

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee

- 1. Department of the Army
U.S. Army Communications -
Electronics Command AMSEL-SF-RER
- 2. Fort Monmouth, New Jersey 07703-5024

In accordance with the letter dated February 11, 1999, 3. License number 29-01022-06 is amended in its entirety to read as follows:

4. Expiration date February 28, 2005

5. Docket No. 030-05248 Reference No.

6. Byproduct, source, and/or special nuclear material

- A. Any byproduct material with atomic numbers 1 through 83
- B. Any byproduct material with atomic numbers 84 through 95
- C. Hydrogen 3
- D. Cobalt 60
- E. Strontium 90
- F. Cesium 137
- G. Uranium (Natural or Depleted)
- H. Thorium (Natural)
- I. Polonium 210
- J. Plutonium 238
- K. Americium 241
- L. Californium 252
- M. Cesium 137

7. Chemical and/or physical form

- A. Any
- B. Any
- C. Accelerator targets
- D. Sealed sources
- E. Sealed sources
- F. Sealed sources
- G. Any
- H. Any
- I. Any
- J. Sealed sources
- K. Any
- L. Sealed source
- M. Sealed sources (J.L. Shepherd Model 6810)

8. Maximum amount that licensee may possess at any one time under this license

- A. Not to exceed 1 curie per radionuclide and 10 curies total
- B. Not to exceed 1 millicurie total
- C. 30 curies
- D. 7 curies
- E. 5 curies
- F. 7 curies
- G. 5 kilograms
- H. 10 kilograms
- I. 10 microcuries
- J. 10 microcuries
- K. 1 millicurie
- L. 1 curie
- M. 1 curies

Ex 2

Ex 2

11 Q/24

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 2
FOIA- 06-0238

TELEPHONE CONVERSATION LOG

PERSON CALLED:

Richard Lovell

ORGANIZATION:

Dept. of Army Ft. Monmouth

TELEPHONE NUMBER:

732-427-4427

LICENSE NUMBER:

29-01022-06

DOCKET NUMBER:

030-05248

MAIL CONTROL NUMBER:

127250

PERSON CALLING:

Steve W. Shaffer (610) 337-5256
 USNRC Region I FAX Numbers
 475 Allendale Road (610) 337-5269 or
 King of Prussia, PA 19406 (610) 337-5393

SUBJECT: Letters dated September 10, 1999

SUMMARY:

I requested that they clarify the situation with the two letters dated September 10, 1999. Mr. Lovell stated that they did want both locations each stated in a separate letter authorized for waste storage. I requested a detailed description of the site at the Evans area and a description of how they were going to delineate the storage area. I requested a description of the waste to be stored in both areas, posting commitments, and a detailed description of how the waste was to be stored.

I also mentioned the problems that have been recently encountered regarding moisture leaking from shipping containers that were stored outside for periods of time. Mr Lovell stated that the army would carefully inspect their containers prior to shipment in order to avoid possible shipping problems.

ACTION REQUIRED/TAKEN:

Milestone 15

SIGNATURE:

SW
 Steve W. Shaffer

DATE: September 22, 1999

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
29-01022-06

Docket or Reference Number
030-05248

Amendment No. 47

- | | | |
|-------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------|
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form | 8. Maximum amount that licensee may possess at any one time under this license |
| N. Cesium 137 | N. Sealed source (J.L. Shepherd Model 6810) | N. [260] curies Exd |
| O. Cesium 137 | O. Sealed source (J.L. Shepherd Model 6810) | O. 130 millicuries |

9. Authorized use:

- A. Research and development as defined in 10 CFR 30.4; for training and instrument calibrations; analysis of test samples as a service for persons as defined in 10 CFR 20.1003; calibration of instruments as a service for persons as defined in 10 CFR 20.1003 and the storage of contaminated materials.
- B. through L. Research and development as defined in 10 CFR 30.4; for training and instrument calibrations; analysis of test samples as a service for persons as defined in 10 CFR 20.1003; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.
- M. For use in a J.L. Shepherd Model 81-14Q calibrator; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.
- N. and O. For use in a J.L. Shepherd Model 89-260 calibrator; calibration of instruments as a service for persons as defined in 10 CFR 20.1003.

