

2000-0062

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### RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) / PRIVACY ACT (PA) REQUEST

RESPONSE TYPE  FINAL  PARTIAL

REQUESTER

David W. Copeland

DATE

MAR 16 2000

#### PART I. -- INFORMATION RELEASED

- No additional agency records subject to the request have been located.
- Requested records are available through another public distribution program. See Comments section.
- APPENDICES  Agency records subject to the request that are identified in the listed appendices are already available for public inspection and copying at the NRC Public Document Room.
- APPENDICES  **A** Agency records subject to the request that are identified in the listed appendices are being made available for public inspection and copying at the NRC Public Document Room.
- Enclosed is information on how you may obtain access to and the charges for copying records located at the NRC Public Document Room, 2120 L Street, NW, Washington, DC.
- APPENDICES  **A** Agency records subject to the request are enclosed.
- Records subject to the request that contain information originated by or of interest to another Federal agency have been referred to that agency (see comments section) for a disclosure determination and direct response to you.
- We are continuing to process your request.
- See Comments.

#### PART I.A -- FEES

AMOUNT \*  
\$ 48.20

- You will be billed by NRC for the amount listed.  None. Minimum fee threshold not met.
- You will receive a refund for the amount listed.  Fees waived.

\* See comments for details

#### PART I.B -- INFORMATION NOT LOCATED OR WITHHELD FROM DISCLOSURE

- No agency records subject to the request have been located.
- Certain information in the requested records is being withheld from disclosure pursuant to the exemptions described in and for the reasons stated in Part II.
- This determination may be appealed within 30 days by writing to the FOIA/PA Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Clearly state on the envelope and in the letter that it is a "FOIA/PA Appeal."

#### PART I.C COMMENTS (Use attached Comments continuation page if required)

The actual processing fees for your request are:

Duplication - 341 pgs. total, minus 100 pgs. @ no charge, 241 pgs. @ \$0.20 per pg. = \$48.20

Since you agreed to pay fees as high as \$75.00 in your letter, we are enclosing the records subject to your request. You will be billed for the above amount separately.

SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER

*for*  
Carol Ann Reed

**APPENDIX A**  
**RECORDS BEING RELEASED IN THEIR ENTIRETY**

| <b><u>NO.</u></b> | <b><u>DATE</u></b> | <b><u>DESCRIPTION/(PAGE COUNT)</u></b>   |
|-------------------|--------------------|--|
| 1.                | 12/30/57           | Office Memorandum from James R. Mason to L. R. Rogers (5 pages)  |
| 2.                | 01/03/58           | Application for Byproduct Material License (3 pages)   |
| 3.                | 01/17/58           | Telephone call to Eliot W. Denault, Jr. (1 page)   |
| 4.                | 01/17/58           | Ltr from Eliot W. Denault to James W. Hitch AEC (10 pages)   |
| 5.                | 01/20/58           | Federal Register Notice (1 page)   |
| 6.                | 01/23/58           | Ltr from Kathleen H. Shea, Attorney OGC to Mr. Bernard R. Kennedy, Director, The Federal Register (2 pages)              |
| 7.                | 01/24/58           | Application For Byproduct Material License (2 pages)   |
| 8.                | 01/31/58           | Office Memorandum from R. J. Frederick, Licensing Branch to E. E. Fowler, Chief Radiation & Inter-Agency Branch (1 page) |
| 9.                | 02/04/58           | Ltr from Eliot W. Denault to James W. Hitch (3 pages)  |
| 10.               | 2/27/58            | Ltr from Eliot W. Denault to James W. Hitch (2 pages)  |
| 11.               | 03/26/58           | Ltr from Eliot W. Denault to James W. Hitch (1 pages)  |
| 12.               | 03/28/58           | Application for Byproduct Material License (2 pages)   |
| 13.               | 04/01/58           | Ltr from Eliot W. Denault to James W. Hitch (4 pages)  |
| 14.               | 04/09/58           | Telephone Call to: Mr. Eliot W. Denault (1 page)   |
| 15.               | 04/14/58           | Office Memorandum from James W. Hitch to Isotopes Files (3 pages)  |
| 16.               | 04/21/58           | Office Memorandum from J. R. Mason to L. R. Rogers (13 pages)  |

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| <b><u>NO.</u></b> | <b><u>DATE</u></b> | <b><u>DESCRIPTION/(PAGE COUNT)</u></b>                                   |
|-------------------|--------------------|--|
| 17.               | 07/29/58           | Ltr from Norman C. Rasmussen to James W. Hitch (2 pages)                 |
| 18.               | 06/11/58           | Office Memorandum from James R. Mason to Isotopes Branch files (2 pages) |
| 19.               | 06/20/58           | Ltr from E. Denault to James Mason (1 page)                              |
| 20.               | 07/29/58           | Telephone Call from: Eliot Denault (1 page)                              |
| 21.               | 08/05/58           | Telephone Call to: Eliot Denault, Sr (1 page)                            |
| 22.               | 08/20/58           | Ltr from Eber R. Price to Honorable Foster Furcolo (13 pages)            |
| 23.               | 08/25/58           | Ltr from Kathleen H. Shea to Bernard R. Kennedy (1 page)                 |
| 24.               | 09/30/58           | Telephone Call from: E. W. Denault (1 page)                              |
| 25.               | 10/09/58           | Ltr from Attorney, OGC to Bernard R. Kennedy (1 page)                    |
| 26.               | 10/09/58           | Ltr from H. L. Price to Honorable Foster Furcolo (1 page)                |
| 27.               | 10/09/58           | Telephone Call From: E. W. Denault (1 page)                              |
| 28.               | 10/09/58           | Ltr from H. L. Price to New England Tank Cleaning Company (1 page)       |
| 29.               | 10/29/58           | Ltr from Eliot W. Denault to J. R. Mason (1 page)                        |
| 30.               | 11/01/58           | Ltr from Eliot W. Denault to J. R. Mason (1 page)                        |
| 31.               | 12/03/58           | Ltr from Eliot W. Denault to J. R. Mason (1 page)                        |
| 32.               | 12/09/58           | Office Memorandum from James R. Mason To: File (1 page)                  |
| 33.               | 12/10/58           | Ltr from Eliot W. Denault to J. R. Mason (1 page)                        |

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| <b><u>NO.</u></b> | <b><u>DATE</u></b> | <b><u>DESCRIPTION/(PAGE COUNT)</u></b>   |
|-------------------|--------------------|--|
| 34.               | 12/11/58           | Routine Note from James R. Mason (1 page)  |
| 35.               | 12/11/58           | Incoming Telegram (1 page)   |
| 36.               | 12/11/58           | Federal Register Notice (1 page)   |
| 37.               | 12/11/58           | Ltr from James R. Mason to Honorable Foster Furcolo (5 pages)                    |
| 38.               | 12/11/58           | Ltr from James R. Mason to New England Tank Cleaning Co.<br>(1 page)             |
| 39.               | 12/11/58           | Notice of Issuance of an Amendment to Byproduct Material License<br>(3 pages)    |
| 40.               | 12/11/58           | Byproduct Material License (1 page)  |
| 41.               | 12/11/58           | Ltr from James R. Mason to Honorable Foster Furcolo (1 page)                     |
| 42.               | 12/12/58           | Ltr from Attorney, OGC to David C. Eberhart (1 page)                             |
| 43.               | 12/12/58           | Ltr from James R. Mason to New England Tank Cleaning Company<br>(1 page)         |
| 44.               | 12/15/58           | Ltr from Eliot W. Denault to James R. Mason (1 page)                             |
| 45.               | 12/16/58           | Telephone Call To: E. W. Denault (1 page)  |
| 46.               | 12/16/58           | Routine Note to R. L. Hervin, Isotopes Br. (1 page)                              |
| 47.               | 12/16/58           | Ltr from Eliot W. Denault to J. R. Mason (1 page)                                |
| 48.               | 12/18/58           | Notice of Application For An Amendment to Byproduct Material<br>License (1 page) |
| 49.               | 12/18/58           | Ltr from James R. Mason to Honorable Foster Furcolo (1 page)                     |
| 50.               | 12/18/58           | Federal Register Notice (1 page)   |

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|-------------------|--------------------|--|
| 51.               | 12/18/58           | Ltr from James R. Mason to New England Tank Cleaning Company (1 page)    |
| 52.               | 12/19/58           | Ltr from Eliot W. Denault to J. R. Mason (1 page)                        |
| 53.               | 12/31/58           | Transmittal of License Compliance Inspection Report - 10CFR30 (20 pages) |
| 54.               | 12/31/58           | Ltr from James R. Mason to New England Tank Cleaning Company (1 page)    |
| 55.               | 12/31/58           | Ltr from James R. Mason to Honorable Foster Furcolo (1 page)             |
| 56.               | 12/31/58           | Federal Register Notice (1 page)   |
| 57.               | 01/02/59           | Ltr from Attorney, OGC to David C. Eberhart (1 page)                     |
| 58.               | 01/13/59           | Ltr from James R. Mason to Eliot W. Denault (1 page)                     |
| 59.               | 03/19/59           | Ltr from Harold L. Price to Elliott W. Denault (2 pages)                 |
| 60.               | 03/16/59           | Office Memorandum from G. W. Morgan to Files (2 pages)                   |
| 61.               | 04/23/59           | Byproduct, Source and Special Nuclear Material License (5 pages)         |
| 62.               | 05/29/59           | Ltr from James R. Mason to Eliot W. Denault, Jr (2 pages)                |
| 63.               | 01/07/60           | Ltr from Eliot W. Denault to J. R. Mason (1 page)                        |
| 64.               | 01/22/60           | Ltr from James R. Mason to Eliot W. Denault (4 pages)                    |
| 65.               | 07/13/60           | Ltr from Eliot W. Denault to H. L. Price (1 page)                        |
| 66.               | 07/19/60           | Ltr from James R. Mason to Eliot W. Denault (1 page)                     |
| 67.               | 07/21/60           | Ltr from Eliot W. Denault to James R. Mason (1 page)                     |

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|-------------------|--------------------|---|
| 68.               | 08/04/60           | Ltr from C. F. Quinn to Eliot W. Denault (2 pages)  |
| 69.               | 08/15/60           | Ltr from R. L. Kirk to E. W. Denault (2 pages)  |
| 70.               | 08/19/60           | Ltr from Eliot W. Denault to R. L. Kirk, AEC (6 pages)  |
| 71.               | 10/05/60           | Ltr from James R. Mason to Elliot Denault, Jr. (9 pages)  |
| 72.               | 06/21/61           | Ltr from Eliot W. Denault to James R. Mason (7 pages)   |
| 73.               | 08/04/61           | Memorandum from Robert W. Kirkman to Robert Lowenstein (15 pages)                                     |
| 74.               | 08/31/61           | Ltr from R. Lowenstein to E. W. Denault, Jr. (14 pages)   |
| 75.               | 01/28/63           | Application For Byproduct Material License (14 pages)   |
| 76.               | 04/16/63           | Ltr from E. W. Denault to Richard E. Cunningham (15 pages)  |
| 77.               | 07/11/63           | Notice of Issuance Of An Amendment To Byproduct Source And Special Nuclear Material License (8 pages) |
| 78.               | 07/11/63           | Ltr from Eber R. Price to Eliot W. Denault, Jr. (14 pages)  |
| 79.               | 07/11/63           | Memorandum from R. Lowenstein to H. L. Price (1 page)   |
| 80.               | 07/11/63           | Memorandum from R. Lowenstein to R. E. Cunningham (1 page)  |
| 81.               | 07/11/63           | Byproduct, Source and Special Nuclear Material License (8 pages)                                      |
| 82.               | 07/17/63           | Ltr from John T. Sweeney to Alen R. Puiss (2 pages)   |
| 83.               | 07/18/63           | Federal Register Notices (3 pages)  |
| 84.               | 07/19/63           | Memorandum from L. P. R. Huard to Files (3 pages)   |

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| <b><u>NO.</u></b> | <b><u>DATE</u></b> | <b><u>DESCRIPTION/(PAGE COUNT)</u></b>   |
|-------------------|--------------------|--|
| 85.               | 07/24/63           | Ltr from Eber R. Price to Eliot W. Denault, Jr. (10 pages)   |
| 86.               | 08/13/63           | Ltr from Eber R. Price to Eliot W. Denault, Jr. (11 pages)   |
| 87.               | 12/21/58           | Notice Of Issuance Of An Amendment To Byproduct Material License (2 pages)                             |
| 88.               | 12/58              | Notice of Issuance of An Amendment to Byproduct Material License (2 pages)                             |
| 89.               | 03/16/61           | Material License (2 pages)   |
| 90.               | No Date            | Byproduct, Source and Special Nuclear Material License (2 pages)                                       |
| 91.               | No date            | Notice of Issuance Of An Amendment To Byproduct, Source And Special Nuclear Material License (2 pages) |
| 92.               | No date            | Byproduct Material License (6 pages)   |
| 93.               | 12/18/58           | Notice of Application For An Amendment To Byproduct Material License (1 page)                          |
| 94.               | 10/25/64           | Back-Up Notes For AEC-592 (6 pages)  |
| 95.               | 11/13/64           | Ltr from Robert W. Kirkman to E. Denault, Jr. (3 pages)  |
| 96.               | No date            | Byproduct, Source and Special Nuclear Material License (3 pages)                                       |
| 97.               | 05/15/67           | TWX NR 918 (13 pages)  |

## Office Memorandum • UNITED STATES GOVERNMENT

DOCKET NO: 97-8  
*Suppl. am*

TO : L. R. Rogers, Division of Licensing and Regulation, Washington, D. C.      DATE: December 30, 1957

FROM : *J. B. Mason*  
James B. Mason, Chief, Isotopes Extension, Division of Licensing and Regulation, Oak Ridge, Tennessee

SUBJECT: TRANSMITTAL OF INFORMATION RELATED TO NEW ENGLAND TANK CLEANING COMPANY

SYMBOL: IEB:RLH

Pursuant to Section A of August 23, 1957, Memo "Docket System for Radioactive Waste Disposal Licenses", we have enclosed an application and supporting information submitted by the New England Tank Cleaning Company, Cambridge, Massachusetts. Further action by the Isotopes Extension is pending receipt of additional information from the applicant regarding their proposed waste disposal program.

Encls:  
Form AEC-313 and 3 page supplement



ITEM # 1

All (B)



EX-100 27-8  
Suppl. cy

Form AEC-212 (7-54) **ATOMIC ENERGY COMMISSION APPLICATION FOR BYPRODUCT MATERIAL LICENSE** Form approved, Budget Bureau No. 25-2007 A.

**INSTRUCTIONS:** Complete Items 1 through 10 if this is a new application. If renewal is requested, complete only Items 1 through 11 provided that with respect to the other items there has been no change in the information previously submitted. Mail two copies to: U. S. Atomic Energy Commission, P. O. Box E, Oak Ridge, Tennessee, Attention: Isotopes Extension, Division of Civilian Application. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. General requirements for issuance of an AEC Byproduct Material License are contained in Title 10, Code of Federal Regulations, Part 30.

1. (a) NAME AND SHIPPING ADDRESS OF APPLICANT (Institution, firm, hospital, person, etc.)  
**New England Tank Cleaning Co.  
135 First St., Cambridge, Mass.**

(b) ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (If different from shipping address)  
**Lovell's Island, Boston, Mass.**

2. DEPARTMENT TO USE BYPRODUCT MATERIAL  
**Radioactive Waste Disposal Branch**

3. INDIVIDUAL USER (Name and title of individual(s) who will use or directly supervise use of byproduct material)  
**Eliot W. Denault Jr.**

4. RADIOLOGICAL SAFETY OFFICER (Name of person qualified in radiological safety, if other than individual user)  
**Dr. Norman C. Rasmussen - see attached information.**

5. PREVIOUS LICENSE OR AUTHORIZATION NUMBER (If this is an application for renewal of a license for byproduct material obtained under a prior license or authorization for radiological procurement)  
**None**

**BYPRODUCT MATERIAL OR IRRADIATION SERVICE DESIRED**

|   |  |   |
|---|--|---|
| 6. BYPRODUCT MATERIAL (Element and mass number)<br><b>All - for purpose of disposal</b> | 7. CHEMICAL AND/OR PHYSICAL FORM (Or catalog number)<br><b>All Forms</b> | 8. MAXIMUM AMOUNT OF RADIOACTIVITY IN MILLICURIES THAT YOU WILL POSSESS AT ANY ONE TIME<br><b>10<sup>6</sup> mc</b> |
|---|--|---|

9. IF IRRADIATION SERVICE IS DESIRED, STATE PERTINENT DETAILS SUCH AS: CHEMICAL COMPOSITION AND WEIGHT IN GRAMS OF TARGET MATERIAL, RADIOACTIVITY, IRRADIATION TIME IN DAYS, AND NEUTRON FLUX

**STATEMENT OF USE**

10. (a) DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If material is for "human use" complete Supplement A in lieu of this item. If material is to be used in or manufactured as a "sealed source" complete Supplement B in addition to this item.)  
**Waste Disposal - see attached information.**

(b) DESCRIBE PROCEDURES WHICH WILL BE OBSERVED TO MINIMIZE HAZARD FROM HANDLING, STORAGE, AND DISPOSAL OF THE BYPRODUCT MATERIAL  
**See attached information.**

**CERTIFIED A TRUE COPY**  
**BY R. J. Morris**

**CERTIFICATE**

11. The applicant and any official executing this certificate on behalf of the applicant named in Item 1, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and do solemnly swear (or affirm) that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

State of Massachusetts Applicant named in Item 1 New England Tank Cleaning Co.  
County of Suffolk  
Subscribed and sworn to before me this 19<sup>th</sup> day of December 1957  
By Eliot W. Denault Jr. Title of Certifying Official  
Thomas H. Lewis NOTARY PUBLIC My Commission Expires Dec. 19, 1958  
Thomas H. Lewis Notary Public

Feb. 24 1958  
**WARNING**  
18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749; 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.

Supplement to Form 313 Application of New England Tank Cleaning Co.  
for Byproduct Material License.

### General

The New England Tank Cleaning Co. has been in the business of cleaning and monitoring tanks containing volatile gases and other hazardous materials for the past twelve years. During the past year we have been working on high octane gas tanks for the U. S. Air Force in Thule, Sondenstrom, Pepperrell, Goose, Harmon, Kindley in Bermuda, and the Azores. At these bases we have been doing modification work on tank as well as cleaning and coating the insides with vinyl plastic. Since starting in business we have had no serious accidents.

We have on hand several tons of special equipment, protective clothing, gas masks etc. Our staff includes engineers who are accustomed to successfully completing jobs in which extreme caution is required to protect personnel and property.

We now intend to expand our operations to include the radioactive waste disposal service. With the assistance of capable consultants, whom we have retained, we feel that we can do a thorough and responsible job in this field.

### Consultants

Dr. Norman C. Rasmussen and Mr. Joel B. Fulkley who have been with the Radioactivity Center and Cyclotron group at M.I.T. for 6 years and 11 years respectively are acting as consultants on this project. We will also have available other specialists from M.I.T. in chemistry and other fields, should special problems arise.

### Proposed Disposal Procedures

Our company was recently the high bidder on Lovell's Island, approximately 61 acres, located in Boston harbor. This island was the site of Fort Standish a former military installation. The island is honeycombed with underground ammunition storage vaults which are protected by varying thicknesses of concrete (minimum of 4 ft) plus varying thicknesses of earth. All vaults are protected with inner and outer steel doors. There are approximately 300,000 cu. ft. of

R F Herwin

storage area in these vaults. The vaults are dry as would be expected of an ammo storage area. The wastes would be stored in this area for an indefinite period. At such time as was necessary the accumulated material would be disposed of in the ocean. The disposal would be carried out following the procedures recommended by NBS Handbook 58.

### Training

Three members of this company have attended training sessions conducted by Norman C. Rasmussen and Joel B. Eukley for about 8 weeks. These sessions were of 2 hours duration and met on the average of twice a week. The subjects covered included: types of radioactive transformation, characteristics of the emitted radiations, the potential health hazards of radiations, the concept of half life, the inverse square law, the standards and units used in measuring radiations and radiation dose, measuring instruments and techniques, Federal and Mass. State Regulations governing the control of radioactive materials, tolerance values for radiation exposures, and general procedures for the safe handling of radioactive materials.

