approximately equivalent to 48400 dpm iodine-125.

The mean activity of the whole production batch was 60500 dpm with a standard deviation of 0.1%

April 24th, 1985



ATTACHMENT 2



This is to acknowledge the receipt of your letter/application dated

12/12/2006, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment 32-00426-02 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

---

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 139844.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.