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at the U.S. Army Communications - Electronics Command, Fort Monmouth, New Jersey.
11. A. Licensed material shall be used by, or under the supervision of, individuals designated in writing by the Radiation Safety Committee, Joseph M. Santarsiero, Chairman.
- B. The Radiation Safety Officer for this license is Joseph M. Santarsiero.
12. Licensed material shall not be used in or on human beings.
13. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
14. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
29-01022-06Docket or Reference Number
030-05248

Amendment No. 47

15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the appropriate U. S. Nuclear Regulatory Commission, Regional Office referenced in Appendix D of 10 CFR Part 20. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
29-01022-06Docket or Reference Number
030-05248

Amendment No. 47

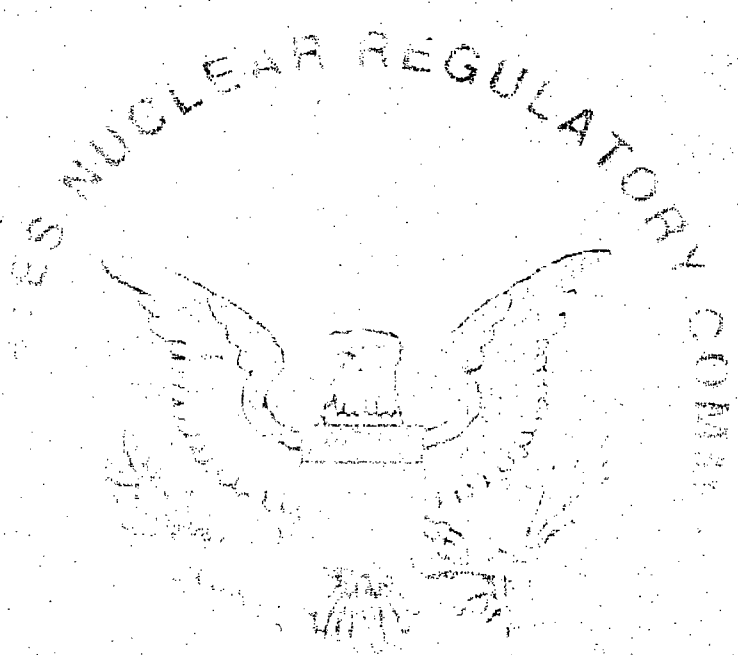
- G. The licensee is authorized to collect leak test samples for analysis by the licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
17. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
18. This license does not authorize commercial distribution of licensed material.
19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Letter dated February 15, 1995
 - B. Letter dated March 15, 1995
 - C. Letter dated May 19, 1995
 - D. Letter dated August 15, 1995
 - E. Letter dated March 10, 1997
 - F. Letter dated April 11, 1997
 - G. Letter dated May 12, 1997
 - H. Letter dated July 30, 1997
 - I. Letter dated August 27, 1997, with attachment
 - J. Letter dated December 2, 1997
 - K. Letter dated July 30, 1998
 - L. Letter dated May 13, 1998, with attached survey report
 - M. Letter dated November 18, 1998
 - N. Facsimile dated February 26, 1999

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
29-01022-06

Docket or Reference Number
030-05248

Amendment No. 47



For the U.S. Nuclear Regulatory Commission

Date February 26, 1999

By

Original signed by Steven Courtemanche

Steven Courtemanche
Nuclear Materials Safety Branch 1
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

81066482

March 3, 1999

Docket No. 030-05248
Control No. 126533

License No. 29-01022-06

Commander
Department of the Army
U.S. Army Materiel Command
ATTN: AMCSF-P
5001 Eisenhower Avenue
Alexandria, VA 22333-0001

Dear Commander:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original signed by Pamela J. Henderson

Steven Courtemanche
Health Physicist
Nuclear Materials Safety Branch 1
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 47

cc:

Joseph M. Santarsiero, Acting Director, Safety Risk Management/RSO

ML10

Commander
U.S. Army Materiel Command

2

DOCUMENT NAME: B:\DNMS Documents\Lic Cover Letter\L29-01022-06.wpd 81558861

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encd "E" = Copy w/ attach/encd "N" = No copy

OFFICE	DNMS/RI <i>SC</i>	N	DNMS/RI				
NAME	SCourtemanche						
DATE	03/03/99	03/ /99	03/ /99	03/ /99	03/ /99		

OFFICIAL RECORD COPY



DEPARTMENT OF THE ARMY

HEADQUARTERS, US ARMY COMMUNICATIONS-ELECTRONICS COMMAND

AND FORT MONMOUTH

FORT MONMOUTH, NEW JERSEY 07703-5000

REPLY TO
ATTENTION OF

February 26, 1999

MS 16
K-4

Directorate of Safety
Risk Management

U.S. Nuclear Regulatory Commission
Region I
Attention: Mr. Steven W. Courtemanche
475 Allendale Road
King of Prussia, Pennsylvania 19406-1415

Dear Mr. Courtemanche:

This refers to U.S. Nuclear Regulatory Commission (NRC) License Number 29-01022-06, Docket Number 030-05248, our February 11, 1999 letters, and to the February 26, 1999 telephone conversation between your Mr. Steven Courtemanche and Messrs. Craig Goldberg and Barry J. Silber.