### Radiological Safety Officer

Norman C. Rasmussen obtained a Ph.D in nuclear physics at M.I.T. in January 1956. He has been a member of the research staff of the Radioactivity Center at M.I.T. since 1952. In the course of this time he has handled a great variety of sources of radioactivity varying in amount from fractions of  $\mu\text{c}$  to a few hundred  $\text{mc}$  RaBe neutron source. In addition to this he has had experience in the radiation problems encountered in repairing the M.I.T. cyclotron where the activity dealt with is in the curie range.

*R. J. Morris*

Film Badges, Dosimeters and Monitoring Devices

Film badge service by R. S. Landsauer, Jr. and Co.  
24 Plaza, Park Forest, Illinois.

1 Technical Associates Juno  
α, β, γ Survey meter  
50, 500, 5000mr/hr.

1 Universal Atomics β - γ  
Mod V-700 Survey Meter  
.5, 5, 50mr/hr.

1 Baird - Atomic Mod 414 Cutie Pie  
0-3000mr/hr.

6 Landsverk Dosimeters  
0-200mr

1 Landsverk Dosimeter Charger  
All instruments will be calibrated against standard radium sources.

*R. S. Landsauer*

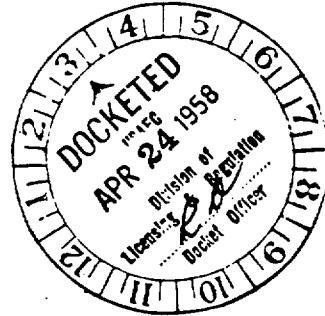
DOCKET

27-8

July 9

IEB:RLH (8279)

Oak Ridge, Tennessee  
January 3, 1958



CERTIFIED TRUE COPY  
BY R. J. Newby

Mr. Eliot L. Denault, Jr.  
New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Subject: APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Dear Mr. Denault:

This is in response to your recent application for a Byproduct Material License covering sea disposal of radioisotopes.

In order to continue our review of your application, we will need information on the following items:

1. A copy of your radiological protection procedures delineating detailed information to personnel on the proper procedures to be taken regarding transfer, storage, emergencies, security of material, transportation, surveys to be made, and similar items to insure proper radiation safety practices.
2. A detailed description or sketch of the facilities where the waste is processed and packaged should be submitted. Annotated drawings or sketches would be helpful. This should include a description of remote handling equipment, shielding, packaging equipment, precautions posted in the area and provisions for decontamination of facilities and equipment should be emphasized. Also include a more detailed description of the storage area and details on the restriction of areas from unauthorized entry.
3. Specific details on the container construction such as an annotated drawing or sketch of the final package. This should show the material of construction, means of reinforcement (if any) and similar items to insure that the final package is such that there will not be any sufficient loss of radiation, damage or fracture, and collapse due to pressure at disposal depth. The container should conform with the requirements of Section 1.2D, page 3, and Section 8, pages 25, 26 and 27 of the National Bureau of Standards Handbook 58.

|           |                    |  |  |  |  |  |
|-----------|--------------------|--|--|--|--|--|
| OFFICE ▶  |                    |  |  |  |  |  |
| SURNAME ▶ | <u>R. J. Newby</u> |  |  |  |  |  |
| DATE ▶    |                    |  |  |  |  |  |

ITEM # 2

1/2 6

January 3, 1958

4. A description or facsimile of the label which will be impressed in or permanently affixed to each waste container. This identification is described in Section 8.5, page 27 of Handbook 58.
5. The procedure which will be followed for packaging waste, including the degree of packaging performed by the radioisotope user, and the additional packaging performed by the New England Tank Cleaning Company. A copy of the written instructions furnished customers should be included.
6. The locations at which the disposals will be made. This location should be expressed in degrees and minutes of latitude and longitude. Please verify that water depths at this location exceeds 1,000 fathoms. Areas commonly used for fishing should be avoided. Please confirm that the disposal area is an approved U. S. Navy Dumping Area for hazardous materials.
7. A resume of the record system which will be maintained and provided the waste disposal service. In addition to this records covered in Section 1.23, page 4 of Handbook 58, radiation survey results, personnel monitoring results, records for customers and a true copy of the ship's log for each disposal should be maintained.
8. A description of the transportation equipment and facilities (land and sea) which will be employed. This description should contain a discussion of the type of vehicles to be used, a statement of ownership for the vehicle, the type of warning sign to be placed on the vehicle, shielding which may be used, precautions taken to prevent contamination of the vehicle, such as securing the container while in route, and the means of determining the absence of contamination after the use of the vehicle. A copy of the emergency procedures to be followed in the event of an accident involving a vehicle transporting radioactive materials should be submitted.
9. Confirmation that transportation of radioactive material will comply with existing regulations of the Interstate Commerce Commission, U. S. Coast Guard and/or other cognizant agencies.

The information will facilitate our review of this application as well as any future applications you may submit.

CERTIFIED TRUE COPY

Transportation of radioactive materials by water is subject to regulations prescribed by the Commandant of the U. S. Coast Guard. Regulations applicable to radioactive materials appear in Title 46, Part 146 of the Code of Federal Regulations, as amended. These are published in the Federal Register, July 17, 1952, and December 31, 1952. These regulations also are published by the Bureau of Explosives, H. A. Campbell, Agent, 30 Vesey Street, New York 7, New York, as "Water Carrier Tariff No. 6".

|           |          |  |  |  |  |
|-----------|----------|--|--|--|--|
| OFFICE ▶  |          |  |  |  |  |
| SURNAME ▶ | R. J. H. |  |  |  |  |
| DATE ▶    |          |  |  |  |  |

Mr. Eliot W. Denault

-3-

January 3, 1958

The transportation of radioactive materials in interstate commerce is subject to the regulations of the Interstate Commerce Commission. The Interstate Commerce Commission does not issue separately its regulations applying specifically to shipments of radioactive materials. The complete regulations covering packaging, labeling, and transporting of dangerous articles are published as Title 49, Parts 71 to 78, Code of Federal Regulations.

We wish to bring to your attention that the state of Massachusetts will have an interest in the transportation and disposal of radioactive materials within its boundaries. Hence, it may be necessary for you to discuss your proposal with the State Health Department.

The present licensing program as administered by the Isotopes Extension, Division of Licensing and Regulation includes routine visits to companies for the purpose of reviewing their proposed radioisotopes program. Our office will have a representative in your area the latter part of January and tentatively plans a visit with you to review your proposed radioisotopes program. We will contact you at a later date to establish a definite time for our visit.

If you have any questions concerning any aspect of the Atomic Energy Commission's licensing requirements, please do not hesitate to contact us.

Very truly yours,

James W. Fitch, Assistant Chief  
Byproduct Licensing  
Isotopes Extension  
Division of Licensing and Regulation

- Enclosures:
1. Handbook 58
  2. 10-CFR-20 and 30

CERTIFIED A TRUE COPY  
BY R. J. Fitch

|           |          |          |  |  |  |
|-----------|----------|----------|--|--|--|
| OFFICE ▶  | Isotopes | Isotopes |  |  |  |
| SURNAME ▶ | Hepburn  | Hepburn  |  |  |  |
| DATE ▶    | 1/3/58   |          |  |  |  |

DOCKET NO.

27-8

*Supp. File Only*

(RLH) 1/17/58

18279

Telephone call to Eliot W. Denault, Jr., New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts.

Call was made to Mr. Denault on the tie-line to inform him that we will not be able to make a pre-licensing visit the latter part of January due to our forthcoming move to Washington, D. C. on the 11th of February. Mr. Denault stated that he has had two men working full time on their application and that they should have the information compiled as requested in our letter of January 3, 1958. He stated that they will get this information in the mail today as they intend to start their waste disposal operation the first part of February. Mr. Denault was informed about our procedures of publishing in the Federal Register our intent to issue a license covering sea disposal and that there would be at least a 15 day waiting period after publishing in the register. Mr. Denault was quite concerned as he wants to process the application as soon as possible as M.I.T. is one of their potential customers and they already have a load for disposal for M.I.T. upon approval of their application. Dr. Denault stated that he will forward this information to us today and that he would appreciate our expeditious handling of his application. Dr. Denault was informed that upon receipt of this information, we will immediately review same and that we would call him if we need additional information regarding his application

*BY WHITE AIR MAIL*

CERTIFIED A TRUE COPY

BY *R. J. Nelson*

ITEM # 3

*A/3*



Docu... 27-8

8502  
File 4. BJB

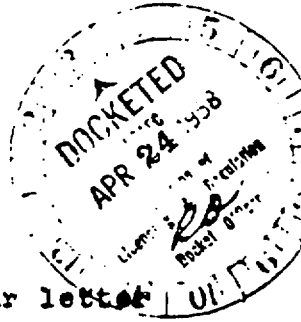
# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING - VINYL PLASTIC LINING  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

January 17, 1958

James W. Hitch, Assistant Chief  
Byproduct Licensing  
Isotope Extension  
Division of Licensing and Regulation  
United States Atomic Energy Commission  
Oak Ridge, Tennessee



Dear Mr. Hitch:

Enclosed you will find answers to questions from your letter of January 3 ( IEB; RLH 8279 ).

1. Any person to be hired for work with radioactive materials will be interviewed by the Radiological Safety Officer. He will receive informal instruction on the general problem of handling radioactive materials and shall be informed of the potential hazards of radioactive substances. He will be informed of the company's safety program and the hazard control procedures required in his work. He will be given a set of written instructions (enclosures 1 & 2) and a copy of Handbook 42. No person under 18 years of age will be considered for this work. All prospective employees will have a physical examination including a differential blood count prior to employment.

All areas in which radioactive substances are stored or processed shall be surveyed once a month or whenever contamination is suspected. These surveys shall include area survey, air sampling and wipe tests. The results of these surveys shall be recorded and the records kept permanently in the company office. All personnel will be issued film badges which will be monitored every two weeks. This service is to be provided by the R.S. Landauer Co. In addition the company will provide direct reading personnel dosimeters to be worn at all times when handling radioactivity. The company will provide outer garments and has available respirators for use when there is any airborne hazard.

CERTIFIED A TRUE COPY  
BY K. J. [Signature]

ITEM # 4

114 (10)

2. Lovell's Island , the proposed site of the storage and packaging, is located in outer Boston Harbor (see enclosure 3 ). Also enclosed is a sketch of the island (enclosure 4 ). Unfortunately detailed drawings of the underground facilities are not available. However , their locations are marked in red. These underground facilities consist of a number of vaults of various sizes originally used for the storage of ammunitions. These vaults are constructed of a minimum of four feet of concrete and are under varying thickness of earth up to eighteen feet. Access is limited to at most two entrances and these are protected by heavy steel doors. These doors can be secured to prevent access by unauthorized personnel. In a recent visit even vaults as much as eighteen feet underground were found to be completely dry. Many of the vaults are equipped with monorail systems which can be used for the remote handling of heavy containers. Enough vaults are available so that the amount of activity stored in any one vault can be controlled in order that safe radiation levels can be maintained.

The New England Tank Company is presently involved in the commercial cleaning business and has available all types of cleaning equipment. We are therefore prepared to handle even quite large scale decontamination jobs.

Lovell's Island is uninhabited and accessible from the mainland only by boat. The island will be posted with suitable warning signs and all vaults in which activity is stored will be locked and placarded in accordance with the Federal Register requirements.

3. It is planned to make disposal at sea in fifty-five gallon drums. The material to be disposed would be imbedded in concrete to insure a specific gravity of 1.2 for the package. The specific details for the imbedding process would of course depend on the amount and form of the materials to be disposed. Any of the five methods shown in plate #1 page 10 of document United States Sea Disposal Operations WASH 734 might be employed. It is also conceivable that the size and shape of some waste materials might require special packaging such as the concrete vault described on plate #4 of the above document. The New England Tank Cleaning Company is prepared to use any of the above types of packaging but final decision as to the specific type can only be made after we know the form and activity of the material to be disposed. Any package for disposal will meet the requirements of section 1.2D and section 8 of the National Bureau of Standards Handbook 58.

4. Metal Tag 2" x 3"

Radioactive Waste  
New England Tank Cleaning Co.  
Cambridge, Mass.

Date \_\_\_\_\_ Approx. activity in mc. \_\_\_\_\_  
Principal radioactive content \_\_\_\_\_  
Serial #- \_\_\_\_\_

5. The company will supply its customers with separate suitable containers for dry and liquid wastes. The types and amounts of materials that may be disposed in these containers are described in Instructions for Waste Disposal ( see enclosure 5 ). The containers for solid wastes will be fiberboard which can be tape-sealed for shipment. The containers for liquid wastes will be wide-mouthed two gallon jars, filled with dry clay as an absorbent material. Salt will be intimately mixed with the absorbent to lower the freezing point and prevent the possibility of rupture of the container due to freezing. All containers transported by the New England Tank Cleaning Company will be placed in steel drums for transfer from user's site to Lovell's Island and will meet I.C.C. shipping regulations. If other means of transportation are used it will be the customer's responsibility to see that the I.C.C. regulations are complied with.

6. See enclosure 6 for proposed disposal areas, marked in red.

7. Each container of waste will receive a serial number at the time of pickup from the customer. This will be the number which is impressed on the metal tag mentioned in section 4. This will be recorded in duplicate logs, one of which will be kept at the storage site, the other in the offices of the company. Entries will be made any time the container is moved.

Personnel monitoring records, customer disposal records and a true copy of the ship's log will be kept in the offices of the company.

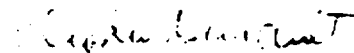
8. Land transportation furnished by the New England Tank Cleaning Company will be done by two company-owned trucks, a 1 1/2 ton Ford and a 3 ton International. All waste containers picked up at customer's site will be placed in mechanically sealed steel drums while in transit to Lovell's Island. The purpose of the drums is to prevent contamination of the transporting vehicle and also to reduce the hazard of contamination in the event of an accident. These drums will always be secured to the vehicle while in transit. The amount of activity carried at one time will never exceed the forty units as specified in the I.C.C. shipping regulations. It is therefore anticipated that no special shielding will be needed. All containers in transit will be marked with Class D poison labels and will meet all other I.C.C. shipping regulations. We find no regulations requiring that the vehicle be marked and feel that from a public relations point of view it might be best not to have it marked. We would appreciate your comments on this point. Immediately after use each vehicle will be surveyed with appropriate instruments for possible contamination.

Transportation from shore to Lovell's Island will be by company-owned barge. It will be towed by a lugger, owned by Mr. Cecil, Harbormaster of Weymouth Harbor. Disposal at sea will be made only after sufficient accumulation on Lovell's Island to fill an ocean going barge. Such barges and ocean going tugs are available for hire in the Boston area. There is on Lovell's Island a wharf suitable for the loading and the unloading of these barges. All water transportation will be done in accordance with U.S. Coast Guard regulations.

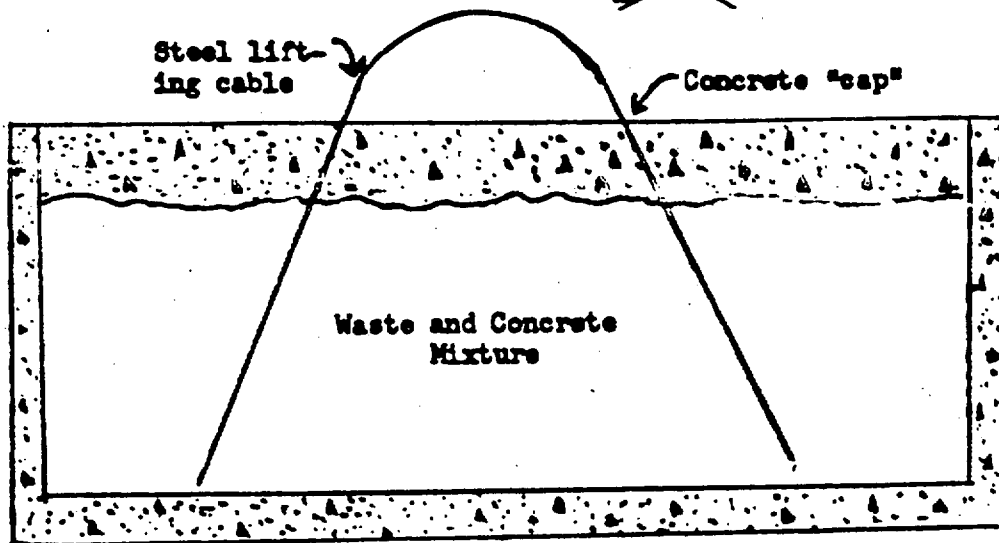
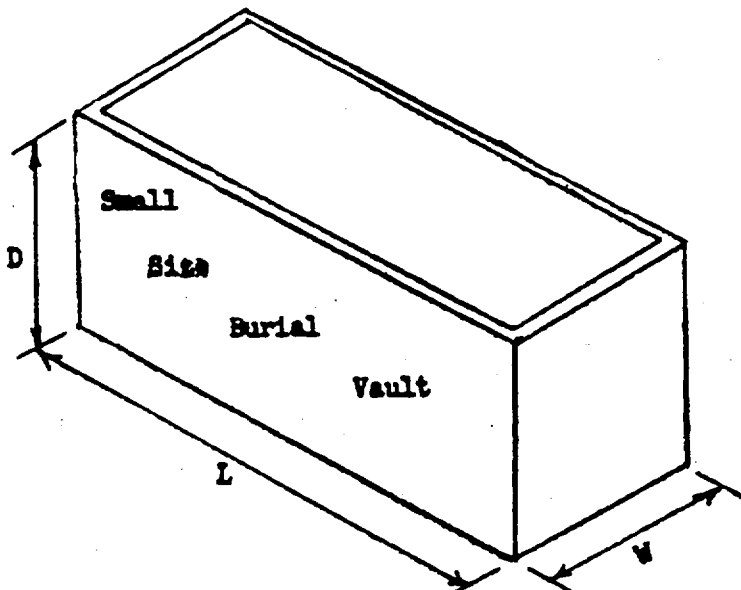
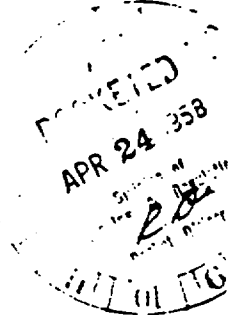
9. All transportation of radioactive material will comply with all existing regulations of the Interstate Commerce Commission, the U.S. Coast Guard and/or other cognizant agencies.

I hope that the above information will enable you to better review our application.

Sincerely yours,



Eliot W. Denault.  
New England Tank Cleaning Company



| Inches | Thick Bottom | Interior Dimensions |     |     | Capacity Cu. Ft. |
|--------|--------------|---------------------|-----|-----|------------------|
|        |              | L                   | W   | D   |                  |
| 2"     | 3 1/2"       | 40"                 | 16" | 16" | 5.9              |

Empty weight = 600 lb  
 Loaded weight = 900 to 1300 lb

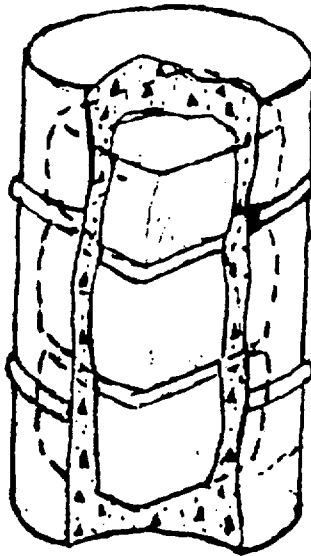
Approximately 100 to 120 lb dry waste/vault (well compacted)

Plate 4 - Special Packaging Method for some low level wastes dumped in

The Atlantic Ocean

THIS IS ONLY

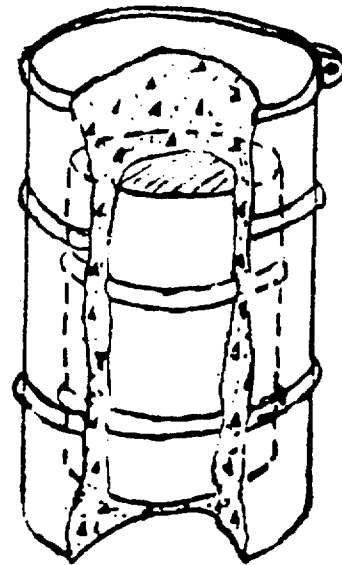
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File y.



