



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-4006**

January 17, 2006

Carroll College  
ATTN: Sam Alvey  
Radiation Safety Officer  
1601 N. Benton Avenue  
Helena, Montana 59625

**SUBJECT: TERMINATION OF YOUR NRC RADIOACTIVE MATERIALS LICENSE**

By correspondence dated January 17, 2005, and October 10, 2005, you notified the U.S. Nuclear Regulatory Commission (NRC) that you wished to terminate your NRC radioactive materials license number 25-07093-01. Enclosed in your correspondence was supporting documentation to release the site for unrestricted use pursuant to 10 CFR Part 20, Subpart E, "Radiological Criteria for License Termination."

The NRC staff has completed its review of your submittal, which included documentation of the disposal of byproduct material by either: 1) transfer to a licensed recipient, or 2) disposal by release into sanitary sewerage under 10 CFR 20.2003. Additionally, your submittal included a dose modeling evaluation based on RESRAD Version 6.22 default parameters, for the one time burial of carbon-14 on June 30, 1961, and a final status survey of your facility.

Burial of certain quantities of radioactive waste in soil by licensees without prior NRC approval was authorized on January 29, 1959 (22 FR 548). Originally, this authorization was codified in former 10 CFR 20.304. On January 28, 1981, the NRC concluded that it was inappropriate to continue generic authorizations of burials pursuant to 10 CFR 20.304 without regard to factors such as location of burial, concentrations of radioactive material, form of packaging, and notification of NRC, and therefore NRC rescinded 10 CFR 20.304 (45 FR 71761).

The NRC analyzed the onsite burial of carbon-14 under the current regulatory guidance of 10 CFR 20.1402, and determined that it met the criteria for unrestricted use. The final status survey adequately demonstrated that Carroll College meets the criteria in 10 CFR 20.1402 for unrestricted use. Please find enclosed the Environmental Assessment, dated January 17, 2006, for this licensing action. Based on these conclusions no further remediation or actions with respect to NRC regulated material is required. Your facility is suitable for unrestricted use and NRC license number 25-07093-01 is hereby terminated. A notice of this licensing action will also be published in the **Federal Register**.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Thank you for your cooperation. If you have any questions, please contact me at (817) 276-6552.

Sincerely,

*/RA/*

Rachel S. Browder, Health Physicist  
Nuclear Materials Licensing Branch

Docket: 030-00873  
License: 25-07093-01  
Control: 470734

Enclosure: As stated

**CHECKLIST****NUREG 1757 - Appendix C: CHECKLIST OF ACTIONS TO BE COMPLETED BY NRC STAFF UPON RECEIPT OF LICENSED FACILITIES NOTIFICATION OF INTENT TO CEASE LICENSED OPERATIONS**

**Facility Information:** License No.: 25-07093-01 Docket No.: 030-00873

Facility Name: Carroll College  
Address: 1601 N. Benton Avenue  
Address: Helena, Montana 59625

Project Manager: Rachel S. Browder  
Date of Notification: October 10, 2005

Carroll College was determined to be Group 2

Group 2 Licensees (Refer to Section 9.1 of NUREG 1757)  
(Enter Y or N)

<u>Yes</u>	Licensee demonstrated compliance with 10 CFR Part 20.1402 (Radiological criteria for unrestricted use) using the screening methodology.
<u>N/A</u>	Licensee possessed and used only sealed sources and cannot demonstrate current leak tight integrity.
	Licensee used sealed and unsealed material. The sealed sources did not leak.
<u>Yes</u>	Complete an Environmental Assessment (EA).
<u>N/A</u>	Confirmatory survey or side-by-side survey completed. This depends on the licensee's survey and radioactive material use at the facility.
	NRC staff reviewed the licensee's survey and determined they were satisfactory.
<u>Yes</u>	Issue Federal Register Notice to announce FONSI.

Note: Group 2 decommissioning licensees would not be required to develop a DP.

