



United States Department of the Interior

GEOLOGICAL SURVEY
Reston, VA 22092



September 10, 1996

*Received
Have copy 9/23/96
EAW*

United States Nuclear Regulatory Commission
Region II
101 Marietta Street, N.W., Suite 2900
Atlanta, GA 30323-0199

Attn: Earl G. Wright
Senior License Reviewer
Division of Nuclear Materials Safety

License No. 45-15923-01
Expiration Date: November 30, 2000
Mail Control No.: 258959

Dear Mr. Wright:

This letter requests an amendment to License No. 45-15923-01. The requested amendment addresses several items in your July 29, 1996 letter in addition other changes are necessary to reflect the changes in program and personnel.

Dr. Charles Naeser has completed the 24 hours of classroom training provided by Mr. Michael Terpilak. Attached is a copy of Mr. Terpilak's letter, regarding Dr. Naeser's training. Dr. Naeser has also received "on-the-job training" from Mr. Gregory Wandless, the current RSO. This training began on or about June 1, 1996, and will continue until this amendment request is granted. This training has encompassed a wide variety of day-to-day operated tasks. It is Mr. Wandless' impression that Dr. Naeser is now fully qualified to perform the duties of RSO. As such the USGS wishes to request that Dr. Charles Naeser be listed as RSO for this license (45-15923-01) and for SMB-237, and SNM-1330.

In recent years the USGS has been reducing the scope of the license activities that are performed at the Reston location. We, therefore, wish to make the following changes to the sources section of the license.

- 6A. Hydrogen 3 - remove - see attached disposal manifest shipping date 11-20-91
- 6B. Carbon 14 - increase to 15 millicuries (555 MBq)
- 6C. Phosphorus 32 - remove - no record for receipt of, none on recent inventory
- 6D. Phosphorus 33 - remove - no record for receipt of, none on recent inventory
- 6E. Sulfur 35 - remove - no record for receipt of, none on recent inventory
- 6F. Chlorine 36 remove - no record for receipt of, none on recent inventory
- 6G. Cobalt 60 - remove - records indicate that two 7.2 uCi sealed sources were transferred to the Denver Federal Center, January 1990. These were the only Cobalt 60 sealed sources held on the license.
- 6H. Cobalt 60 - remove - see attached memo to Todd Eastman of ATG regarding amending the inventory of waste pickup.

*Control #
258959*

- 6I. Nickel 63 - no change, will provide NRC with information regarding status of GC sealed sources on or before October 31, as per your request in Item 2 B. of letter dated July 29, 1996.
- 6J. Nickel 63 - no change, as above.
- 6L. Iron 55 - remove - see attached disposal manifest shipping date 8-30-96
- 6M. Strontium 89 - remove - see attached disposal manifest shipping date 8-30-96
- 6N. Strontium 90 - remove - see attached disposal manifest shipping date 8-30-96
- 6O. Tin 113 - remove - see attached disposal manifest shipping date 8-30-96
- 6P. Antimony 125 - remove - no record for receipt of, none on recent inventory
- 6Q. Barium 133 - remove - see attached disposal manifest shipping date 8-30-96
- 6R. Cesium 137 - remove - no sealed sources on record
- 6S. Cesium 137 - remove - see attached disposal manifest shipping date 8-30-96
- 6T. Promethium 147 - remove - see attached disposal manifest shipping date 8-30-96
- 6U. Protactinium 231 - remove - see attached disposal manifest shipping date 8-30-96
- 6V. Neptunium 237 - no change - in storage until disposal permitted
- 6W. Americium 241 - increase to 1.1 mCi. During the shutdown of the INAA project and transfer of licensed material to the "Hot Rock" shed for storage in early 1996, a vial containing 1 mCi of ²⁴¹Am was discovered. This source and the sealed sources (Item 6X.) will be placed in storage until such time as disposal is permitted.
- 6X. Americium 241 - no change - in storage until disposal permitted.
- 6Y. Any byproduct material - no change.
- 6Z. Technetium 99 - remove - no record for receipt of, none on recent inventory

The following people should be removed as authorized users:

- 12A. Allan Tanner - retired
- 12D. Philip A. Baedecker - retired
- 12H. Derek R. Lovely - no longer at USGS
- 12I. John W. Morgan - retired
- 12L. Micheal J. Pickering - no longer at USGS
- 12M. John F. Sutter - no longer using license materials
- 12O. Joan Woodward - retired

These changes will ensure that the license held by the USGS will better reflect the activities involving licensed material. We would greatly appreciate this amendment be expedited. Should you have any question you contact Mr. Gregory Wandless at (703)648-6189 or Dr. Charles Naeser at (703) 648-8964.