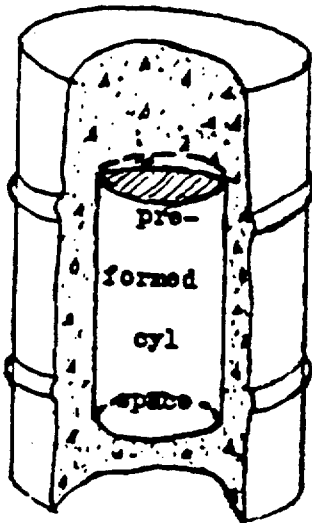
Bale of compressed combustibles



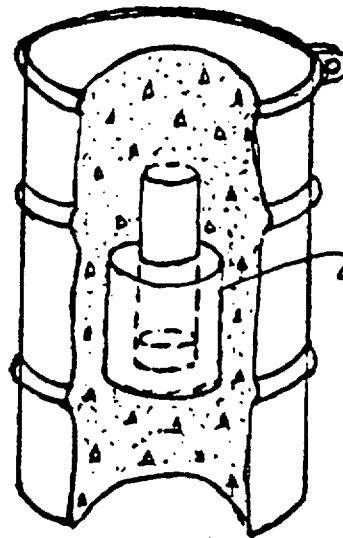
Mixture of waste materials and concrete



30 gallon drum of ashes or solidified liquids



Preformed concentric cylindrical space for more radioactive wastes



Lead shielded space for irradiated and more radioactive wastes

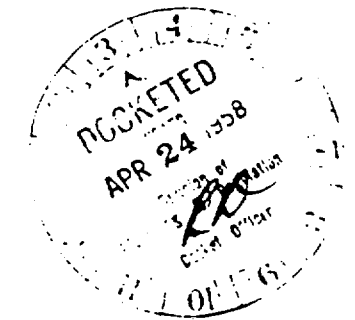


Plate 1 Cut Away Isometric Views Showing Modifications of 55 Gallon drums for Packaging Radioactive Wastes Which Are Dumped in

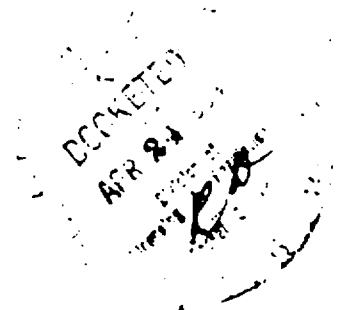
The Atlantic Ocean

27-8  
File by

GENERAL INSTRUCTIONS FOR PERSONNEL HANDLING  
RADIOACTIVE SUBSTANCES.

All procedures used in handling, processing, transporting or packaging radioactive materials should be carried out so as to insure that all personnel involved receive as low an exposure as is reasonably possible. In any case the worker shall never be permitted to receive more than the tolerance values (see Appendix 4). In addition the radioactive materials should be handled in such a way as to prevent the spreading or dissemination of these materials. The actual handling procedures will differ depending on the strength, form and type of radiation involved. However the following rules should be strictly followed in handling all radioactive substances.

1. All personnel should wear outer protective garments, coveralls, head covering and gloves.
2. Before handling any radioactive material it should be checked with a suitable survey instrument to assess its potential radiation hazard.
3. Film badges and dosimeters should be worn at all times. Check your dosimeter at frequent intervals and if in doubt check with your supervisor.
4. Eating and smoking are forbidden while handling radioactive materials.
5. At the end of the working period or before eating or smoking all personnel should check for contamination with an appropriate survey instrument.



6. Care should always be taken to prevent damage or rupture of containers.
7. Never leave radioactive materials unattended where there is any possibility of access by unauthorized personnel.
8. All spills or other accidents must be reported to supervisor.

REMEMBER IF YOU CANNOT SEE, SMELL OR FEEL RADIATION.

KNOW YOUR INSTRUMENTS AND USE THEM.



APPENDIX A

PERMISSIBLE WEEKLY DOSE

| Conditions of exposure                                 |  | Dose in critical organs (mrem)    |                      |        |             |
|--|--|-----------------------------------|----------------------|--------|-------------|
| Parts of body  | Radiation  | Skin, at basal layer of epidermis | Blood forming organs | Gonads | Lens of eye |
| Whole body-----  | Any radiation with half-value greater than 1 mm. of soft tissue. | 600                               | 300                  | 300    | 300         |
| Whole body-----  | Any radiation with half-value less than 1 mm. of soft tissue.    | 1,500                             | ---                  | ---    | ---         |
| Hands and forearms or feet and ankles or head and neck | Any radiation--  | 1,500                             | ---                  | ---    | ---         |

27-8  
File by

Emergency Procedures

1. In the event of a spill isolate the contaminated area as soon as possible so as to prevent the spread of the radioactive material. Any decontamination procedure used must be carried out so as to prevent the further spread of the radioactive material. The radiological safety officer should be consulted as to the appropriate decontamination procedure.
  
2. In the event that any portion of the skin becomes contaminated, decontamination procedure should be started as soon as possible. The first step is a thorough washing of the area in soap and running water. If this method is unsuccessful use decontamination kit. The kits, containing instructions, reagents and accessories are available at the processing site and in transporting vehicles.
  
3. In the event the skin is punctured by a contaminated object
  - a. Immediately wash wound under a strong stream of water.
  - b. Report to company recommended physician or other qualified medical personnel and specifically inform them of the nature of the radioactive material involved.
  
4. Any person who swallows or inhales radioactive material should report to his supervisor immediately.



Kathleen H. Shea, Attorney  
Office of the General Counsel

JAN 20 1958

Lyall Johnson, Chief, Licensing Branch  
Division of Licensing and Regulation

FEDERAL REGISTER NOTICE

Attached are a signed original and eight copies of Federal Register notice, as follows:

Docket No. 27-8  
New England Tank Cleaning Co.

Notice of Receipt of Application for License to Provide  
Radioactive Waste Disposal Services

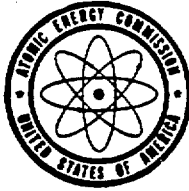
Also attached, for your signature, are the required number of copies of letter of transmittal to the Federal Register, with additional copies for internal distribution.

Attachments:  
As noted above

ITEM # 5

|           |              |            |  |  |  |
|-----------|--------------|------------|--|--|--|
| OFFICE ▶  | DLE          | DLE        |  |  |  |
| SURNAME ▶ | LR Rogers/rh | LE Johnson |  |  |  |
| DATE ▶    | 1/17/58      |            |  |  |  |

A/5



12-125

UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.  
JAN 23 1958

Mr. Bernard R. Kennedy, Director  
The Federal Register  
National Archives & Record Service  
Department of Archives  
Register Section  
Washington 25, D. C.

Dear Mr. Kennedy:

Attached for publication in the Federal Register as a Notice are an original and three certified copies of a document entitled:

Docket No. 27-8  
New England Tank Cleaning Co.

Notice of Receipt of Application for License to Provide  
Radioactive Waste Disposal Services

Publication of the above document at the earliest possible date would be appreciated.

Sincerely yours,

FILED  
and  
Dispatched

Kathleen H. Shea, Attorney  
Office of the General Counsel

Enclosures:  
Original & 3 cert. cys.

cc: Docket Clerk (CA) (w/o attachment)  
Wm. Hughes (IS) (w/cy of attachment)  
W. B. McCool (GMS) (w/cy of attachment)  
Legal Files (w/cy of attachment)  
Law Library (w/cy of attachment) Mrs. Losee  
OGC Reading File (w/cy of attachment)  
OGC Chronological File (w/o attachment)

ITEM # 6

11 (h)

UNITED STATES ATOMIC ENERGY COMMISSION  
DIVISION OF LICENSING AND REGULATION

(Docket No. 27-8)

NEW ENGLAND TANK CLEANING CO.

NOTICE OF RECEIPT OF APPLICATION FOR LICENSE TO PROVIDE  
RADIOACTIVE WASTE DISPOSAL SERVICES

Please take notice that an application for a license to provide radioactive waste disposal services has been filed by New England Tank Cleaning Co., 135 First St., Cambridge, Massachusetts.

The application specifies a maximum possession limit of 1,000 curies total of byproduct material. The radioactive material will be stored on Lowell's Island in Boston Harbor prior to burial at sea.

A copy of the application is available for public inspection in the AEC Public Document Room located at 1717 K Street, NW, Washington, D.C.

FOR THE ATOMIC ENERGY COMMISSION

Harold L. Price, Director  
Division of Licensing and Regulation

Dated at Germantown, Md.  
this 20<sup>th</sup> day of June, 1958

Certified to be a true copy of the original

Kathleen H. Stoe, Certifying Officer  
Office of the General Counsel

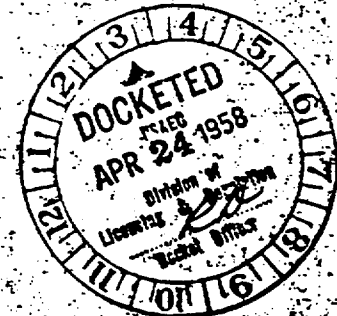
DOCKET NO. 27-8

ITEM # 7

IEB:RLH(8279)

Oak Ridge, Tennessee  
January 24, 1958

Mr. Eliot W. Densult, Jr.  
New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts



Subject: APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Dear Mr. Densult:

This will acknowledge receipt of your letter of January 17, 1958, and enclosed attachments regarding your pending application for a Byproduct Material License.

We appreciate the detailed manner in which you have replied to our letter of January 3, 1958. However, we will need information on the following items in order to continue our review of this application.

1. We have reviewed your radiological protection procedures and it appears that they do not delineate instructions to personnel on all phases of your waste disposal program. Therefore, we would suggest that you supplement your procedures accordingly and include such information as:

A. Outline the delegation of authority or responsibility on at least the following points:

- a. Person(s) directly responsible for the over-all waste disposal program.
- b. Person(s) having authority to issue or change radiological protection procedures and/or operating instructions.
- c. The name, address, and telephone number of person(s) to be notified in the event of an emergency.
- d. Person(s) directly responsible for the over-all radiation protection program.

B. Precautions to be taken during packaging of waste for ultimate disposal.

CERTIFIED A TRUE COPY

BY *[Signature]*

*h/d* (M)

Mr. Eliot W. Danault, Jr.

-2-

January 24, 1958

C. Procedures should be outlined for use of special handling equipment in the field and/or in-plant use.

We, of course, realize that certain portions of this information has already been included in your application, but we feel that these items should also be included in your radiological protection procedures.

2. Will personnel from another company handle any byproduct material while loading or unloading the vessel used for ultimate disposal? If so, will a representative from New England Tank Cleaning Company directly supervise the loading and unloading of the vessel used for the ultimate disposal of radioactive waste? Also, will personnel (other than New England Tank Cleaning Company) be furnished personnel monitoring devices?
3. Please clarify if you plan to store the radioactive waste at the company-owned barge until it is full and then transport the waste to Lovell's Island for storage or transfer the waste material immediately upon receipt even though the barge is not full. In either event, we will need information on the location of the barge in the harbor, storage and security of material until transfer to Lovell's Island.
4. There are a few items in regards to records and the matter of pesting of vehicles which we should like to discuss in greater detail during our proposed visit.

As previously discussed with Mr. R. L. Herwin in a telephone conversation of January 17, 1958, our office is transferring to Washington, D. C. during the weekend of February 14. We will be located at 1717 "H" Street and our telephone exchange will be Hazelwood 7-7800. This move to Washington, D. C. has created an extra heavy work load on personnel in this office, and hence, we will have to postpone our previously scheduled visit, to your company. We are planning to have a representative in the vicinity of Cambridge, Massachusetts during the week of February 17 through 21, and have tentatively set aside February 20 as the proposed time of our visit, if this date is agreeable with you. We will, of course, contact you at a later date to establish a definite time and date for our visit.

Very truly yours,

CERTIFIED A TRUE COPY

BY R. L. Herwin

James W. Hitch, Assistant Chief  
Isotopes Extension  
Division of Licensing and Regulation

|           |                     |              |  |  |
|-----------|---------------------|--------------|--|--|
| OFFICE ▶  | Isotopes<br>Herwin  | Isotopes     |  |  |
| SURNAME ▶ | <u>R. L. Herwin</u> | <u>Hitch</u> |  |  |
| DATE ▶    | 1/24/58             |              |  |  |

## Office Memorandum • UNITED STATES GOVERNMENT

TO : E. E. Fowler, Chief  
Radiation and Inter-Agency Branch

FROM : R. J. Frederick, ~~Chief~~, R.R.R. Section  
Licensing Branch

SUBJECT: PENDING ACTION

SYMBOL: IR&L:RJF  
Attention: L. R. Rogers

DATE: January 31, 1958

Please be advised that:

Docket No. 27-8  
New England Tank Cleaning Co.  
Notice of Receipt of Application for  
License to Provide Radioactive Waste  
Disposal Services

Citation: 23 FR 601

was filed for publication in the Federal Register on:

January 28, 1958

was published in the Federal Register on:

January 29, 1958

cc: LEJ  
Chrono file (RRR Sec.)

ITEM # 8



TELEPHONE TROWBRIDGE 6-7300

*Richard*

*27-8*  
*File by* *8852*  
*PAW*

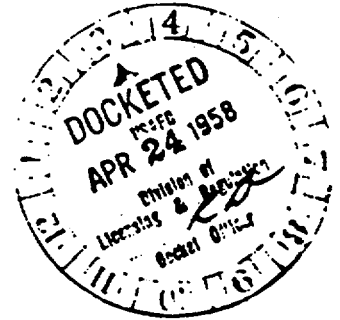
# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

4 February 1958

Mr. James W. Hitch, Assistant Chief  
Isotopes Extension  
Division of Licensing and Regulation  
U. S. Atomic Energy Commission  
Oak Ridge, Tennessee



Dear Mr. Hitch:

Thank you for your letter of January 24, 1958 (IEB:RLH (8279)) in regard to our application for a Byproduct Material License.

We hope that the enclosed answers to your further questions will allow you to continue your review of our pending application. It is of course difficult for us to give an exact description of the details involved in a new operation. We do feel, however, that our long experience in working with other hazardous materials, combined with the experience in radioactivity of our consultants, will enable us to carry out this type of operation in a safe and satisfactory manner.

1. A a,b,d. Items 9 and 10 are being added to General Instructions for Personnel Handling Radioactive Substances worded as follows:

9. Eliot W. Denault, Jr. and Eliot W. Denault, Sr. are directly responsible for the over-all waste disposal program on which you are working. No changes in operating instructions will be allowed without the consent of one of the above-named individuals.

10. No changes involving radiological protection procedures will be allowed without the consent of either Dr. Norman C. Rasmussen or Mr. Joel B. Bulkley, who are directly responsible for the over-all radiological protection program.

c. Item 5 is being added to Emergency Procedures as follows:

ITEM # 9

5. In the event of an emergency, contact one of the following persons attempting contact in the order listed.

1. Eliot W. Denault, Jr.  
Bus. phone Tr6-7300
2. Eliot W. Denault, Sr.  
Bus. phone Tr6-7300
3. Norman C. Rasmussen  
Bus. phone Un4-6900, ext. 2131
4. Joel B. Bulkley <sup>1401</sup>  
Bus. phone Un4-~~2900~~, ext. 832

1. B. The special instructions enclosed for final packaging will be issued to the limited number of personnel who will be used in this operation. These instructions may be revised from time to time as experience warrants.

1. C. At the present we do not foresee the need for special handling equipment other than hoists, fork lift, etc. When the need for special handling arises we will obtain it and provide operating instructions to our personnel

2. We expect all handling of radioactive materials to be done by New England Tank Cleaning Co. personnel, including the loading and unloading of the barge. If it becomes necessary to have other than company personnel involved, they would, of course, be supplied with personnel monitoring devices, and the operation would be supervised by our personnel.

3. The barge will be loaded at the munitions loading pier at Hingham and will be transferred immediately to Lovell's Island. Two company-owned steel conexes are available if small lots of waste are received and need to be held for a short period to combine with other lots. The barge will never be left unattended while either partially or fully loaded.

We are looking forward to your proposed visit during the week of February 17th, and the opportunity for a discussion with your representative.

Sincerely yours,

*Eliot W. Denault*  
Eliot W. Denault  
Secretary-Treasurer  
New England Tank Cleaning Co.

## Special Instructions for Final Packaging Operations

Personnel involved in this operation must realize that it is potentially a hazardous operation because of the possibility of intimate contact with the radioactive materials. Therefore, all operations must be carried out as as to prevent direct contact with the radioactive materials or the ingestion or inhalation of them.

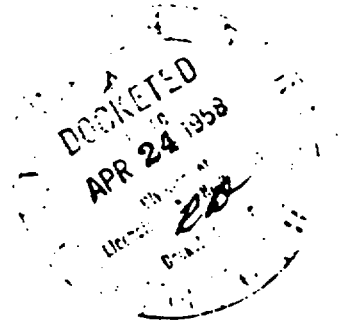
The following instructions must be strictly adhered to in this operation.

1. All rules in the general instructions must be followed.
2. Two working survey meters should be on hand at all times.
3. In addition to the protective clothing listed in general instructions, face masks and shoe coverings must be worn in this operation.
4. This operation shall always be carried out in the prescribed packaging area.
5. An area survey will be made at the conclusion of packaging operations.
6. Protective clothing will be removed at the packaging area at the conclusion of operations and a careful personal survey made.

NEW ENGLAND TANK CLEANING CO.

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.  
27 February 1958



Mr. James W. Hitch, Assistant Chief  
Isotopes Extension  
Division of Licensing and Regulation  
U. S. Atomic Energy Commission  
1717 H Street  
Washington 25, D. C.

Dear Mr. Hitch:

In accordance with our discussion during your recent visit, we would like to have the following material made a part of our application for a by-product license for waste disposal purposes.

1. Material accepted for disposal at sea will be stored temporarily at either Lovell's Island or Great Brewster Island in Boston Harbor.
2. Material accepted for disposal at sea will not be stored at either of the island sites for more than three years.
3. In the event that the New England Tank Cleaning Co. at any time decides to go out of the radioactive waste disposal business, we agree to leave all storage areas uncontaminated.
4. For most materials the containers used for ultimate sea disposal will be of reinforced concrete and have a strength calculated to withstand the pressure differential to be experienced at 1000 fathoms. The minimum specific gravity of the package will be 1.2. The minimum concrete thickness will be 2-1/2 inches.
5. Containers for sea disposal will be marked with metal tags, previously described, riveted to them.
6. Vehicles transporting radioactive materials will be marked with signs whose lettering will be a minimum of 3 inches high.

*bonding necessary* →

CERTIFIED A TRUE COPY

BY \_\_\_\_\_

ITEM # 10

*Alin (2)*

Mr. James W. Hitch

-2-

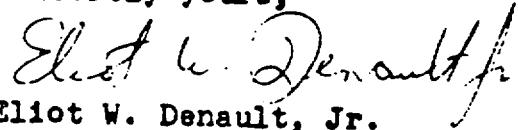
27 February 1958

7. Storage vaults on the island sites will be well marked. They will be securely locked at all times that authorized personnel are not present.

8. All phases of the waste disposal operation will be carried out in accordance with Part 20 of the Federal Register regulations.

Since your recent visit we have been in contact with city and state officials as you suggested. We enjoyed the opportunity of meeting and talking with you and found it very helpful.

Sincerely yours,



Eliot W. Denault, Jr.  
President

MAR 28 1958

TELEPHONE TROWBRIDGE 6-7300

27-8  
File by 9840

# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING · VINYL PLASTIC LININGS  
STEAM CLEANING · WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

26 March 1958

Mr. James W. Hitch, Assistant Chief  
Isotopes Extension  
Division of Licensing and Regulation  
U. S. Atomic Energy Commission  
1717 H. Street  
Washington 25, D. C.

