

NRC FORM 314 (5-92) 10 CFR 30.38(e)(1)(iv) 10 CFR 40.42(e)(1)(iv) 10 CFR 70.38(e)(1)(iv)		U.S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 3160-0028 EXPIRES: 05/31/95	
<b>CERTIFICATE OF DISPOSITION OF MATERIALS</b>					
INSTRUCTIONS: ALL ITEMS MUST BE COMPLETED -- PRINT OR TYPE SEND THE COMPLETED CERTIFICATE TO THE NRC OFFICE SPECIFIED ON THE REVERSE					
LICENSEE NAME AND ADDRESS  Department of Terrestrial Magnetism, Carnegie Institution 5241 Broad Branch Road, N.W. Washington, D.C. 20015				LICENSEE NUMBER  SNM-29	
				LICENSE EXPIRATION DATE  30 November 1993	
<b>A. MATERIALS DATA</b> (Check one and complete as necessary)					
THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT: (Check and/or complete the appropriate item(s) below.)					
<input type="checkbox"/> 1. NO MATERIALS HAVE EVER BEEN PROCURED OR POSSESSED BY THE LICENSEE UNDER THIS LICENSE.					
OR					
<input checked="" type="checkbox"/> 2. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (If additional space is needed, use the reverse side or provide attachments.) Describe specific material transfer actions and, if there were radioactive wastes generated in terminating this license, the disposal actions including the disposition of low-level radioactive waste, mixed waste, Greater-than-Class-C waste, and sealed sources, if applicable.					
See reversed side.					
For transfers, specify the date of the transfer, the name of the licensed recipient, and the recipient's NRC license number or Agreement State name and license number.					
If materials were disposed of directly by the licensee rather than transferred to another licensee, licensed disposal site or waste contractor, describe the specific disposal procedures (e.g., decay in storage).					
9406240070 940606 PDR ADOCK 07000024 C PDR					
<b>B. OTHER DATA</b>					
<input type="checkbox"/> 1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.					
<input type="checkbox"/> 2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)					
<input type="checkbox"/> NO (Attach explanation)					
<input checked="" type="checkbox"/> YES, THE RESULTS (Check one)					
<input checked="" type="checkbox"/> ARE ATTACHED, or					
<input type="checkbox"/> WERE FORWARDED TO NRC ON (Date)					
3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM			NAME Louis Brown		TELEPHONE NUMBER (Include Area Code) 202-686-4415
4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO  Louis Brown at the above address.					
<b>CERTIFYING OFFICIAL</b>					
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT					
PRINTED NAME AND TITLE Louis Brown, Radiation Safe. Off.			SIGNATURE Louis Brown		DATE 9 March 1994
<b>WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECTS. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.</b>					

Procurement and disposal of isotopes obtained through SNM-29.

No isotopes were purchased under this license since the present Radiation Safety Officer assumed responsibility in February 1978 until August 1992. Isotopes were purchased before that time for use as mass spectrometer spikes; microgram quantities suffice for this kind of work. Records neither of purchase nor disposal are available.

On 21 August 1992 2.15  $\mu$ Ci of Th-229 was purchased for which the dealer required the SNM license. It is included in the waste shipment intended to eliminate our stock of radioisotopes now being negotiated through our broker, Radiation Service Organization, Laurel, Maryland with the South Carolina Department of Health and Environmental Control for disposal at the Barnwell site.

Radiation survey of laboratory and storage areas.

On 22 June 1988 a complete survey was made of all laboratory space in the Geochemistry Building in preparation for a complete renovation of the building. This was done in part to assure the building contractor that no hazards were present. All isotopes were stored in a locked, steel cabinet in the vault of the abandoned (1958) cyclotron; the vault was not renovated. Following the renovation, which gutted the building, no work with radioisotopes was undertaken afterwards except Be-7, which has now decayed beyond ten-half lives (the last shipment being 5 June 1990) and the Th-229. The limited work areas were carefully surveyed. No spills were found.

The isotopes now in storage and awaiting transport by air have been reduced from acid solution to dry form in absorbent material and are stored in the cabinet. The cabinet and surrounding areas have been surveyed for spills with none found.

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