***(If Licensee is designated as Group 2 or 3, then you may end the Checklist here!)***  
***(Please Go to the Last Page)***

Radioactive Material Disposition

Yes Form 314 or equivalent submitted:

Yes Staff verified disposition of sealed sources or unsealed radioactive material by one of the following:

Yes Letter from Form 314 Recipient

\_\_\_\_\_ Call to Form 314 Recipient

Comments:

Radioactive Material Records Disposition

Yes Licensee transfer of records discussed in 10 CFR 30.35, 30.36, 30.51; 40.36, 40.42, 40.61; or 70.25, 70.38, 70.51:

Yes To U. S. NRC

\_\_\_\_\_ To individual assuming responsibility for the license, with a copy of the cover letter to the U.S. NRC.

Comments: NRC has records in their docket file.

Confirmatory or Side-by-Side Survey

Yes Termination survey submitted by licensee.

Yes Termination survey satisfies NRC survey requirements.

N/A Confirmatory or Side-by-Side survey performed:

Comments: The final survey was satisfactory and indicated the laboratory room and counting room were background.

## Materials License Termination/Retirement Form

LICENSE #:	25-07093-01	DOCKET #:	030-00873
LICENSEE:	Carroll College	EXPIRATION DATE:	January 17, 2006
	Sam Alvey	DATE OF CONTACT:	July 30, 2003, January 17, 2005, October 10, 2005
	Radiation Safety Officer	CONTACTED BY:	Dr. Sam Alvey
ADDRESS:	1601 N. Benton Avenue	TITLE:	Radiation Safety Officer
	Helena, Montana 59625	TELEPHONE:	406-447-4313
		EMAIL:	<u>salvey@carroll.edu</u>

LICENSE TERMINATED: January 17, 2006

BASIS FOR TERMINATION AND/OR RETIREMENT: Licensee requested termination for unrestricted use. Based on the transfer of radioactive materials, disposal of radioactive materials and RESRAD evaluation of the carbon-14 one time burial on June 30, 1961, the NRC staff determined that the license may be terminated for unrestricted use based on the license termination criteria in 10 CFR Part 20, Subpart E, "Radiological Criteria for License Termination."

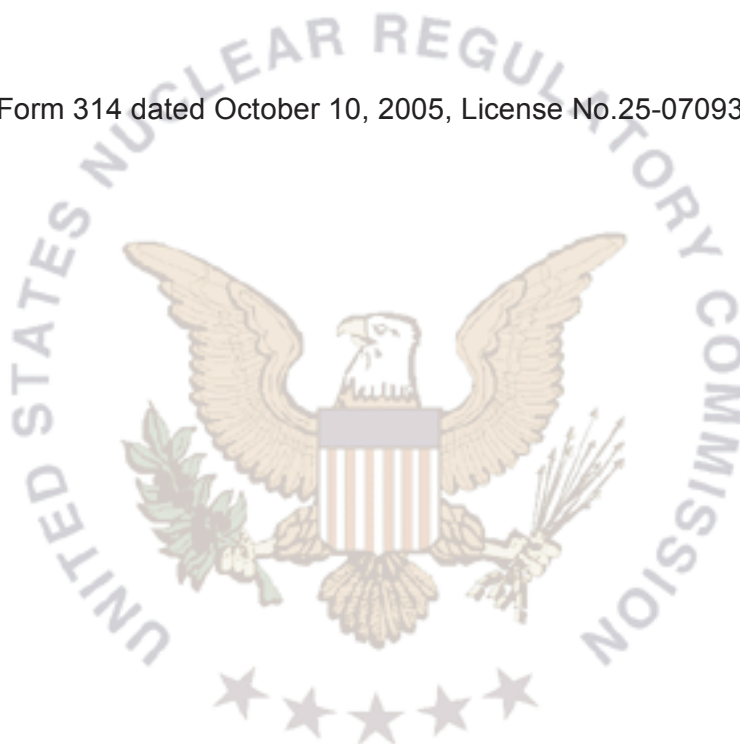
Licensing staff completing form: <u>    /RA/    </u> Rachel S. Browder	Date: 1/17/06
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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
25-07093-01Docket or Reference Number  
030-00873

Amendment No. 12

Carroll College  
Department of Natural Sciences  
1601 N. Benton Avenue  
Helena, Montana 59625

In accordance with NRC Form 314 dated October 10, 2005, License No.25-07093-01 is hereby terminated.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

*/RA/*Date: January 17, 2006

By: \_\_\_\_\_

Rachel S. Browder, Health Physicist  
Nuclear Materials Licensing Branch  
Region IV  
Arlington, Texas 76011