28

Dear Mr. Hitch:

We have heard nothing from you since your visit here in February relative to our application for a by-product license for waste disposal purposes.

In our letter of 27 February 1958, we attempted to answer all the questions which you raised at that time. We would appreciate knowing whether you now consider our application to be in satisfactory form.

Sincerely yours,



Eliot W. Denault, Jr.  
President

JBB:bnk

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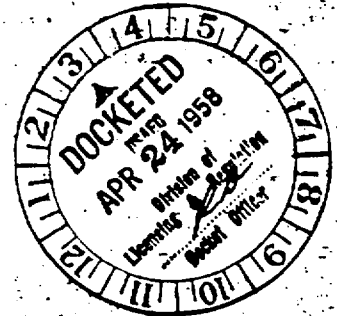
ITEM #     //    

111 6

1717 E Street, N. W.

IN REPLY REFER TO:  
ELR/IB:ELR (8279)

March 28, 1958



New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

CLERKED BY *R. E. Hervey* FREE COPY

Attention: Eliot W. Donault, Jr.  
Eliot W. Donault, Sr.

Subject: APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Gentlemen:

This is in response to your letter of February 27, 1958, and your telephone conversation of March 27, 1958, with Mr. R. L. Hervey, regarding your pending application for a Byproduct Material License.

We also called you on March 28, 1958, to discuss the information which we will need to continue our review of your application. However, you were not available at the time of our call, and since I will be out of town next week, we are writing in order to expedite your application. For further consideration of your application, the following information is necessary:

1. Please clarify if you also desire to dispose of source and special nuclear materials as well as byproduct materials. If you desire to dispose of only byproduct materials between atomic number 3 to 83, we will not need additional information on this item. However, if you desire to dispose of source and/or special nuclear material, we will need to know how many grams or pounds for each type of material you will possess at any one time.
2. Please confirm that the truck and/or boat (barge) will be surveyed after use for transporting radioactive waste. Also, confirm that if any contamination is detected, the equipment will be decontaminated.

|           |                     |  |  |  |  |
|-----------|---------------------|--|--|--|--|
| OFFICE ▶  | <i>R. E. Hervey</i> |  |  |  |  |
| SURNAME ▶ |                     |  |  |  |  |
| DATE ▶    |                     |  |  |  |  |

- 3. It would assist us if we had a copy of the forms which will be utilized in maintaining the record system on the waste disposal service. This should include a copy of the form which will be given to the customer certifying the receipt of byproduct material wastes for ultimate disposal.
- 4. It is recommended that Dr. Norman G. Rasmussen and/or Mr. Joel B. Bulkley be listed as the individual users on your initial application due to their extensive training and experience with radioactivity. However, this does not preclude the handling of byproduct material by Mr. Demault, Jr. or other personnel in the New England Tank Cleaning Company as long as they are under the supervision of Dr. Rasmussen or Mr. Bulkley. At a latter date we could amend the license to include Mr. Demault, Jr. upon additional "on the job" experience.

We regret the delay in the processing of your application but feel this information is necessary in order that we may fully evaluate your program.

Thank you for your co-operation.

Very truly yours,

James W. Hitch, Assistant Chief  
Isotopes Branch  
Division of Licensing and Regulation

CERTIFIED TRUE COPY  
BY R. F. Herwig

|           |           |     |  |  |  |  |
|-----------|-----------|-----|--|--|--|--|
| OFFICE ▶  | DLR       | DLR |  |  |  |  |
| SURNAME ▶ | RI Herwig | CRB |  |  |  |  |
| DATE ▶    | 3/28/58   |     |  |  |  |  |



APR 7 1958

TELEPHONE TROWBRIDGE 6-7300

DOCKET No. 278

113

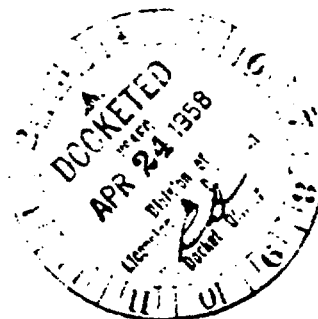
NEW ENGLAND TANK CLEANING CO. *File by*

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITA

135 FIRST STREET, CAMBRIDGE 41, MASS.

1 April 1958

Mr. James W. Hitch, Asst. Chief  
Isotopes Branch  
Division of Licensing and Regulation  
U. S. Atomic Energy Commission  
1717 H Street N.W.  
Washington 25, D. C.



Dear Mr. Hitch:

In reply to your letter of March 28 the following are answers to your questions.

1. As per our conversation when you were here we intend to handle only byproduct material between atomic numbers 3 and 83 in the initial phases of our operation.
2. We will survey all equipment used in transporting radioactive wastes after each use, and will decontaminate to safe levels when the survey indicates it is necessary.
3. Enclosed are two sample forms NETCCO 100 and NETCCO 200. NETCCO 100 will be used by customers to keep a running record of the wastes in a particular container. A copy of this form will be picked up with the waste container. Customers shipping to us directly will be required to mail one of these forms to us for each container shipped. NETCCO 200 will be filled out in duplicate and a copy given to the customer at the time of receipt of material. The duplicate copy will be kept on permanent file in our office and the final disposition will be recorded at the appropriate time.
4. We are agreeable to having Dr. Norman C. Rasmussen listed as the individual user on our application, with the understanding that as soon as adequate on the job training

ITEM # 13

Mr. James W. Hitch

-2-

1 April 1958

has been obtained, the application could be amended to include the name of Eliot W. Denault, Jr.

Sincerely yours,

Eliot W. Denault, Jr.  
President

New England Tank Cleaning Co.  
135 First Street  
Cambridge, Massachusetts

Name:

Address:

Liquid

Waste Container Number \_\_\_\_\_

Solid

Contents of Container

Date

Isotope

Approximate Activity ( $\mu$ c)

Note: Radiation level for regular disposal must not exceed 200 mr/hr at any surfact of container.

New England Tank Cleaning Co.  
135 First Street  
Cambridge, Massachusetts

Received from:

Date:

Waste Container Number \_\_\_\_\_ Liquid  
containing approximately \_\_\_\_\_  $\mu$ c Solid  
total activity

Principal radioactive isotope(s) \_\_\_\_\_

Received for New England Tank Cleaning Co.

by \_\_\_\_\_  
Authorized Signature

Final disposition \_\_\_\_\_

(This appears on company copy only)

SECRET

NO. 27-8  
*Suppl. File only*

DLR:IB:JWH (8279)

April 9, 1958

TELEPHONE CALL TO: Mr. Eliot W. Denault  
New England Tank Cleaning Company  
Cambridge, Massachusetts

In response to his call of the 7th regarding his pending application for a waste disposal license. Discussed with Mr. Denault his need for air sampling equipment and he pointed out that all handling of radioactive waste and the packaging of this material would be done in the open on the island and it was doubtful that air sampling equipment would be justified; however, since Dr. Rasmussen and Mr. Buckley, their consultants, would be advising them and since Dr. Rasmussen would be the person directly responsible for the use, air collection equipment would be brought into the picture when and if it appeared advisable. A question was also put to Mr. Denault in regard to what a "conex" was. It was learned that a conex is a steel box which is used around barges and which is closed by a steel cover, provided with a locking mechanism. This equipment is to be used for certain handling of radioactive waste containers when left on a barge overnight; however, he pointed out that the material would be under supervision even when left overnight at the munitions wharf. The degree of supervision by Dr. Rasmussen was discussed in some detail and Mr. Denault indicated that full supervision by Dr. Rasmussen would be carried out. It was pointed out to Mr. Denault that he had not yet indicated which island he wished to use and he stated that he ~~would~~ had options to buy both the outer Brewster and the Greater Brewster Islands. He did point out that Greater Brewster might not have facilities already installed sufficient for their overall needs and that on a further look at the Outer Brewster Island, he felt that the facilities there were much more adequate, in fact, the facilities there were more comparable to those on the Lovell Island which was well equipped with underground storage rooms enabling the material to be locked. It was pointed out to Mr. Denault that this writer did not visit the Outer Brewster site on his recent visit to Boston as it appeared that the Lovell Island or the Greater Brewster Island would be used. Pointed out that we would want to specify the island prior to the issuance of a license. Mr. Denault agreed to this limitation. He is still waiting on an answer from the GAO people concerning his high bid for the Lovell Island property. <sup>5A</sup>

The matter of the length of time involved in storage of material had been discussed with Mr. Denault prior and it was pointed out to him that a limitation on the license as to the actual time of storage will be provided for. This he agreed to.

CERTIFIED A TRUE COPY  
BY R. J. [Signature]

BY \_\_\_\_\_

ITEM # 14

*[Handwritten mark]*

27-8

# Office Memorandum • UNITED STATES GOVERNMENT

TO : Isotopes Branch Files

DATE: April 14, 1958

FROM : *Just* James W. Fitch, Assistant Chief, Isotopes Branch, Div. of Licensing and Regulation

SUBJECT: TRIP REPORT TO THE NEW ENGLAND TANK CLEANING COMPANY, 135 FIRST STREET, CAMBRIDGE 41, MASSACHUSETTS, ON ~~MARCH~~ *Feb.* 20, 1958

This company is owned by Mr. Elliot W. Denault and son, Elliot W. Denault, Jr., and will employ as consultants, Dr. Norman Rasmussen of the MIT cyclotron group and Mr. Joel Bulkey, Administrative Assistant to Dr. Robley Evans also with MIT. Mr. Denault pointed out that he had been approached some time ago by certain people concerned with radioactive wastes who were looking for a company who would take financial responsibility for proper disposal of radioactive wastes. Mr. Denault admitted that he knew very little about radiation problems himself but if he was granted a license he would abide by the procedures and recommendations of both Dr. Rasmussen and Mr. Bulkey. It is his thought however, that after obtaining training and learning how to cope with problems of handling of radioactive wastes that he and Mr. Denault, Jr. will be able to carry on much of their operations with less consultation with their consultants.

This company has had extensive contracts in the petroleum industry in the cleaning and overhauling of fuel tanks and other equipment used for the transportation of petroleum products. Mr. Denault pointed out that he felt that his company was financially able to stand behind any operations which they would choose to carry out. He also stated that he would be willing to furnish a financial statement of his company if the AEC required one. This writer pointed out that he was not in a position to ask for financial statements at this time however, if he cared to send one it would be handled on a confidential basis.

Mr. Denault had set up facilities for inspecting two islands in the Boston Harbor which in the past had been used by military groups for storage of gun powder. This first island we looked at was named Greater Brewster. Mr. Denault has a option to buy this island, however, he preferred to buy Lovell Island which we later looked at. The Brewster Island has underground storage rooms built of concrete and the entrance is secured by heavy steel doors. The storage area on this island is probably about 1/10 the storage space as provided on Lovell Island., but may be adequate for as much material covered by the possession limit in his application. We then went to the Lovell Island through heavy snows and found a very complete underground storage facilities all secured in dry concrete enclosed rooms. Rooms are equipped with drain channels in case of accumulated moisture; however, they were quite dry at the time of our visit even though heavy snows had fallen a few days before.

ITEM # 15

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April 14, 1958

On our return to the offices of this company, I again discussed with Mr. Denault (He did not make the trip to the islands) the AEC's philosophy for disposal of radioactive waste. It was pointed out that we would want certain understandings with him in regard to how long the wastes might be stored and certainly it should not be stored over such a period of time that corrosion would take place with the containers thereby spreading contamination over facilities and transportation equipment. It was also pointed out that the AEC would wish some guarantee that material would be properly disposed of and would not be left at these facilities as an added burden to the AEC and the general public in respect to getting rid of the material. Mr. Denault then pointed out that he would be willing to furnish a statement of his financial condition to show that he would be financially responsible for any operations which he might undertake.

It was learned that the Lovell Island is now in the possession of GSA and may not be made available to Mr. Denault; however, they were to notify him by February 22 whether or not his "high" bid would be honored. He hopes to hear within a few days from the time of my visit. If he is unable to obtain the Lovell Island, he will purchase the Greater Brewster Island. Both islands are equipped with wharfs and will need some repair prior to becoming practical. It was pointed out that we routinely require a 10 day notice prior to a disposal event at sea, Mr. Denault expressed no opposition to this requirement. It was pointed out to Mr. Denault the outline of his program was hardly in sufficient detail to enable us to issue a license; therefore, several things should be clarified prior to such issuance. Our requirements for administrative procedures, emergency procedures, labelling and posting were all outlined to Mr. Denault and to both Dr. Rasmussen and Mr. Bulkley. Mr. Bulkley made a list of these requirements and indicated they would send the information to us by the weekend. In general our requirements for waste disposal applications as well as compliance with 10 CFR-20 was discussed. Mr. Denault promised to supply us with additional information by that weekend. (As I dictate this on March 1, we have not yet received the information which he promised to send.)

I later talked to Dr. Harriet Hardy, Chairman of the Radioisotopes Committee at MIT and Mr. Sam Leven, Radiation Safety Officer at this institution. Both of them indicated that there were many people concerned with radioactive waste disposal in that area who were much interested in seeing a responsible group get into the business. Both of them indicated that Bulkley and Rasmussen would certainly be able to advise on the safe handling of radioactive wastes and felt that they would like to see some other group other than Crossroads be licensed to dispose of these materials.

Summary:

This company appears to be a responsible group.- Especially if Dr. Rasmussen and Mr. Bulkley acting as their advisors.

The proposed locations should offer excellent advantages from the standpoint of security of material.



Office Memorandum • UNITED STATES GOVERNMENT 27-8  
EX-104 only

TO : L. R. Rogers, Chief, Radiation Safety Branch      DATE: April 21, 1958  
       Division of Licensing and Regulation

FROM : *J. W. H.* J. H. Mason, Chief, Isotopes Branch  
       Division of Licensing and Regulation

SUBJECT: TRANSMITTAL OF INFORMATION RELATED TO NEW ENGLAND TANK CLEANING  
           COMPANY AND PROPOSED LICENSE NO. 20-3541-1D60

SYMBOL: DLR/IB:RLH

Pursuant to Sections A through D of August 23, 1957, memo, "Docket System for Radioactive Waste Disposal Licenses", we have enclosed information pertinent to licensing of the New England Tank Cleaning Company, Cambridge 41, Massachusetts. It is our understanding that you will send to the applicant copies of the statement of consideration and the proposed license at the time they are filed with the Federal Register.

## Enclosures:

1. Copy of memo (J. W. H. to files): Statement of consideration for issuance of License No. 20-3541-1D60 dated April 21, 1958.
2. Copy of proposed License No. 20-3541-1D60
3. Pertinent background information

ITEM # 16

Isotopes Branch Files

April 21, 1958

James H. Mitch, Assistant Chief  
Isotopes Branch  
Division of Civilian Application

STATEMENT OF CONSIDERATION FOR THE ISSUANCE OF LICENSE NO. 20-3541-1D60

SYMBOL: IB:RLH

New England Tank Cleaning Company, 135 First Street, Cambridge Massachusetts, has submitted an application for a Byproduct Material License to collect, prepare for disposal, and dispose of byproduct material wastes. The application has been reviewed, and it has been determined that the licensed material can be handled and disposed of in accordance with Federal Regulations. This determination was reached after consideration of the following:

1. Experience of Personnel. The operations covered by License No. 20-3541-1D60 will be carried out under the supervision of Mr. Norman C. Rasmussen. Mr. Rasmussen has a Ph.D. in Nuclear Engineering from the Massachusetts Institute of Technology as well as 6 years of experience in handling of copious (curies) quantities of radioisotopes with the Radioactivity Center and Cyclotron Group at M. I. T. Also, Mr. Joel E. Bulkley has been hired as a consultant for the program. Mr. Bulkley has 11 years of experience in the handling of radioisotopes at the Radioactivity Center and Cyclotron Group at M. I. T. Three members of the New England Tank Cleaning Company have attended several sessions on radiation hazards involved in their proposed program. In addition, the New England Tank Cleaning Company will have available other specialists from the Massachusetts Institute of Technology in Chemistry and other fields should special problems arise in their waste disposal program. Mr. Norman C. Rasmussen and Mr. Joel E. Bulkley have sufficient training and experience in the handling and disposal of radioactive material to provide assurance that the material will be handled and used in such a manner as to protect the health and minimize danger to life and property.
2. Equipment and Facilities. New England Tank Cleaning Company owns trucks, necessary devices for loading and unloading vehicles, remote handling equipment, and similar items which appear to be commensurate with their proposed program. The applicant has indicated that transportation will be in accordance with the regulations of

April 21, 1958

the ICC, U. S. Coast Guard, and/or other cognizant agencies. The driver is provided with instructions to follow in the event of a road emergency. Safety equipment includes radiation survey instruments, personnel monitoring devices, protective clothing, respiratory equipment, remote handling devices, and any items which may be deemed necessary by the individual user (Mr. Rasmussen).

Adequate storage facilities are available for holding the waste prior to final disposal. The New England Tank Cleaning Company will store and process byproduct material wastes on one of the following islands: Greater Brewster Island, Outer Brewster Island, or Lovell's Island. These islands are honey-combed with underground storage vaults (previously used for storage of ammunition by U. S. Army) which are protected by varying thicknesses of concrete (minimum of four feet) plus varying thicknesses of earth. All vaults are protected with inner and outer steel doors. The islands contain approximately 100,000 to 300,000 cubic feet of storage area on each of the islands. The vaults are dry, as would be expected in a normal storage area previously used for explosives. The waste will be stored in these areas for a maximum of a three-year period. The islands are uninhabited and access is made only by boat from Boston to the islands. The islands contain necessary loading docks and the island will be properly posted and the steel doors at the vault will be posted in accordance with 10-CFR-20. The wastes will be transferred to the island without undue delay upon receipt of the wastes by the New England Tank Cleaning Company.

The procedures outlined by the applicant are to be used with the above equipment and facilities during the handling and storage of the licensed material and minimize radiological safety hazards. All vehicles and all vessels utilized in the transportation of drums for ultimate disposal will be surveyed and any detectable contamination is to be removed from the transportation vehicle or vessel. It appears that the facilities, equipment, and procedures are adequate for the proposed radioactive waste disposal program.

3. Packaging and Recording Procedures. The majority of containers will be 55 gallon drums utilizing concrete to insure a specific gravity of 1.2 for the package with a minimum wall thickness of 2½ inches of concrete, and an inner matrix of wastes and concrete to assure there will be no voids in final package. The specific



details of the final package will primarily be in accordance with the five methods shown on Plate 1, page 10, of Document, United States Sea Disposal Operations, NASH 734. Also, if some waste materials require special packaging a concrete vault described on Plate No. 4, page 13 of the above document may also be utilized. In all instances the materials packaged will have no significant voids and will meet the recommendations of Section 1.2d and Section 8 of the National Bureau of Standards Handbook 58. The packages are to be labeled in accordance with AEC approved procedures.

A record system will be maintained as recommended in Section 1.2c, page 4 of the National Bureau of Standards Handbook 58, as well as records on radiation survey results; personnel monitoring results; records for customers; total activity in each container; a true copy of the ship's log for each disposal; and stowage items. The proposed record system appears to be adequate to assure compliance with provisions contained in 10-CFR-20 and 10-CFR-30.

4. Site and Methods of Disposal. The applicant will notify the AEC 10 days prior to any disposal event. The site will be in a water depth over 1000 fathoms and in an approved dumping area for hazardous materials. The disposal area is bounded by the following corner points: 65° 40', 65° 26', longitude) and 41° 28', 41° 38', latitude. Disposal at sea will be made only after sufficient accommodation on the island to fill an ocean-going barge. Such barges and ocean-going vessels are available for hire in the Boston area. All water transportation will be in accordance with U. S. Coast Guard Regulations.

All equipment used in transporting the radioactive wastes will be decontaminated to safe levels when survey results indicate it is necessary. Personnel from the New England Tank Cleaning Company together with proper instrumentation for measuring radiation or contamination, protective clothing, and stowage items will accompany the vessel to the ultimate disposal site to assure proper radiological safety practices on the sea journey. Only personnel from the New England Tank Cleaning Company will handle the drums directly. Film badges are to be worn by personnel engaged in transporting and disposing of the drums.