Sincerely,



Gregory Wandless
Radiation Safety Officer

cc: Jim Devine, MS 106
Curt Larsen, MS 953
Gary Kramer, MS 246
Wayne Martin, MS 954
Michael Terpilak
RSO file

US Geological Survey
 Neston, VA

CHEM-NUCLEAR CO

GENERATOR NAME

CONTINU

(20) ITEM NO	(21) RADIO NUCLIDE EACH CONTAINER	(22) PERCENT OF ACTIVITY OR mCi OF EACH NUCLIDE	(23) ACTIVITY EACH CONTAINER (mCi)	(24) PHYSICAL FORM	(25) CHEMICAL FORM AND NAME & % OF CHELATING AGENT	(26) WASTE DESCRIPTION	(27) WASTE FORM CLASS
4 G-1	Au 195	0.01	14,7165	Solid	Chlorides	Lab trash (paper, plastic, mineral, glass, soil, rocks, cardboard, rubber) and powders - ores - minerals	A
	Ba 133	1.275					
	Bi 207	0.02					
	Bi 210	0.155					
	Cd 109	0.01					
	Co 57	0.005					
	Cs 137	0.0021					
	Eu 152	0.003					
	Fe 55	0.026					
	Gd 153	3.8E-8					
	Ge 68	0.01					
	Na 22	0.1					
	Pu 234	0.007					
	Pb 210	2E-6					
	Pm 147	1.55					
	Pb 210	5E-6					
	Sn 113	1E-8					
	Tl 204	0.01					
	U (Nat)	0.0353					
	U (dep)	3E-9					
Sc 49	4.0						
Fe 57	3.0						
Cs 137	0.5						
Sr 90	3.0						
Sr 89	1.0						

powder, reagents & ores
 ↓
 rock samples in vials
 ↓
 dry standards in vials
 (centered in plastic jar in middle of drum - soil used for shielding only)
 ↓
 * inside of drum is contaminated from decay daughters

14,7165

PAGE TOTALS



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA STREET, N.W., SUITE 2900
ATLANTA, GEORGIA 30323-0199

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INFORMATION FOR NRC MATERIAL LICENSEES

Please find enclosed:

- Your NRC material license
- Amendment to your NRC material license
- Amendment renewing your NRC material license
- Amendment terminating your NRC material license
- Notice for Radiographer Quality Assurance Approval Program

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify this office (ATTN: Ms. Diane Heim at (404) 331-4673) so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day in the month and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR 19, "Notice, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Not possess and use materials authorized in Items 6, 7, and 8, on the license until:
 - a. you have constructed the facilities and obtained the equipment described in the license application and supporting documentation; and
 - b. you have notified the U. S. Nuclear Regulatory Commission, Region II, ATTN: Materials Licensing/Inspection Branch, in writing, that activities authorized by the license will be initiated.
 - c. you have submitted and certified implementation of a Quality Management Program (10 CFR 35.32) for radiotherapy, or for administering > 30 uCi of I-125 or I-131.
3. Notify NRC, in writing, within 30 days:
 - a. when an authorized user, Radiation Safety Officer, or Teletherapy Physicist permanently discontinues performance of duties under the license or has a name change; or
 - b. when the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).
4. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:
 - a. when you decide to terminate all activities involving materials authorized under the license; or
 - b. if you decide not to complete the facility, acquire equipment, or possess and use authorized material.

5. Request and obtain a license amendment before you:
- a. receive or use byproduct material for a clinical procedure permitted under Part 35 but not permitted by your license issued pursuant to this part.
 - b. permit anyone, not authorized under 10 CFR 35, Subpart J, to work as an authorized user under a license for medical use of byproduct material.
 - c. permit anyone, not authorized under 10 CFR 35, Subpart J, to work as a Radiation Safety Officer, Teletherapy Physicist, or Nuclear Pharmacist, under a license for medical use of byproduct material.
 - d. order byproduct material in excess of the amount, or a different radionuclide or form, other than authorized on the license;
 - e. add or change the areas of use or address (or addresses) of use identified in the license application or on the license; or
 - f. change ownership of your organization.
6. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. Transfer of licensed materials must be consistent with 10 CFR 30.41, 40.51 or 70.42, as applicable. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a Notice of Violation, or imposition of a Civil Penalty, or an order suspending, modifying or revoking your license as specified in the "General Statement of Policy and Procedures for NRC Enforcement Actions," NUREG-1600, (7/95). Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken against those who do not achieve the necessary attention to detail and standard of compliance expected of licensees.

Thank you for your cooperation.

Enclosures:

1. NRC License
2. Category Marked Below for:
 - New licenses: NUREG-1600 (7/95); 19; 20; 30; 40 or 70, as appropriate; 71; 170; NRC Form 3; Agreement State list; and NRC Form 313.
 - New radiography licenses: Parts 34; 150.
 - New medical and teletherapy licenses: Part 35.
 - Amendments and renewals: NRC Form 313.

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