We are modifying our February 11, 1999 requests for the storage of potential radioactive waste to:

a. The temporary storage of Low Specific Activity radioactive waste, i.e., construction debris, accumulated as a result of remediation efforts in support of Base Realignment and Closure (BRAC) activities of the Evans Area, will be held in a trailer designated for this purpose. This is necessary since Evans Area, currently designated and used for the storage of potential radioactive waste is insufficient to support BRAC efforts. The trailer will be locked, secured, and located within the confines of Zone 4A fenced compound. Ex2

b. Ex2

We hereby withdraw our request to the storage of potential radioactive waste generated under this license in any location(s) approved by the Fort Monmouth Radiation Control Committee.

OFFICIAL RECORD COPY

ML 10

126533

MAR - 4 1999

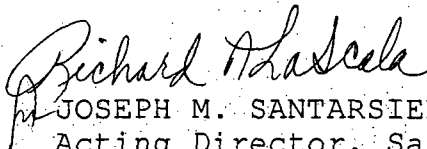
This storage will be required until such time as arrangements can be made with the Department of Defense Executive Agent for Low Level Radioactive Waste for the removal of the waste and shipment to either a licensed consolidation facility or directly to an authorized burial site.

We do not anticipate utilizing any alternative radioactive waste disposal methodology such as the establishment of on-site storage facilities for either decay-in-storage or other significant radioactive waste treatment procedures.

Your expeditious processing of this amendment request is appreciated.

If we can provide you with anything further in this matter our point of contact is Mr. Barry J. Silber, or the undersigned, on Facsimile (732) 532-6403 or (732) 542-7161; Voice on (732) 427-4427/3112.

Sincerely,


JOSEPH M. SANTARSIERO
Acting Director, Safety
Risk Management

Copy Furnished:

Commander, U.S. Army Materiel Command, ATTN: AMCSF-P, 5001
Eisenhower Avenue, Alexandria, Virginia 22333-0001

TELEPHONE CONVERSATION RECORD	Date: 02/25/99	Time: 14:00
Mail Control No.: 126533	License No: 29-01022-06	Docket No: 030-05248
Person Called: Barry Siglber, Health Physicist and Craig Goldberg, Acting Director	Licensee: Department of the Army	Telephone No.: (732) 544-3112
Person Calling: Steven Courtemanche/(610) 337-5075		
Subject: Additional Information.		
<p>Summary: I spoke with Mr. Silber and Mr. Goldberg about their amendment request. They stated that they needed the action as quickly as possible because the room where waste was currently being held was full and they needed additional capacity immediately. I stated that in order to process the amendment immediately, they would have to drop the request for global authorization for waste storage areas. The NRC would have to review their procedures and minimum criteria for establishing a waste storage area otherwise. They agreed to fax a letter rescinding that part of their request and stated that the April 11, 1997 letter to the NRC contained the information we would require for a waste area in order to gain our approval.</p>		
Action Required/Taken: File with licensing letter		
Signature: <i>Steven Courtemanche</i>	Date: 02/25/99	



DEPARTMENT OF THE ARMY
 HEADQUARTERS, US ARMY COMMUNICATIONS-ELECTRONICS COMMAND
 AND FORT MONMOUTH
 FORT MONMOUTH, NEW JERSEY 07703-5000

REPLY TO
 ATTENTION OF

February 11, 1999

Directorate of Safety
 Risk Management

U.S. Nuclear Regulatory Commission
 Region I
 475 Allendale Road
 King of Prussia, Pennsylvania 19406-1415

Attention: Licensing Assistance Section

This refers to U.S. Nuclear Regulatory Commission (NRC) License Number 29-01022-06, Docket Number 030-05248.