The disposal of radioactive waste of the types and levels specified in the application in 1000 fathoms of sea water, when

April 21, 1958

packaged in such a manner as to provide reasonable assurance that the material reaches the bottom is considered a safe method of radioactive waste disposal. The concentrations of radioactive material released into sea water when diluted with the available dilution media at this depth are highly unlikely to exceed, and in all probability will be far less than the permissible concentrations for drinking water in unrestricted areas as specified in Part 20, "Standards for Protection Against Radiation". Further, this method of disposal provides reasonable assurance that persons in unrestricted areas will not receive radiation doses in excess of permissible levels and concentrations in unrestricted area as specified in Part 20.

5. **Conclusions.** The above considerations indicate that operations described in New England Tank Cleaning Company's application for Byproduct Material License, dated December 19, 1957, will be in compliance with 10-CFR-20, 10-CFR-30, and other applicable regulations or recommendations involving the sea disposal of radioisotopes. Based on the above considerations, it is concluded that: There is sufficient information to provide reasonable assurance that the activity authorized under the proposed license can be carried out without undue risk to the health and safety of the public or the applicant.

DR/IB  
RHS:rvjh/bq

HR/IB

**By-PRODUCT MATERIAL LICENSE  
PROPOSED**

THIS COPY IS FOR YOUR FILE

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

|                 |  |                                      |
|-----------------|--|--------------------------------------|
| <b>Licensee</b> |  |                                      |
| 1. Name         | New England Tank Cleaning Company<br>Radioactive Waste Disposal Branch | 3. License number<br>20-3541-1D60    |
| 2. Address      | 135 First Street<br>Cambridge 41, Massachusetts                        | 4. Expiration date<br>April 30, 1960 |
|                 |  | 5. Reference No.                     |

|  |                                  |   |
|--|----------------------------------|---|
| 6. Byproduct material<br>(element and mass number)                   | 7. Chemical and/or physical form | 8. Maximum amount of radioactivity<br>which licensee may possess at any<br>one time |
| Any byproduct material<br>between atomic numbers 3-<br>83, inclusive | Any form as waste materials      | Total, 1000 curies  |

9. Authorized use
1. Collection of byproduct materials in the form of wastes from Atomic Energy Commission licensed users.
  2. Preparation of waste materials for storage and disposal.
  3. Sea disposal of byproduct material wastes.

**CONDITIONS**

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
11. Byproduct materials in the form of wastes to be handled by or under the supervision of Norman C. Rasmussen.
12. Byproduct material wastes may be processed and stored only at Lovell's Island, Boston, Massachusetts; Greater Brewster Island, Boston, Massachusetts; or Outer Brewster Island, Boston, Massachusetts.
13. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation".
14. A curie of Iridium 192 is defined as that quantity of activity which presents a radiation intensity of 0.55 roentgen per hour at a distance of one meter.
15. Written administrative instructions covering radiological protection, control, and security of byproduct material shall be supplied to each individual using or having responsibility for use of such material.

(see page 2)

For the U. S. Atomic Energy Commission

Date April 21, 1958

by PROPOSED

PROPOSED

Division of Licensing and Regulation  
Washington 25, D. C.

U. S. ATOMIC ENERGY COMMISSION  
B. BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

PROPOSEDLicense Number 20-3541-1D60

THIS COPY IS FOR YOUR FILES

CONTINUED:

## CONDITIONS

16. Licensed material to be handled, used, and disposed of in accordance with application dated December 19, 1957, and subsequent supporting information and procedures submitted by the New England Tank Cleaning Company.
17. At least 10 days prior to each disposal event the licensee shall notify the Atomic Energy Commission of the ownership and description of vessel used for sea disposal, proposed date for disposal, total number of containers (barrels, etc.), the total activity in millicuries, and the most hazardous radioisotope(s) contained in each container.
18. The licensee shall comply with the following conditions for transportation of license material outside of a restricted area:

Every motor vehicle transporting radioactive material with a quantity greater than 500 millicuries must be marked or placarded "Caution - Radioactive Material" on each side and the rear with the placard or lettering not less than three inches high on a contrasting background.

If material is to be temporarily stored while en-route, the storage site or area shall be appropriately posted in accordance with 10-CFR-20 and adequately secured against unauthorized entry by continual surveillance or locked to make area inaccessible. Such temporary storage shall not exceed a 24 hour period.
19. Ultimate disposal of byproduct material shall be confined to an area bounded by lines intersecting the following corner points:  $65^{\circ} 40' - 65^{\circ} 26'$ , longitude; and  $41^{\circ} 28' - 41^{\circ} 38'$ , latitude.

For the U. S. Atomic Energy Commission

Date April 21, 1958PROPOSEDby PROPOSEDDivision of Licensing and Regulation  
Washington 25, D. C.

**U. S. ATOMIC ENERGY COMMISSION**  
**BYPRODUCT MATERIAL LICENSE**  
**PROPOSED**

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

|  |  |   |
|--|--|---|
| <b>Licensee</b>  |  |   |
| 1. Name  | New England Tank Cleaning Company<br>Radioactive Waste Disposal Branch | 3. License number<br>20-3541-1160   |
| 2. Address   | 15 First Street<br>Cambridge 41, Massachusetts                         | 4. Expiration date<br>April 30, 1960  |
|  |  | 5. Reference No.  |
| 6. Byproduct material<br>(element and mass number)   | 7. Chemical and/or physical form                                       | 8. Maximum amount of radioactivity<br>which licensee may possess at any<br>one time |
| Any byproduct material<br>between atomic numbers 3-<br>83, inclusive                                     | any form as waste materials  | Total, 1000 curies  |
| 9. Authorized use  |  |   |
| 1. Collection of byproduct materials in the form of wastes from Atomic Energy Commission licensed users. |  |   |
| 2. Preparation of waste materials for storage and disposal.  |  |   |
| 3. Sea disposal of byproduct material wastes.  |  |   |

**CONDITIONS**

- 10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
- 11. Byproduct materials in the form of wastes to be handled by or under the supervision of Herman C. Rasmussen.
- 12. Byproduct material wastes may be processed and stored only at Lovell's Island, Boston, Massachusetts; Greater Brewster Island, Boston, Massachusetts; or Outer Brewster Island, Boston, Massachusetts.
- 13. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation".
- 14. A curie of Iridium 192 is defined as that quantity of activity which presents a radiation intensity of 0.55 roentgen per hour at a distance of one meter.
- 15. Written administrative instructions covering radiological protection, control, and security of byproduct material shall be supplied to each individual using or having responsibility for use of such material.

For the U. S. Atomic Energy Commission

Date April 21, 1958

**PROPOSED**

by PROPOSED  
Division of Licensing and Regulation  
Washington 25, D. C.



U. S. ATOMIC ENERGY COMMISSION  
BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

PROPOSED

License Number 20-1901-2160

CONTINUED:

CONDITIONS

- 16. Licensed material to be handled, used, and disposed of in accordance with application dated December 19, 1957, and subsequent supporting information and procedures submitted by the New England Tank Cleaning Company.
- 17. At least 10 days prior to each disposal event the licensee shall notify the Atomic Energy Commission of the ownership and description of vessel used for such disposal, proposed date for disposal, total number of containers (barrels, etc.), the total activity in milluries, and the most hazardous radioisotope(s) contained in each container.
- 18. The licensee shall comply with the following conditions for transportation of licensed material outside of a restricted area:  
 Every motor vehicle transporting radioactive material with a quantity greater than 500 milluries must be marked or placarded "Caution - Radioactive Material" on each side and the rear with the placard or lettering not less than three inches high on a contrasting background.  
 If material is to be temporarily stored while en-route, the storage site or area shall be appropriately posted in accordance with 10-CFR-20 and adequately secured against unauthorized entry by continual surveillance or locked to make area inaccessible. Such temporary storage shall not exceed a 24 hour period.
- 19. Ultimate disposal of byproduct material shall be confined to an area bounded by lines intersecting the following corner points: 65° 40'-50" N61', Longitude 1 and 41° 08'-41° 38', Latitude.

For the U. S. Atomic Energy Commission

Date April 21, 1958

PROPOSED

by PROPOSED

Division of Licensing and Regulation  
Washington 25, D. C.

**U. S. ATOMIC ENERGY COMMISSION**  
**BYPRODUCT MATERIAL LICENSE**  
**PROPOSED**

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

|  |  |   |
|--|--|---|
| <b>Licensee</b>  |  |   |
| 1. Name  | New England Tank Cleaning Company<br>Radioactive Waste Disposal Branch | 3. License number<br>20-3541-1D60   |
| 2. Address   | 135 First Street<br>Cambridge 41, Massachusetts                        | 4. Expiration date<br>April 30, 1960  |
|  |  | 5. Reference No.  |
| 6. Byproduct material<br>(element and mass number)                   | 7. Chemical and/or physical form                                       | 8. Maximum amount of radioactivity<br>which licensee may possess at any<br>one time |
| Any byproduct material<br>between atomic numbers 3-<br>83, inclusive | Any form as waste materials  | Total, 1000 curies  |

9. Authorized use

1. Collection of byproduct materials in the form of wastes from Atomic Energy Commission licensed users.
2. Preparation of waste materials for storage and disposal.
3. Sea disposal of byproduct material wastes.

**CONDITIONS**

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
11. Byproduct materials in the form of wastes to be handled by or under the supervision of Norman C. Rasmussen.
12. Byproduct material wastes may be processed and stored only at Lovell's Island, Boston, Massachusetts; Greater Brewster Island, Boston, Massachusetts; or Outer Brewster Island, Boston, Massachusetts.
13. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation".
14. A curie of Iridium 192 is defined as that quantity of activity which presents a radiation intensity of 0.55 roentgen per hour at a distance of one meter.
15. Written administrative instructions covering radiological protection, control, and security of byproduct material shall be supplied to each individual using or having responsibility for use of such material.

(see page 2)

For the U. S. Atomic Energy Commission

Date April 21, 1958

*Harris*

**PROPOSED**

by PROPOSED  
Division of Licensing and Regulation  
Washington 25, D. C.

U. S. ATOMIC ENERGY COMMISSION  
BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

PROPOSED

License Number 20-3541-1060

**CONTINUED:**

**CONDITIONS**

16. Licensed material to be handled, used, and disposed of in accordance with application dated December 19, 1957, and subsequent supporting information and procedures submitted by the New England Tank Cleaning Company.
17. At least 10 days prior to each disposal event the licensee shall notify the Atomic Energy Commission of the ownership and description of vessel used for sea disposal, proposed date for disposal, total number of containers (barrels, etc.), the total activity in millicuries, and the most hazardous radioisotope(s) contained in each container.
18. The licensee shall comply with the following conditions for transportation of licensed material outside of a restricted area:

Every motor vehicle transporting radioactive material with a quantity greater than 500 millicuries must be marked or placarded "Caution - Radioactive Material" on each side and the rear with the placard or lettering not less than three inches high on a contrasting background.

If material is to be temporarily stored while en-route, the storage site or area shall be appropriately posted in accordance with 10-CFR-20 and adequately secured against unauthorized entry by continual surveillance or locked to make area inaccessible. Such temporary storage shall not exceed a 24 hour period.

19. Ultimate disposal of byproduct material shall be confined to an area bounded by lines intersecting the following corner points:  $65^{\circ} 40' - 65^{\circ} 26'$ , longitude; and  $41^{\circ} 28' - 41^{\circ} 38'$ , latitude.

For the U. S. Atomic Energy Commission

~~Signature~~  
James H. Mason

Date April 21, 1958

PROPOSED

by PROPOSED

Division of Licensing and Regulation  
Washington 25, D. C.

*Hwin*

**BYPRODUCT MATERIAL LICENSE**

**PROPOSED**

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 30, Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

|  |  |   |
|--|--|---|
| <b>Licensee</b>  |  |   |
| 1. Name  | New England Tank Cleaning Company<br>Radioactive Waste Disposal Branch | 3. License number<br>20-3541-1D60   |
| 2. Address   | 135 First Street<br>Cambridge 41, Massachusetts                        | 4. Expiration date<br>April 30, 1960  |
|  |  | 5. Reference No.  |
| 6. Byproduct material<br>(element and mass number)                   | 7. Chemical and/or physical form                                       | 8. Maximum amount of radioactivity<br>which licensee may possess at any<br>one time |
| Any byproduct material<br>between atomic numbers 3-<br>83, inclusive | Any form as waste materials  | Total, 1000 curies  |

9. Authorized use

1. Collection of byproduct materials in the form of wastes from Atomic Energy Commission licensed users.
2. Preparation of waste materials for storage and disposal.
3. Sea disposal of byproduct material wastes.

**CONDITIONS**

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
11. Byproduct materials in the form of wastes to be handled by or under the supervision of Norman C. Rasmussen.
12. Byproduct material wastes may be processed and stored only at Lovell's Island, Boston, Massachusetts; Greater Brewster Island, Boston, Massachusetts; or Outer Brewster Island, Boston, Massachusetts.
13. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation".
14. A curie of Iridium 192 is defined as that quantity of activity which presents a radiation intensity of 0.55 roentgen per hour at a distance of one meter.
15. Written administrative instructions covering radiological protection, control, and security of byproduct material shall be supplied to each individual using or having responsibility for use of such material.

(see page 2)

For the U. S. Atomic Energy Commission

Date April 21, 1958

**PROPOSED**

by PROPOSED  
Division of Licensing and Regulation  
Washington 25, D. C.

*Lawrence R. 7/58*

U. S. ATOMIC ENERGY COMMISSION  
BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

PROPOSEDLicense Number 20-3541-1D60

CONTINUED:

## CONDITIONS

16. Licensed material to be handled, used, and disposed of in accordance with application dated December 19, 1957, and subsequent supporting information and procedures submitted by the New England Tank Cleaning Company.
17. At least 10 days prior to each disposal event the licensee shall notify the Atomic Energy Commission of the ownership and description of vessel used for sea disposal, proposed date for disposal, total number of containers (barrels, etc.), the total activity in millicuries, and the most hazardous radioisotope(s) contained in each container.
18. The licensee shall comply with the following conditions for transportation of licensed material outside of a restricted area:
- Every motor vehicle transporting radioactive material with a quantity greater than 500 millicuries must be marked or placarded "Caution - Radioactive Material" on each side and the rear with the placard or lettering not less than three inches high on a contrasting background.
- If material is to be temporarily stored while en-route, the storage site or area shall be appropriately posted in accordance with 10-CFR-20 and adequately secured against unauthorized entry by continual surveillance or locked to make area inaccessible. Such temporary storage shall not exceed a 24 hour period.
19. Ultimate disposal of byproduct material shall be confined to an area bounded by lines intersecting the following corner points:  $65^{\circ} 40' - 65^{\circ} 26'$ , longitude; and  $41^{\circ} 28' - 41^{\circ} 38'$ , latitude.

For the U. S. Atomic Energy Commission

Date April 21, 1958PROPOSEDby PROPOSEDDivision of Licensing and Regulation  
Washington 25, D. C.*Green/RJH*

# NEW ENGLAND TANK CLEANING CO.

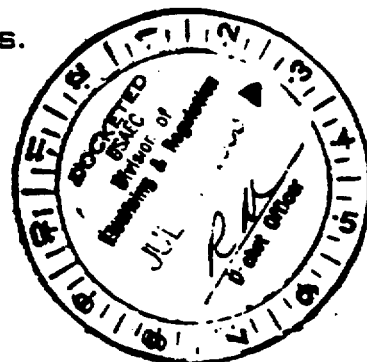
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SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

29 May 1958

Mr. James W. Hitch, Asst. Chief  
Isotopes Branch  
Division of Licensing and Regulation  
U. S. Atomic Energy Commission  
1717 H. Street N. W.  
Washington 25, D. C.



Dear Mr. Hitch:

This is to confirm our telephone conversation of May 28, 1958. I wish to apologize for the confusion concerning the third island for Mr. Denault had not informed me of his telephone conversation with you.

The situation on the islands now is that Lovell's Island has recently been awarded to the State of Massachusetts. If the state fails to exercise its option to use it, ownership would revert back to the New England Tank Cleaning Company. Thus this island no longer seems to be a reasonable possibility. After seeing the facilities on Great Brewster it was decided that they were extremely limited; therefore, Outer Brewster was investigated. Although I have not seen this island, Mr. Denault, Sr. informs me that it has facilities similar to those on Lovell's Island but of more recent vintage. The island is more remote and less accessible than Lovell's as you know from your visit. Its docking facilities are very poor and some adequate method of landing would have to be worked out. The New England Tank Cleaning Company is prepared to undertake this problem if given assurances that its proposal is acceptable to the A. E. C.

The containers to which you referred were to be used in the shipping from the island to final disposal. We too would escort this shipment. If however you feel this is not adequate we will of course be willing to comply with any specifications you recommend. The main problem it seems to me is that the A. E. C. is very reluctant to make recommendations. Thus one does not know what the A. E. C. expects. We feel strongly that we would want to do this job correctly and safely and in the interest of doing so would comply with all regulations. Since these regulations either are not clearly defined or do not exist it makes it rather difficult. For this reason our application is of necessity somewhat general, essentially saying that we do understand radiation and how to handle it safely and we are also aware of the I. C. C. regulations that exist concerning radioactive shipments as well as those that appeared in the Federal Register.

ITEM # 17

(2)

*By mail to the Commission 7/22/58*

*1/11*

I have talked to Mr. Denault about our conversation. His position is essentially this: He was encouraged by a number of people including some fairly reasonable members of the A. F. C. to apply for a license and go into this business. He was given every reason to believe that the A. F. C. would look favorably on such an application. Your initial prompt action on our application and your visit here gave us the impression that all was in order except for a few minor points which we tried to resolve in subsequent correspondence. After your visit here in February however, the application seems to have been delayed for reasons that have not been made clear to us. Even in our telephone conversation the reasons given to me were rather vague. You told us that the Coast Guard in Washington is worried about this problem. Yet we contacted the Coast Guard in Boston and they showed no particular interest in our problem and feel that this problem does not concern them. We both realize of course that this is due to poor liaison in the Coast Guard but it cannot help but frustrate a man who has invested money and is trying to start a business.

I told Mr. Denault your suggestion of a limited license. He feels (as I do) that if this is to be a profitable business he must be able to handle any reasonable job that arises. The type of restriction you mentioned limits the business so that the chance that it would be profitable is rather remote.

I have suggested to Mr. Denault that he wait 10 days until he hears from you before taking any further action. I do not know whether he will follow this suggestion or not. As you know he is rather annoyed at the delays he has encountered.

I sincerely hope this problem will be quickly solved without further difficulty.

Yours truly,

*Norman C. Rasmussen*

Norman C. Rasmussen

NCR:at

## Office Memorandum • UNITED STATES GOVERNMENT

TO : Isotopes Branch Files

DATE: June 11, 1958

FROM : James R. Mason, Chief  
Isotopes BranchSUBJECT: CALL OF JUNE 6, 1958, TO MR. NORMAN C. RASMAUSSEN, NEW ENGLAND TANK  
CLEANING COMPANY

SYMBOL: DLR/IB:RLH

A phone call was made to Mr. Rasmussen regarding the following recent developments on applications covering waste disposal of radioisotopes in the ocean and in particular their application. The following items were discussed in great detail to insure that Mr. Rasmussen understood the position of the AEC in respect to their application:

1. It was pointed out to Mr. Rasmussen that the AEC and the U. S. Coast Guard have recently met to discuss mutual problems involved in the ocean disposal of radioactive waste. It was pointed out to Mr. Rasmussen that the U. S. Coast Guard is responsible for all water transportation on U. S. boats as well as when storage or transportation on contiguous areas such as docks and similar areas. The jurisdiction of the U. S. Coast Guard and their requirements is that the temporary storage and transportation to the disposal location must be in accordance with ICC Regulations and the containers must meet ICC Specifications or have a Bureau of Explosives permit number. In addition to following the ICC Regulations, the Coast Guard has additional regulations regarding the storage of containers while en route as well as the security of material while it is under their jurisdiction such as storage on docks.
2. It was pointed out that we had several telephone discussions with Mr. Campbell of the ICC and are presently planning a visit with representatives from the ICC and representatives from the Bureau of Explosives. However, a definite date has not been established. The ICC Regulations were discussed in great length with Mr. Rasmussen and it certainly appears that he is familiar with all aspects of ICC Regulations as well as the state regulations on the transportation of radioactive material. The state of Massachusetts has adopted ICC Regulations for Intra-State transportation of radioactive materials, and hence, should be no problem from their standpoint. These regulations were discussed in great detail and our problems with respect to the ICC Regulations.

ITEM # 18

②

A/18



June 11, 1958

3. A lengthy discussion regarding additional information which we will need when Denault, Sr. or Denault, Jr. takes over the program as the individual user with out the program being under the protective wing of Mr. Rasmussen. It was pointed out to Mr. Rasmussen that a more detailed formal set of radiological protection procedures will have to be submitted for evaluation. Also, that another visit will have to be made to the New England Tank Cleaning Company and their facility for processing radioactive waste. The discussion also requested sufficient details on the exact method of processing and precautions which will be taken during processing. Mr. Rasmussen agreed that these will be submitted if and when the program is not under his direct supervision.

Mr. Rasmussen was informed that we have several other applications for waste disposal licenses and that all of these applications are being held pending until after our meeting with the ICC and the Bureau of Explosives. It was pointed out that we have other additional internal items regarding these applications which should be straightened out within the near future. Mr. Rasmussen was informed that we will again call him within 10 days regarding the present status of their application. All aspects of the various problems connected with a license covering the disposal of radioactive wastes were discussed. A definite result of the conversation was that Mr. Rasmussen appreciated our problems and is cognizant of the fact that we are expediting his application as well as others in a business like manner. In fact Mr. Rasmussen was very cooperative in this discussion and will convey his discussion with me to Mr. Denault, Sr.

File # 1883

**NEW ENGLAND TANK CLEANING CO.**

SAND BLASTING - VINYL PLASTIC LININGS  
 STEAM CLEANING - WATERPROOFING  
 GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

22 June 1958

Mr. James Mason, Chief  
 Isotope Extension  
 Division of Licensing and Regulation  
 U.S. Atomic Energy Commission  
 171 H Street  
 Washington 25 D.C.



Dear Mr. Mason,

In reply to your telephone conversation with Dr. Karpman we wish to make the following amendments to our application for a waste disposal license.

The packaging operation for sea disposal shall be completed without opening the waste packages received. One or more packages depending on size and activity, will be imbedded in a concrete container approved by the Bureau of Explosives to assure the specific gravity criteria for sea disposal. Under the present license none of the waste packages received shall be opened and repackaged by the New England Tank Co.

In order to expedite our application we have decided to use Great Brewster Island as the storage facility. This is as Island Sr. Hitch inspected while he was here. The principal storage area on this island consists of three underground rooms, each about 20' x 20'. These rooms have heavy concrete walls about one foot thick and are under 10-20' of earth. The entrance is through heavy steel doors which can and will be kept secured. Hot sources would have to be stored in either of the two rooms which do not contain the access doors, since these doors do not provide adequate shielding. One should be able to limit the minimum distance of approach to about ten feet of earth plus one foot of concrete. Conservatively, this would give an attenuation of about  $e^{-30}$  for 1 Mev gamma radiation. Since the radiation in the room must be kept low enough to permit access by company personnel, this would surely be enough shielding to protect any unauthorized persons who should come into this area.

We understand that as the company gains experience in this type of operation that amendments and changes in the license can be made with the approval of the A.E.C.

Yours truly,  
  
 E.A. Demait, Jr.  
 President

ITEM # 19 ①

Ray L. Herrinbeq  
July 29, 1958  
8279

TELEPHONE CALL FROM: Mr. Eliot Denault, Sr.  
New England Tank Cleaning Company  
Cambridge 41, Massachusetts

Call was received from Mr. Denault regarding their application for license covering the disposal of radioisotopes in the ocean. It was explained to Mr. Denault that we are still having internal matters to clarify prior to publishing his proposed license in the Federal Register. Mr. Denault appeared concerned as it appears we have had internal matters to clarify for the past 6 months and he still has not received his license. It was pointed out to Mr. Denault that I am anticipating publication of his proposed license in the Federal Register by the 15th of August if all goes well and if there is no hold up as far as getting the necessary concurrences in the AEC. It was also pointed out to Mr. Denault that we will call him next Tuesday to review the terms and conditions of his license with him in order that he will fully understand all aspects of his license.

ITEM # 20

(V)

|           |     |  |  |  |
|-----------|-----|--|--|--|
| OFFICE ▶  |     |  |  |  |
| SURNAME ▶ | RJA |  |  |  |
| DATE ▶    |     |  |  |  |

Ray L. Herwin:bq  
August 5, 1958  
8279

TELEPHONE CALL TO: Mr. Eliot Denault, Sr.  
New England Tank Cleaning Co.  
Cambridge 41, Massachusetts

Phone call was made to Mr. Denault to discuss the terms and conditions of his license in order that he may fully understand each and every aspect of his license. The terms and conditions of the license were thoroughly discussed with Mr. Denault and he stated that the license is acceptable from his standpoint and that if he has any question upon receipt of the license he will call us immediately. He stated that he is at least happy to see that we are taking some affirmative action regarding his application as he feels it has been unnecessarily delayed regarding internal AEC matters which should have been straightened out several months ago. Mr. Denault was informed that we are still trying to have his proposed license submitted to the Federal Register by the 15th of August and he will be notified if there is a delay.

Mr. Denault again reiterated that the terms and conditions of the license were acceptable as far as he was concerned.

ITEM # 21

|           |  |  |  |  |  |
|-----------|--|--|--|--|--|
| OFFICE ▶  |  |  |  |  |  |
| SURNAME ▶ |  |  |  |  |  |
| DATE ▶    |  |  |  |  |  |

FORM AEC-818 (Rev. 8-5)

U. S. GOVERNMENT PRINTING OFFICE 16-52781-8

CLERK  
Booklet No. 27-9

AUG 20 1958

Honorable Fortier Purcell  
Governor of Massachusetts  
Boston, Massachusetts

Dear Governor Purcell:

Attached is a notice which has been submitted to the Federal Register for filing and publication.

This concerns the proposed issuance of a byproduct and sewage material license to New England Tank Cleaning Company.

You will be notified when final action is taken on this application for a license.

Sincerely yours,

Thor S. Pries  
Acting Director  
Division of Licensing and Regulation

Attachments:  
As stated above

cc w/encl.:

Dr. Samuel B. Kirkwood, Dept. of Public Health, Boston  
Mr. Ernest A. Johnson, Dept. of Labor and Industries, Boston  
Mr. Raymond L. Rigney, Coordinator of Atomic Development Comm.  
on Atomic Energy, Boston

cc: Cong. Communications  
G. W. Morgan, D.R., w/encl.

ITEM # 222

(13)

|           |                      |             |      |
|-----------|----------------------|-------------|------|
| OFFICE ▶  | DIB                  | OCB         |      |
| SURNAME ▶ | DAN/TH<br>L. Johnson | G. Charnoff | 8/19 |
| DATE ▶    | 8/19/58              | 8/20        |      |

AUG 20 1958

DLR: DAN  
Docket No. 27-8

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. E. W. Densalt, Jr., President

Gentlemen:

Attached is a notice of proposed issuance of a byproduct and source material licence which has been submitted for filing and publication in the Federal Register.

Very truly yours,

Eber R. Price  
Acting Director  
Division of Licensing and Regulation

Attachment:  
As stated above

(Notice)  
Memo  
Appendix "A" - dtd Aug. 1958

|           |               |            |             |          |  |  |
|-----------|---------------|------------|-------------|----------|--|--|
| OFFICE ▶  | DLR           | DLR        | OGC         | DLR      |  |  |
| SURNAME ▶ | DAN/rn<br>ERR | L. Johnson | G. Charnoff | H. Price |  |  |
| DATE ▶    | 8/19/58       | 8/20       | 8/20        | 8/20     |  |  |

Kathleen H. Shea, Attorney  
Office of the General Counsel

AUG 20 1958

Lyall Johnson, Chief, Licensing Branch  
Division of Licensing and Regulation

FEDERAL REGISTER NOTICE

Attached are a signed original and eight copies of Federal Register notice, as follows:

"DOCKET NO. 27-8, NEW ENGLAND TANK CLEANING COMPANY, NOTICE OF PROPOSED ISSUANCE OF A BYPRODUCT MATERIAL LICENSE TO PROVIDE RADIOACTIVE WASTE DISPOSAL SERVICE"

Also attached, for your signature, are the required number of copies of letter of transmittal to the Federal Register, with additional copies for internal distribution.

Attachments:  
As noted above

|           |                              |                               |                          |  |  |  |
|-----------|------------------------------|-------------------------------|--------------------------|--|--|--|
| OFFICE ▶  | DLE                          | DLE                           | DLE                      |  |  |  |
| SURNAME ▶ | <i>DM</i><br>DANUSSBAUMER/rh | <i>L. Rogers</i><br>L. ROGERS | <i>EJK</i><br>L. JOHNSON |  |  |  |
| DATE ▶    | 8/14/58                      |                               | <i>8/20</i>              |  |  |  |

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF PROPOSED ISSUANCE OF A BYPRODUCT MATERIAL LICENSE  
TO PROVIDE RADIOACTIVE WASTE DISPOSAL SERVICE

Please take notice that the Atomic Energy Commission proposes to issue a Byproduct Material License to New England Tank Cleaning Company, 135 First Street, Cambridge 41, Massachusetts, substantially in the following form, authorizing the disposal of waste byproduct material in the Atlantic Ocean at a minimum depth of 1000 fathoms unless within fifteen (15) days after filing of this notice with the Federal Register Division a request for a formal hearing is filed with the Commission in the manner prescribed by Title 10, Code of Federal Regulations, Chapter 1, Part 2, "Rules of Practice".

The Atomic Energy Commission has found that:


- (a) The applicant's proposed equipment, facilities, and procedures are adequate to protect health and minimize danger to life or property;
- (b) The applicant is qualified by training and experience to perform the proposed sea waste disposal service for packaged byproduct material in such a manner as to protect health and minimize danger to life or property; and
- (c) The issuance of a Byproduct Material License to New England Tank Cleaning Company will not be inimical to the health and safety of the public.

For further details see (1) the application submitted by the New England Tank Cleaning Company, and amendments thereto; (2) a memorandum prepared by the Division of Licensing and Regulation which summarizes the principal factors considered in reviewing the application for license; and (3) a copy of Appendix A to the license containing a description of container specifications substantially similar to those contained in Title 49, Code of Federal Regulations, Part 78, referred to in Condition 6 of the license; all on file at the Commission's Public Document Room 1717 H Street, N. W., Washington, D. C.



Copies of (2) and (3) above may be obtained at the Commission's Public Document Room or upon request addressed to the Atomic Energy Commission, Washington 25, D. C., Attention: Director, Division of Licensing and Regulation.

FOR THE ATOMIC ENERGY COMMISSION

  
~~Eber R. Price~~ Eber R. Price  
~~Director~~ Acting Director  
Division of Licensing and Regulation

Dated at Germantown, Maryland,  
this 20<sup>th</sup> day of August, 1958.

ANNEX A

BYPRODUCT MATERIAL LICENSE

NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

License No. 20-35411-1  
(H60)

Pursuant to the Atomic Energy Act of 1954, as amended, and Title 10, Code of Federal Regulations, Chapter 1, Part 30, "Licensing of Byproduct Material", and in reliance upon statements and representations heretofore made by the applicant, a license is hereby issued to New England Tank Cleaning Company, 135 First Street, Cambridge 41, Massachusetts, to receive, possess, package, and dispose of byproduct material in the Atlantic Ocean.

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 the provisions of Title 10, Code of Federal Regulations, Chapter 1, Part 20, "Standards for Protection Against Radiation", and all other applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to the following conditions:

1. The licensee shall not possess more than 1000 curies of byproduct material at any one time.
2. Byproduct material shall be received, possessed, packaged, and disposed of by or under the direct supervision of Norman C. Rasmussen.
3. The licensee shall receive, package, possess, and dispose of the byproduct material in accordance with the procedures described in the licensee's application dated December 19, 1957, and attachments thereto; and the licensee's letters dated January 17, 1958, February 4, 1958, February 27, 1958, April 1, 1958, and June 20, 1958; except as provided otherwise in this license.
4. A copy of "General Instructions for Personnel Handling Radioactive Substances", "Emergency Procedures", "General Instructions for Vehicular Accidents", "Personal Decontamination Procedures", and "Special Instructions for Final Packaging Operations", as described in the licensee's

application and letters specified in Condition 3 of this license, shall be supplied to each employee of the licensee involved in the receipt, packaging, and disposal of byproduct material.

5. Byproduct material received from customers shall be prepackaged in containers which shall not be opened at any time by the New England Tank Cleaning Company, and which shall meet the requirements of Condition 6 of this license. The licensee shall instruct each customer to package the waste material in such a manner as to assure the absence of any significant voids.
6. Intrastate transportation of AEC-licensed material to the location designated in Condition 7 shall be in accordance with the following requirements except as specifically approved by the Atomic Energy Commission:

A. Outside Shipping Containers

- (1) The containers shall meet any one of the following specifications described in Appendix A attached hereto:
  - a. 15A, 15B, 12B, 6A, 6B, 6C, 17C, 17H, 19A, or 19B for the containment of radioactivity in amounts not in excess of 2.0 curies; or
  - b. Specification 55 for containment of solid cobalt 60, cesium 137, iridium 192, or gold 198 in amounts not in excess of 300 curies.
- (2) There shall be no radioactive contamination on any exterior surface of the container in excess of 500 d/m/100 sq. cm. alpha and 0.1 mrep/hr beta-gamma radiation.
- (3) The smallest dimension of the container shall not be less than 4 inches.
- (4) The radiation level at any accessible surface of the container shall not exceed 200 mrem/hr.
- (5) At one meter from any point on the radioactive source the radiation level shall not exceed 10 mrem/hr.

- (6) Containers which contain radioactive material emitting only alpha and/or beta radiation shall contain sufficient shielding to prevent the escape of primary corpuscular radiation to the exterior surface and to reduce the secondary radiation at the surface of the container to at least 10 mrem/24 hours at any time during transportation.

B. Inside Containers

- (1) Solid and gaseous radioactive materials shall be packed in suitable inside containers designed to prevent rupture and leakage under conditions incident to transportation.
- (2) Liquid radioactive materials must be packed in sealed glass, earthenware, or other suitable containers. The container must be surrounded on all sides by an absorbent material sufficient to absorb the entire liquid contents and be of such nature that its efficiency will not be impaired by chemical reactions with the contents. Where shielding is required the absorbent material must be placed within the shield. If the inside container meets the Specification 2R in Appendix A the absorbent material is not required.
- (3) Materials containing radioisotopes of plutonium, americium, polonium, or curium, or the isotope strontium 90, in quantities in excess of 100 microcuries, must be packed in containers which meet Specification 2R in Appendix A.

C. Shielding

Inside containers must be completely surrounded with sufficient shielding to meet the requirements of subparagraphs A (4), A (5), and A (6) of this condition. The shield must be so designed that it will not open or break under normal conditions incident to transportation.

D. Labeling

Each outside container label required under Section 20.203 (f)(1) of 10 CFR 20 shall bear the following information:

- (1) Total activity in millicuries, or in the case of source and special nuclear material, the total weight;
- (2) principal radioisotope;
- (3) radiation level at the surface of the container and at one meter from the source; and
- (4) the name and address of the licensee.

E. Each vehicle in which licensed material is transported shall be marked or placarded on each side and the rear with lettering at least 3 inches high as follows: CAUTION - RADIOACTIVE MATERIAL.

F. Accidents

In the event of an accident involving any vehicle transporting licensed material, immediate steps shall be taken to prevent radiation exposure of persons and to control contamination.

G. Exemptions

Specific approval must be obtained from the Atomic Energy Commission for modification of, or exemption from, the requirements of this license condition. Requests for such approval should be directed to the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, and should contain sufficient information to support such a request.

7. The licensee shall store and package byproduct material for sea disposal at Great Brewster Island, Boston Massachusetts.
8. The licensee shall dispose of byproduct material in an area bounded by the parallels of Latitude  $41^{\circ} 38'$  N. and  $41^{\circ} 28'$  N. and by the meridians of Longitude  $65^{\circ} 28'$  W. and  $65^{\circ} 45'$  W. at a minimum depth of 1000 fathoms.
9. The licensee shall notify the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, at least 20 days prior to each disposal, by letter deposited in the United States mail properly stamped and addressed. This notification shall contain the following information: the proposed date for disposal, the total

number of containers, the total activity in millicuries, and the most hazardous radioisotope contained in each container.

10. A curie of Iridium 192 is defined as that quantity of activity which presents a radiation intensity of 0.55 roentgen per hour at a distance of one meter.

This license shall be effective on the date issued and shall expire on August 31, 1960.

FOR THE ATOMIC ENERGY COMMISSION

J. R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Date of Issuance:

UNITED STATES ATOMIC ENERGY COMMISSION

MEMORANDUM BY THE

DIVISION OF LICENSING AND REGULATION

IN THE MATTER OF

NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

By application dated December 19, 1957, and amendments thereto, New England Tank Cleaning Company, 135 First Street, Cambridge 41, Massachusetts, requested a Byproduct Material License to receive, possess, package, and dispose of byproduct material wastes in the Atlantic Ocean.

Based upon the considerations set forth below we believe that the New England Tank Cleaning Company's waste disposal operations will be performed in compliance with the provisions of 10 CFR 20, 10 CFR 30, and other applicable Commission regulations and can be carried out without undue risk to the health and safety of the public or the applicant.

Experience of Personnel

The receipt, possession, packaging, and disposal operations will be carried out under the direct supervision of Mr. Norman C. Rasmussen. Mr. Rasmussen has a Ph.D. in nuclear engineering from the Massachusetts Institute of Technology, as well as 6 years of experience in the handling of curie quantities of radioisotopes at the Radioactivity Center and Cyclotron Group at the Massachusetts Institute of Technology. Mr. Joel E. Bulkley will serve as a consultant for the program. Mr. Bulkley has 11 years of experience in the handling of curie quantities of radioisotopes at the Radioactivity Center and Cyclotron Group at M.I.T. The qualifications of Mr. Rasmussen and Mr. Bulkley appear adequate to assure that the material will be handled and used in such a manner as to protect the health and safety of the public and minimize danger to life or property.

Equipment, Facilities, and Procedures

Adequate storage facilities are available for holding the wastes prior to final disposal. The applicant will store and package byproduct material wastes on Great Brewster Island, Boston Harbor, Massachusetts. This uninhabited island is honeycombed with underground concrete storage vaults.

The waste material will be transferred to the island without undue delay upon receipt of such material by the applicant.

New England Tank Cleaning Company possesses trucks; loading, unloading, and remote handling equipment; adequate radiation safety equipment; and other items necessary to the carrying out of the proposed program. The applicant has indicated that transportation will be in accordance with the regulations of the Interstate Commerce Commission, United States Coast Guard, and/or other interested agencies. A copy of the radiation protection procedures containing instructions to personnel on proper radiation safety precautions will be given to personnel involved in the waste disposal operations.

The facilities, equipment, and procedures described by the applicant appear adequate to assure that the disposal operations will be conducted in compliance with the Commission's regulations and the conditions of the proposed license.

#### Containers and Disposal Site

The byproduct material wastes will be prepackaged by the applicant's customers. The applicant will encase the customers' containers in concrete to obtain a minimum density of 10 pounds per gallon to assure sinking.

Disposal will be at a minimum depth of 1000 fathoms at the site described in Condition 8 of the proposed license which site is beyond the continental shelf. At least 20 days prior to each disposal the Atomic Energy Commission will be notified of the proposed date for disposal, the total number of containers, the total activity in millicuries, and the most hazardous radioisotope in each container.