We are requesting that you amend the above NRC license to permit the storage of potential radioactive waste generated under this license in any location(s) approved by the Fort Monmouth Radiation Control Committee (FMRCC). We are planning to use Room 109, Building 2540, Charles Wood Area, for this purpose. If warranted, other locations will be established as approved by the FMRCC. This storage will be required until such time as arrangements can be made with the Department of Defense Executive Agent for Low Level Radioactive Waste for the removal of the waste and shipment to either a licensed consolidation facility or directly to an authorized burial site.

This request is being made to supplement the use of the Evans Area, currently designated and used for this purpose for storage of potential radioactive waste as a result of the decommissioning and Base Realignment and Closure of the Evans Area, including [redacted] Evans

We do not anticipate utilizing any alternative radioactive waste disposal methodology such as the establishment of on-site storage facilities for either decay-in-storage or other significant radioactive waste treatment procedures.

Your expeditious processing of this amendment request is appreciated.

If we can provide you with anything further in this matter, our point of contact is Mr. Barry J. Silber, on (732) 427-4427/3112, ext. 6440 or the undersigned, on ext. 6427; facsimile (732) 532-6403 or (732) 542-7161.

Sincerely,

Joseph M. Santarsiero
 JOSEPH M. SANTARSIERO
 Acting Director, Safety
 Risk Management

Copy Furnished:

Commander, U.S. Army Materiel Command, ATTN: WAMCSF-P, 5001 Eisenhower Avenue, Alexandria, Virginia 22333-0001

126533

FEB 16 1999

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

2/11/99 (FAX), and to inform you that the initial processing which includes an administrative review has been performed.

- AMEND. 29-01022-06* 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 1 2 6 5 3 3
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (R)
(6-88)

Sincerely,
Licensing Assistance Team Leader



DEPARTMENT OF THE ARMY
HEADQUARTERS, US ARMY COMMUNICATIONS-ELECTRONICS COMMAND
AND FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY 07703-5000

REPLY TO
ATTENTION OF

February 11, 1999

Directorate of Safety
Risk Management

U.S. Nuclear Regulatory Commission
Region I, DNMS
Attention: Mr. Steven W. Shaffer
475 Allendale Road
King of Prussia, Pennsylvania 19406-1415

Dear Mr. Shaffer:

This refers to U.S. Nuclear Regulatory Commission (NRC) License Number 29-01022-06, Docket Number 030-05248, and to the February 9, 1999 telephone conversation between your Mr. Steven Shaffer and Messrs. Steven A. Horne and Craig Miller, IceSolv Incorporated, contracted to the Directorate of Safety Risk Management.

We are requesting that you amend the above NRC license to permit the storage of potential radioactive waste generated under this license in any location(s) approved by the Fort Monmouth Radiation Control Committee.

We are planning to utilize a trailer for the temporary storage of Low Specific Activity Radioactive Waste, i.e., construction debris, accumulated as a result of remediation efforts in support of Base Realignment and Closure (BRAC) activities of the Evans Area. This is necessary since **7** currently designated and used for the storage of potential radioactive waste is insufficient to support BRAC efforts. The trailer will be locked, secured, and located within the confines of the Zone 4A fenced compound. Ex2

This storage will be required until such time as arrangements can be made with the Department of Defense Executive Agent for Low Level Radioactive Waste for the removal of the waste and shipment to either a licensed consolidation facility or directly to an authorized burial site.

We do not anticipate utilizing any alternative radioactive waste disposal methodology such as the establishment of on-site

OFFICIAL RECORD COPY



ML 10

FAX RECD

126533
FEB 11 1999

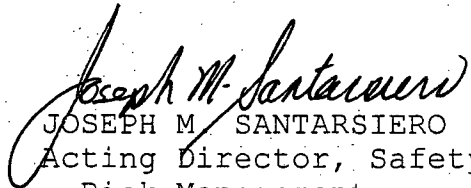
FEB 16 1999

storage facilities for either decay-in-storage or other significant radioactive waste treatment procedures.

Your expeditious processing of this amendment request is appreciated.

Our points of contact are Mr. Barry J. Silber, or the undersigned. Mr. Silber may be reached on (732) 427-3112/4227, ext. 6440; or facsimile (732) 532-6403 or (732) 542-7161; or the undersigned, on ext. 6427.

Sincerely,


JOSEPH M. SANTARSIERO
Acting Director, Safety
Risk Management

Copy Furnished:

Commander, U.S. Army Materiel Command, ATTN: AMCSF-P, 5001
Eisenhower Avenue, Alexandria, Virginia 22333-0001