The containers and disposal location will meet the recommendations of the National Committee on Radiation Protection contained in the National Bureau of Standards Handbook No. 58, "Radioactive Waste Disposal in the Ocean."

The sea disposal of radioactive wastes packaged in accordance with the requirements of the proposed license at a depth of 1000 fathoms is considered a safe method of radioactive waste disposal. These amounts of radioactive material, if released into sea water and diluted with the available dilution media at the specified depth, are highly unlikely to exceed, and in all

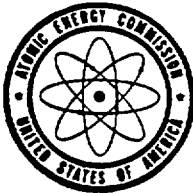


probability will be far less than, the permissible concentrations for drinking water in unrestricted areas as specified in 10 CFR 20, "Standards for Protection Against Radiation".

FOR THE ATOMIC ENERGY COMMISSION

  
~~Eber R. Price~~ Eber R. Price  
~~Director~~ Acting Director  
Division of Licensing and Regulation

Dated at Germantown, Maryland,  
this 20<sup>th</sup> day of August, 1958.



UNITED STATES  
ATOMIC ENERGY COMMISSION

WASHINGTON 25, D. C.

AUG 25 1958

Mr. Bernard R. Kennedy, Director  
The Federal Register  
National Archives & Record Service  
Department of Archives  
Register Section  
Washington 25, D. C.

Dear Mr. Kennedy:

Attached for publication in the Federal Register as a Notice are an original and three certified copies of a document entitled:

"DOCKET NO. 27-8, NEW ENGLAND TANK CLEANING COMPANY, NOTICE OF PROPOSED ISSUANCE OF A BYPRODUCT MATERIAL LICENSE TO PROVIDE RADIOACTIVE WASTE DISPOSAL SERVICE"

Publication of the above document at the earliest possible date would be appreciated.

Sincerely yours,

Kathleen H. Shea, Attorney  
Office of the General Counsel

Enclosures:  
Original & 3 cert. cys.

cc: ~~Docket Clerk (CA) (w/o attachment)~~  
Wm. Hughes (IS) (w/cy of attachment)  
W. B. McCool (GMS) (w/cy of attachment)  
Legal Files (w/cy of attachment)  
Law Library (w/cy of attachment) Mrs. Losee  
OGC Reading File (w/cy of attachment)  
OGC Chronological File (w/o attachment)

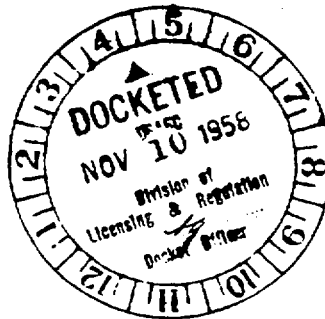
ITEM # 23

100

Raymond L. Herwin:bq  
September 30, 1958  
27-8

TELEPHONE CALL FROM: Mr. E. W. Denault  
New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Mr. Denault called regarding the status of his application for a license covering the sea disposal of radioisotopes. Mr. Denault was informed that our office has forwarded to RSB, OGC, and for Price's signature the necessary paper work and his license should be forthcoming in the very near future. Mr. Denault stated that it is about time that he received his license and that he would appreciate anything that we could do to expedite the concurrences of OGC and etc. Mr. Denault was informed that at the present time it is really out of our hands in that the necessary routing takes time. Mr. Denault felt satisfied in that at least the paper work was over with and all that is left to do is concurrences with other branches and for Price to sign the packet.



ITEM # 24

*(Handwritten mark)*  
A. L. J.



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

*Docket No. 27-8*

OCT 5 1958

Mr. Bernard R. Kennedy, Director  
The Federal Register  
National Archives & Record Service  
Department of Archives  
Register Section  
Washington 25, D. C.

Dear Mr. Kennedy:

Attached for publication in the Federal Register as a Notice are an original and three certified copies of a document entitled:

"DOCKET NO. 27-8, NEW ENGLAND TANK CLEANING COMPANY,  
NOTICE OF ISSUANCE OF BYPRODUCT MATERIAL LICENSE TO  
PROVIDE RADIOACTIVE WASTE DISPOSAL SERVICE"

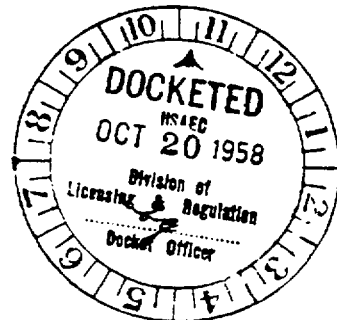
Publication of the above document at the earliest possible date would be appreciated.

Sincerely yours,

Attorney  
Office of the General Counsel

Enclosures:  
Original & 3 cert. cys.

cc: → Docket Clerk (CA) (w/o attachment)  
Wm. Hughes (IS) (w/cy of attachment)  
W. B. McCool (GMS) (w/cy of attachment)  
Legal Files (w/cy of attachment)  
Law Library (w/cy of attachment) Mrs. Losee  
OGC Reading File (w/cy of attachment)  
OGC Chronological File (w/o attachment)



ITEM # 25

*P. 10*

OCT 9 1958

I&R:IB:RLH  
(Docket No. 27-8)

Honorable Foster Furcolo  
Governor of Massachusetts  
Boston, Massachusetts

Dear Governor Furcolo:

This is to inform you that the Commission has issued a Byproduct Material License to New England Tank Cleaning Company, 135 First Street, Cambridge hl, Massachusetts to provide a radioactive disposal service. A copy of the notice, which includes the license, sent to the Federal Register for filing and publication is enclosed.

Copies of this letter and attachment are being sent to Dr. Roy F. Fennster, Commissioner of Public Health; Mr. Ernest A. Johnson, Commissioner, Department of Labor and Industries; and Mr. Raymond I. Rigney, Coordinator of Atomic Development Commission on Atomic Energy.

Sincerely yours,

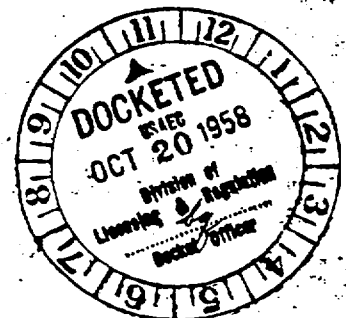
(Signed) H. L. Price

H. L. Price  
Director  
Division of Licensing and Regulation

Attachment:  
As stated above

bcc: Congressional Communications  
G. W. Morgan, I&R, w/encl.

ITEM # 26



|           |                         |                        |                          |                          |                        |                     |
|-----------|-------------------------|------------------------|--------------------------|--------------------------|------------------------|---------------------|
| OFFICE ▶  | I&R:IB<br><i>Hervin</i> | I&R:IB<br><i>Mason</i> | I&R:RSB<br><i>Rogers</i> | I&R:IB<br><i>Johnson</i> | OCC<br><i>Charnoff</i> | I&R<br><i>HLPri</i> |
| SURNAME ▶ | Hervin:bq               | Mason                  | Rogers                   | Johnson                  | Charnoff               | HLPri               |
| DATE ▶    |                         |                        |                          | 10/16/58                 | 10/18                  | 10/18/58            |

*n/10*

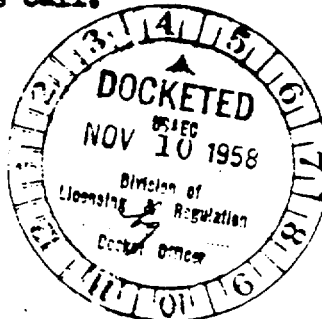
Raymond L. Herwin:bq  
October 9, 1958  
27-8

TELEPHONE CALL FROM: Mr. E. W. Denault  
New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Mr. Denault called regarding the status of his application. Mr. Denault was again informed that it is taking additional time to get the necessary concurrences from the necessary branches then was originally planned for. Mr. Denault seemed unhappy with this answer and stated that he was going to call Mr. Price to find out exactly what the hold-up is. Mr. Denault was informed that this certainly is his prerogative if he desires to call Mr. Price but that there have been various other applications and incidents which have taken up the time of OGC and RSB. Mr. Denault stated that he did not care about other applications or incidents in that he felt that it is about time that the Division of Licensing and Regulation either got aboard with his license or just give him a plain old fashion no regarding the license. Mr. Denault then stated that he was going to go ahead and call Mr. Price regarding this matter and appreciated the cooperation which he has received from our office but feels that he would just as soon as have the other offices act of his application as fast as we have.

Information regarding this phone call was forwarded to Mr. Rod Mason and phone calls were immediately instigated in regard to where the application was sitting. The application was on Mr. Charnoff's desk and he immediately concurred and brought the application to Mr. Price's office for his signature. Mr. Denault called Mr. Price who was not available at the time of the call. The call was returned to Mr. Denault and that time Mr. Denault was not at his office to receive the phone call from Mr. Price.

A collect call was made by Mr. R. L. Herwin to Mr. Denault to inform him that License No. 20-3541-1 has been issued to date and that he should receive a copy of his license next Monday morning. He was informed that the license was essentially the same as previously published in the Federal Register. Mr. Denault appreciated the phone call and informed me that it was not necessary for Mr. Price to return his phone call.

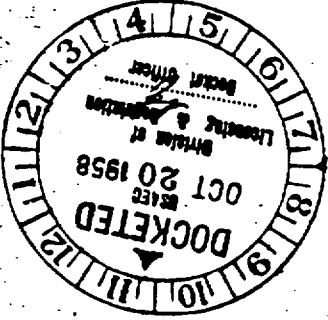


ITEM # 27

*Di*

|         |             |         |         |         |         |         |
|---------|-------------|---------|---------|---------|---------|---------|
| DATE    | 10/8/58     | 10/8    | 10/8    | 10/8    | 10/8    | 10/8    |
| SURNAME | WELLS, D.B. | ROBERTS | ROBERTS | ROBERTS | ROBERTS | ROBERTS |
| OFFICE  | I&R, IB     | I&R, IB | I&R, IB | I&R, IB | I&R, IB | I&R, IB |

ITEM # 28



License No. 20-3541-1

Very truly yours,  
 and  
 dispatched  
 H. L. Price  
 Director  
 Division of Licensing and Regulation

If there are any questions concerning this license, please contact us.  
 Transmitted herewith is a byproduct material license No. 20-3541-1 authorizing the disposal of byproduct material in the Atlantic Ocean.

Gentlemen:  
 Attention: E. H. Donnelly, Sr.  
 E. H. Donnelly, Jr.  
 New England Tank Cleaning Company  
 135 First Street  
 Cambridge 41, Massachusetts

OCT 9 1958

I&R, IB, KIN (Docket No. 27-8)

Book 174, 27-8

TELEPHONE

# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

**DUPLICATED**  
FOR DIV. OF INSP.

October 29, 1958

Mr. J. E. Mason, Chief  
Isotopes Branch  
Division of Licensing and Regulation  
U. S. Atomic Energy Commission  
Washington, 25, D.C.

Dear Mr. Mason:

We would like to request a minor amendment to our License No. 20-3541-1 (160)  
We would like to add to item #2 of the license, the name of Joel B. Bulkley  
as a qualified supervisor for the receiving, packaging and disposing of  
radioactive wastes.

Mr. Bulkley's qualifications have already been described to you in our  
original application.

Very truly yours,

NEW ENGLAND TANK CLEANING CO.

*E. W. Denault, Jr.*  
Eliot W. Denault, Jr.  
President

END/K

13974

ITEM # 29

Q

A/nc



NEW ENGLAND TANK CLEANING CO.

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

November 4, 1958

Mr. J. E. Mason, Chief  
Isotopes Branch  
Div. of Licensing & Regulations  
U. S. Atomic Energy Commission  
Washington, 25, D. C.

Dear Mr. Mason:

This letter is concerned with a proposed amendment to the New England Tank Cleaning Company--A.E.C. License #20-3541-1 (160) for the disposal of radioactive waste at sea.

*11/5/58  
see memo  
below*

The New England Tank Cleaning Company has recently purchased a building in the warehouse district of East Boston, which we would like to have approved for the storage of radioactive materials. The building--formerly owned by the Merchants Wool Scouring Company--is of brick and frame construction, contains about 65,000 sq. ft. of floor area, and is fully equipped with a fire sprinkler system. The building is one of several buildings in the National Dock Yard which is a fenced-off area having guard and night-watchman service during the non-working hours.

We feel this building offers much better security than the island previously accepted on our license. It is in a non-residential section and well secured against children and other unauthorized personnel.

We are anxious to start business, and would appreciate speedy action on this proposed amendment.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

Eliot W. Denault, Jr.  
President

ITEM # 30

*11/5/58*

5848

TELEPHONE TROWBRIDGE 6-7300

# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

December 3, 1958

Mr. J. R. Mason, Chief  
Isotopes Branch  
Division of Licensing & Regulations  
U. S. Atomic Energy Commission  
Washington, 25, D.C.

Dear Mr. Mason:

Thank you very much for your telephone call. After receiving this call I talked to the State Department of Health and also Boston Fire Chief Driscoll. Both of these men were very pleased and thanked me for calling, and said they had no objections.

Will you please issue permit for the use of the Merchants Wool Scouring Company, located inside the National Dock Yard in East Boston, Mass.

Thank you once again.

Sincerely,

NEW ENGLAND TANK CLEANING COMPANY  
*Eliot W. Donault*  
Eliot W. Donault  
Treasurer

ITEM # 31

D.

DOCKET NO. 278

## Office Memorandum • UNITED STATES GOVERNMENT

TO : File

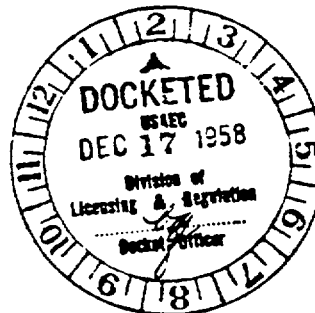
DATE: December 9, 1958

FROM : James R. Mason

SUBJECT: NEW ENGLAND TANK COMPANY - DOCKET NO. 27-8

New England Tank Company, by letter of November 4, 1958, requested an amendment to their license to provide provide processing and storage of waste materials in a building formerly occupied by the Merchants Wool Scouring Company, National Dock Yards, East Boston, Massachusetts. On November 21, 1958, Donald A. Nussbaumer and James R. Mason visited this building and found it to be in an adequately isolated, fenced and guarded area and protected by an automatic sprinkler system. In Staff Meeting on November 25th Mr. Price indicated that an amendment of this sort could be issued with a thirty-day post publication in the register instead of a fifteen-day pre-notice of intent to issue.

On November 25, 1958, I called Mr. Elliott Denault Sr. and indicated that his proposal was satisfactory from the Commission's standpoint. However, to avoid difficulties which other licensees have had with local authorities, I suggested that he contact Mr. Dallas of the Massachusetts State Health Department and Fire Chief Driscoll of Boston and advise them of his plans. If he would then notify us that they have no objection to his proposed operation in Boston, we could promptly issue an amendment to his license.

ITEM # 32

①

NEW ENGLAND TANK CLEANING CO.

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

6001

December 10, 1958

Mr. J. R. Mason, Chief  
Isotopes Branch  
Division of Licensing & Regulations  
U. S. Atomic Energy Commission  
Washington, 25, D.C.

Dear Mr. Mason:

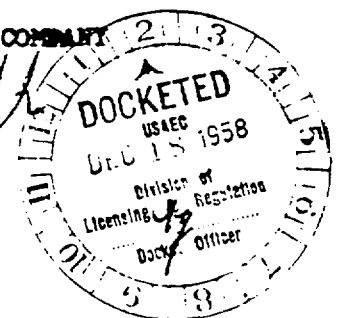
This is to confirm our Night Letter sent you to day.

The New England Tank Cleaning Company requests an amendment to our license #20-3541-1 (160) for the disposal of radioactive materials at sea. We request permission to possess and dispose of source materials-total amount not to exceed fifty pounds, and to possess for purposes of disposal special nuclear material-total amount not to exceed five grams.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

*Eliot W. Denault, Jr.*  
Eliot W. Denault, Jr.  
President



ITEM # 33

① 0/23

DOCKET NO. 27-81

December 11, 1958

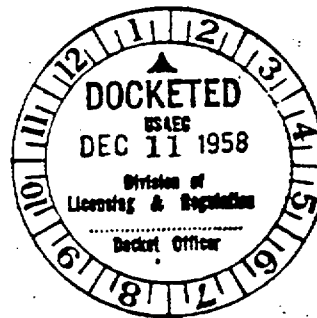
JAMES R. MASON, CHIEF, ISOTOPES BRANCH  
DIVISION OF LICENSING AND REGULATION  
U.S. ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

ROUTINE

NEW ENGLAND TANK CLEANING COMPANY  
ATTENTION: E. W. DENAULT, JR.  
135 FIRST STREET  
CAMBRIDGE 41, MASSACHUSETTS

PLEASE SEND A SIGNED LETTER TO CONFIRM YOUR TELEGRAM OF DECEMBER 11 END

REF L&R:IB:RLH



ITEM # 34

Hervin  
1130A15225

|                 |                         |                        |  |  |  |
|-----------------|-------------------------|------------------------|--|--|--|
| 415<br>OFFICE ▶ | L&R:IB<br><i>Hervin</i> | L&R:IB<br><i>Mason</i> |  |  |  |
| SURNAME ▶       | Hervin:bq               | Mason                  |  |  |  |
| DATE ▶          | 12/11/58                | 12/11/58               |  |  |  |

*Dnk*

1136-14  
27-8

**INCOMING TELEGRAM**

ATOMIC ENERGY COMM.  
TRX UNIT

OE

1958 DEC 11 AM 1 43

WULO09 NL PD AR

CAMBRIDGE MASS DEC 10

5952

MR J R MASON, CHIEF

ISOTOPES BRANCH DIVN OF LICENSING & REGULATIONS

AEC

THE NEW ENGLAND TANK CLEANING CO REQUESTS AN AMENDMENT TO THEIR LICENSE NUMBER 20-3541-1(160) FOR DISPOSAL OF RADIO ACTIVE MATERIALS AT SEA WE REQUEST PERMISSION TO POSSESS AND DISPOSE OF SOURCE MATERIALS TOTAL AMOUNT NOT TO EXCEED 50 POUNDS AND TO POSSESS FOR PURPOSES OF DISPOSAL SPECIAL NUCLEAR MATERIALS TOTAL AMOUNT NOT TO EXCEED 5 GRAMS

E W DENALUT JR

139A

20-3541-1(160) 50 5.

**INCOMING TELEGRAM**



AC RECD WULO09 DP TNX

ITEM # 35

①

nlm

EXHIBIT NO. 278

DEC 11 1958

Gerald Chaitzoff, Attorney  
Office of the General Counsel  
James R. Mason, Chief, Isotopes Branch  
Division of Licensing and Regulation  
FEDERAL REGISTER NOTICE

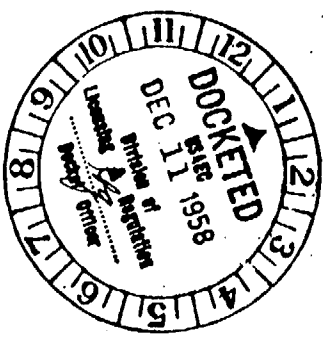
SYMBOL: L&R:IB:EM

Attached are a signed original and eight copies of Federal Register notice, as follows:

•DOCKET NO. 27-8, BEN HIGLAND TANK CLEANING COMPANY,  
NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT  
MATERIAL LICENSE

Also attached, for your signature, are the required number of copies of letter of transmittal to the Federal Register, with additional copies for internal distribution.

Attachments:  
As noted above



ITEM # 36

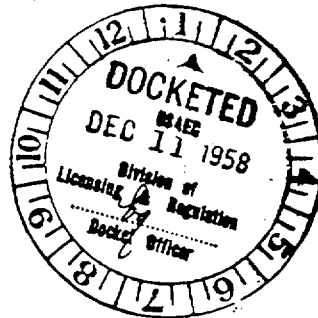
①

| OFFICE ▶   | L&R:IB                   | L&R:IB                | L&R:RSB |
|------------|--------------------------|-----------------------|---------|
| SCHEDULE ▶ | <i>Hevin</i><br>Hevin:dg | <i>Mason</i><br>Mason | Rogers  |
| DATE ▶     | 12/3/58                  | 12/ /58               | 12/ /58 |

DOCKET NO. 27-8

DEC 11 1958

L&R:IB:KLB  
(Docket No. 27-8)



Honorable Foster Furcolo  
Governor of Massachusetts  
Boston, Massachusetts

Dear Governor Furcolo:

This is to inform you that the Commission has issued an amendment to Byproduct Material License No. 20-3541-1 authorizing New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts to use byproduct material under the direct supervision of Norman C. Rasmussen and/or Joel B. Bulkley. A copy of the notice, which includes the amendment, sent to the Federal Register for filing and publication is enclosed.

Copies of this letter and attachment are being sent to Dr. Roy F. Feenster, Commissioner of Public Health; Mr. Ernest A. Johnson, Commissioner, Department of Labor and Industries; and Mr. Raymond I. Rigney, Coordinator of Atomic Development Commission on Atomic Energy.

Sincerely yours,

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Attachment:  
As stated above

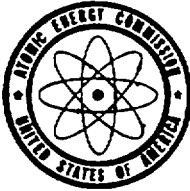
bcc: Congressional Communications  
G. W. Morgan, L&R, w/encl.

ITEM # 37

Ⓟ

|           |                            |                       |                         |                       |  |  |
|-----------|----------------------------|-----------------------|-------------------------|-----------------------|--|--|
| OFFICE ▶  | L&R:IB                     | L&R:IB                | L&R:RSB                 | OGC                   |  |  |
| SUBNAME ▶ | <i>Harvin</i><br>Harvin:bc | <i>Mason</i><br>Mason | <i>DW for</i><br>Rogers | <i>lc</i><br>Charhoff |  |  |
| DATE ▶    | 12/3/58                    | 12/ /58               | 12/10/58                | 12/10/58              |  |  |





DOCKET

278

UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.  
DEC 11 1958

Mr. David C. Eberhart, Director  
The Federal Register  
National Archives and Record Service  
Washington 25, D. C.

Dear Mr. Eberhart:

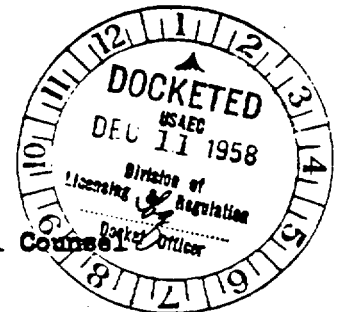
Attached for publication in the Federal Register as a Notice are an original and three certified copies of a document entitled:

"DOCKET NO. 27-8, NEW ENGLAND TANK CLEANING COMPANY, NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT MATERIAL LICENSE"

Publication of the above document at the earliest possible date would be appreciated. It is requested that you advise the Commission of the filing and publication dates of this document by telephoning Code 119, Extension 3446.

Sincerely yours,

Attorney  
Office of the General Counsel



Enclosures:  
Original & 3 cert. cys.

cc: Docket Clerk (CA) (w/o attachment)  
Wm. Hughes (IS) (w/cy of attachment)  
W. B. McCool (GMS) (w/cy of attachment)  
Legal Files (w/cy of attachment)  
Law Library (w/cy of attachment) Mr. Losee  
OGC Reading File (w/cy of attachment)  
OGC Chronological File (w/o attachment)

I&R:IB:KLN  
(Docket No. 27-8)

DEC 11 1958

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

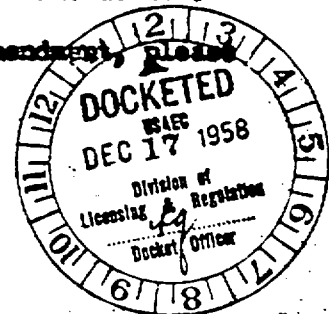
Attention: E. W. Denault, Sr.  
E. W. Denault, Jr.

Gentlemen:

Transmitted herewith is Amendment No. 2 to Byproduct Material License No. 20-3541-1 authorizing the packaging and storage of byproduct material at the New England Tank Cleaning Company's warehouse, National Dock Yard, East Boston, Massachusetts.

If there are any questions concerning this amendment, please contact us.

Sincerely yours,



James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Attachment:  
As stated above

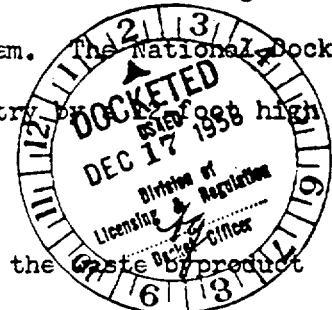
| OFFICE ▶  | I&R:IB                     | I&R:IB                | I&R:RSB                 | OGC                         |  |  |
|-----------|----------------------------|-----------------------|-------------------------|-----------------------------|--|--|
| SURNAME ▶ | <i>Hervin</i><br>Hervin:eg | <i>Mason</i><br>Mason | <i>Rogers</i><br>Rogers | <i>Charnoff</i><br>Charnoff |  |  |
| DATE ▶    | 12/18/58                   | 12/11/58              | <i>274</i>              | <i>274</i>                  |  |  |

UNITED STATES ATOMIC ENERGY COMMISSIONDOCKET NO. 27-8NEW ENGLAND TANK CLEANING COMPANYNOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT MATERIAL LICENSE

Please take notice that the Atomic Energy Commission has issued the following amendment (No. 2) to License No. 20-3541-1 authorizing the New England Tank Cleaning Company as requested in its application for license amendment dated November 4, 1958, to store and package byproduct material for sea disposal in the licensee's warehouse in the National Dock Yard, Lewis Street, East Boston, Massachusetts. Under License No. 20-3541-1, the licensee has been authorized to store and package such material for sea disposal at Great Brewster Island, Boston, Massachusetts. The warehouse is of brick (sides) and frame (roof) construction with concrete and wood flooring. It is fully equipped with a fire sprinkler system. The National Dock Yard area is secured against unauthorized entry by a high fence and a watchman.

It appears that the storage and packaging of the waste byproduct material in accordance with the terms and conditions of License No. 20-3541-1 will be conducted in such a manner as to protect the health and safety of the public and minimize danger to life or property.

In accordance with the Commission's "Rules of Practice" (10 CFR 2) the Commission will direct the holding of a formal hearing on the matter of the issuance of the license amendment upon receipt of a request therefor from the licensee or an intervener within thirty



days after the issuance of the license amendment. For further details, see the application for license amendment submitted by New England Tank Cleaning Company, which is on file at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. A copy of the application may be obtained at the Commission's Public Document Room or upon request addressed to the Atomic Energy Commission, Washington 25, D. C., Attention: Director, Division of Licensing and Regulation.

FOR THE ATOMIC ENERGY COMMISSION

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Dated at Germantown, Maryland  
this 11<sup>th</sup> day of December, 1958.

BUCKET NO. 27-8

DEC 11 1958

L&R:IB:KLB  
(Docket No. 27-8)

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: E. W. Denault, Sr.  
E. W. Denault, Jr.

Gentlemen:

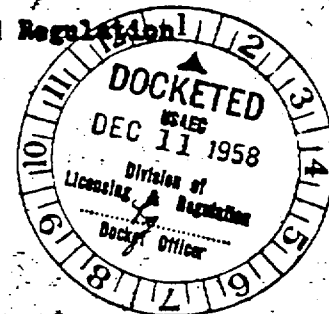
Transmitted herewith is Amendment No. 1 to Byproduct Material License No. 20-3541-1 authorizing the use of byproduct material under the supervision of Norman G. Rasmussen and/or Joel B. Bulkley.

If there are any questions concerning this amendment, please contact us.

Sincerely yours,

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Attachment:  
As stated above



ITEM # 38

|           |                         |                        |                       |                        |  |  |
|-----------|-------------------------|------------------------|-----------------------|------------------------|--|--|
| OFFICE ▶  | L&R:IB<br><i>Harvin</i> | L&R:IB<br><i>Mason</i> | L&R:RSB<br><i>DMR</i> | OCC<br><i>Chaynoff</i> |  |  |
| SURNAME ▶ | Harvin:bc               | Mason                  | Rogers                | Chaynoff               |  |  |
| DATE ▶    | 12/3/58                 | 12/ /58                | 12/10/58              | 12/10/58               |  |  |

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT MATERIAL LICENSE

Please take notice that the Atomic Energy Commission has issued the following Amendment (No. 1) to License No. 20-3541-1 authorizing New England Tank Cleaning Company as requested in its application for license amendment dated October 29, 1958, to allow the receipt, packaging and disposal of byproduct material under the direct supervision of Joel B. Bulkley. Mr. Bulkley has served as a consultant for the program and has had 11 years of experience in the handling of curie quantities of radioisotopes at the Radioactivity Center and Cyclotron Group at Massachusetts Institute of Technology. The qualifications of Mr. Bulkley appear adequate to assure that the material will be handled and used in such a manner as to protect the health and safety of the public and minimize danger of life or property.



The Commission has found that prior public notice of proposed issuance of this amendment is not necessary in the public interest since the authorization of another qualified person to directly supervise the program does not affect the health and safety conditions of the operation previously approved by the Commission.

In accordance with the Commission's "Rules of Practice" (10 CFR 2) the Commission will direct the holding of a formal hearing on the matter of the issuance of the license amendment upon receipt of a

ITEM # 39

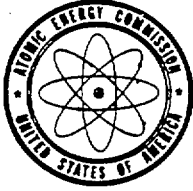
request therefor from the licensee or an intervener within thirty days after the issuance of the license amendment. For further details, see the application for license amendment submitted by New England Tank Cleaning Company, which is on file at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. A copy of the application may be obtained at the Commission's Public Document Room or upon request addressed to the Atomic Energy Commission, Washington 25, D. C., Attention: Director, Division of Licensing and Regulation.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed By  
James R. Mason

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Dated at Germantown, Maryland  
this 11<sup>th</sup> day of December, 1958.



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

BYPRODUCT MATERIAL LICENSE  
NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

License No. 20-3541-1  
(I60)  
Amendment No. 1

In accordance with application dated October 29, 1958 from New England Tank Cleaning Company, License No. 20-3541-1 is amended to change Condition 2 to read as follows:

2. Byproduct material shall be received, packaged, and disposed of by or under the direct supervision of Norman C. Rasmussen and/or Joel B. Bulkley.

This amendment is effective as of the date of issuance.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed By  
James R. Mason

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Date of Issuance:

DEC 11 1958





UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

BYPRODUCT MATERIAL LICENSE  
NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

License No. 20-3541-1  
(I60)  
Amendment No. 2

In accordance with application dated November 4, 1958 from New England Tank Cleaning Company, Condition 7 of License No. 20-3541-1 is amended to read as follows:

7. The licensee shall store and package byproduct material for sea disposal on Great Brewster Island, Boston, Massachusetts, or in the licensee's warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts.

This amendment is effective as of the date of issuance.

FOR THE ATOMIC ENERGY COMMISSION

Original Signed By  
James R. Mason

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Date of Issuance:

DEC 11 1958

ITEM # 40

①

DEC 11 1958

I&R:IB:NLH  
(Docket No. 27-8)

Honorable Foster Furcolo  
Governor of Massachusetts  
Boston, Massachusetts

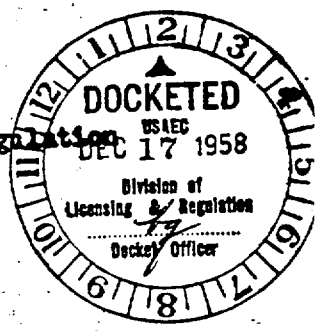
Dear Governor Furcolo:

This is to inform you that the Commission has issued an amendment to a byproduct material license authorizing New England Tank Cleaning Company to package and store byproduct material for sea disposal at the licensee's warehouse in the National Dock Yard, East Boston, Massachusetts. A copy of the notice which includes the license amendment sent to the Federal Register for filing and publication is enclosed.

Copies of this letter and attachment are being sent to Dr. Roy F. Fennster, Commissioner of Public Health; Mr. Ernest A. Johnson, Commissioner, Department of Labor and Industries; and Mr. Raymond I. Rigney, Coordinator of Atomic Development Commission on Atomic Energy.

Sincerely yours,

James E. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation



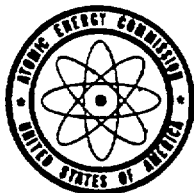
Attachment:  
As noted above

cc: Congressional Communications  
G. W. Morgan, I&R, w/encl

ITEM # 41

| OFFICE  | I&R:IB    | I&R:TB  | I&R:RSB    | OGC      |
|---------|-----------|---------|------------|----------|
| SURNAME | Hervinibq | Mason   | Rogers K77 | Chamoff  |
| DATE    | 12/10/58  | 12/ /58 | 12/ /58    | 12/11/58 |

121



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

DEC 12 1958

Mr. David C. Eberhart, Director  
The Federal Register  
National Archives and Record Service  
Washington 25, D. C.

Dear Mr. Eberhart:

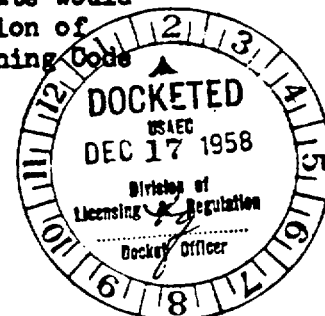
Attached for publication in the Federal Register as a Notice are an original and three certified copies of a document entitled:

"DOCKET NO. 27-8, NEW ENGLAND TANK CLEANING COMPANY,  
NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT MATERIAL  
LICENSE"

Publication of the above document at the earliest possible date would be appreciated. It is requested that you advise the Commission of the filing and publication dates of this document by telephoning Code 119, Extension 3446.

Sincerely yours,

Attorney  
Office of the General Counsel

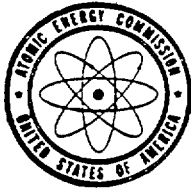


Enclosures:  
Original & 3 cert. cys.

cc: ~~Docket Clerk (CA) (w/o attachment)~~  
Wm. Hughes (IS) (w/cy of attachment)  
W. B. McCool (GMS) (w/cy of attachment)  
Legal Files (w/cy of attachment)  
Law Library (w/cy of attachment) Mr. Losee  
OGC Reading File (w/cy of attachment)  
OGC Chronological File (w/o attachment)

ITEM # 42

①



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

DEC 17 1958 27-8

IN REPLY REFER TO:  
I&R:IB:RLH  
(Docket No. 27-8)

DEC 1 1958

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: E. W. Denault, Sr.  
E. W. Denault, Jr.

Gentlemen:

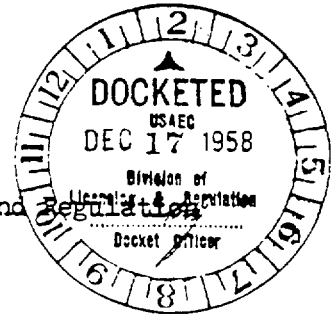
Transmitted herewith is Amendment No. 2 to Byproduct Material License No. 20-3541-1 authorizing the packaging and storage of byproduct material at the ~~Merchants and Seawing Company~~ National Dock Yard, East Boston, Massachusetts.

If there are any questions concerning this amendment, please contact us.

Sincerely yours,

*James R. Mason*  
James R. Mason  
Chief, Isotopes Branch

Division of Licensing and Regulation



Attachment:  
As stated above

*New England Tank Cleaning Company's warehouse*

ITEM # 43

*(D)*

27-8

# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

6115

Dec. 15, 1958

Mr. James R. Mason, Chief  
Isotopes Branch  
Division of Licensing & Regulation  
U.S. Atomic Energy Commission  
Washington 25, D.C.

Dear Sir:

Thank you for your speedy attention to our request, however, we have not yet received approval of the building. Will you please check and find out the cause of this delay?

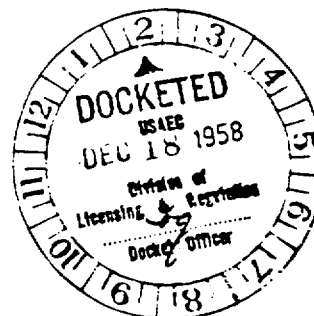
Thank you for your co-operation.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

*Eliot W. Denault, Jr.*  
Eliot W. Denault, Jr.  
President

EMD/k

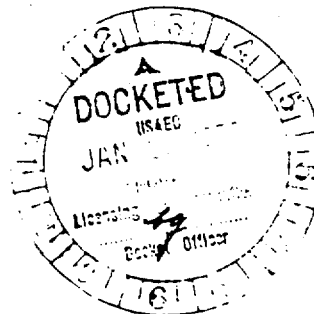


ITEM # 44

R. L. Herwin:bq  
December 16, 1958  
Docket No. 27-8

TELEPHONE CALL TO: Mr. E. W. Denault, Jr.  
New England Tank Cleaning Co.  
Cambridge 41, Massachusetts

Collect call was made to Mr. Denault to confirm that the amount of source and special nuclear material is a procurement limit as well as a possession limit. Mr. Denault stated that this is absolutely right and that they do not intend to procure more than 50 pounds of source material and 5 grams of special nuclear material during the valid period of the license. It was requested that Mr. Denault, Jr. confirm this by letter or by wire. Mr. Denault stated that he had not received Amendment No. 2 and that he would appreciate confirmation of issuance of Amendment No. 2 to cover the use of byproduct material at the National Dock Yard. Mr. Denault was informed that we would confirm this by telegram immediately.



ITEM # 45

A/45

(1)

DOCKET NO. 27-8 1

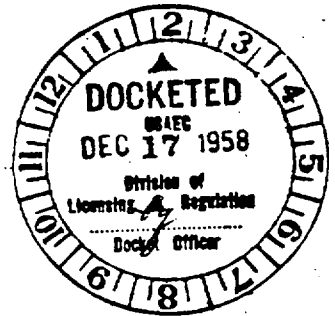
December 16, 1958

E. L. HERVIN, ISOTOPES BRANCH  
DIVISION OF LICENSING AND REGULATION  
U.S. ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

ROUTINE

NEW ENGLAND TANK CLEANING COMPANY  
ATTENTION: E. W. DENAULT, JR.  
135 FIRST STREET  
CAMBRIDGE 41, MASSACHUSETTS

AMENDMENT NO 2 TO LICENSE NO 20-3511-1 ISSUED DECEMBER 11, 1958 AUTHORIZING  
THE PACKAGING AND STORAGE OF BYPRODUCT MATERIAL AT YOUR WAREHOUSE IN THE  
NATIONAL DOCK YARD, EAST BOSTON, MASSACHUSETTS END REF L&R:IB:RLH



ITEM # 46

|                                      |  |  |  |  |  |
|--------------------------------------|--|--|--|--|--|
| RLHervin                             |  |  |  |  |  |
| C-207:5125                           |  |  |  |  |  |
| PPUS ▶ L&R:IB                        |  |  |  |  |  |
| SURNAME ▶ <i>Hervin</i><br>Hervin:bq |  |  |  |  |  |
| DATE ▶ 12/16/58                      |  |  |  |  |  |

①

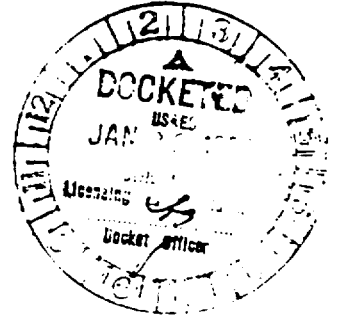
NEW ENGLAND TANK CLEANING CO.

SAND BLASTING · VINYL PLASTIC LININGS  
STEAM CLEANING · WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

S129

December 16, 1958



Mr. J. R. Mason, Chief  
Isotopes Branch  
Division of Licensing & Regulation  
U. S. Atomic Energy Commission  
Washington 25, D.C.

Dear Mr. Mason:

This is to confirm our telephone conversation of today on our request of December 10, 1958.

We wish to confirm that we request permission to procure at one time- and to possess and dispose of source materials-total amount not to exceed fifty pounds, and to possess for purposes of disposal special nuclear materials-amount not to exceed five grams.

Our License No. is #20-3541-1 (160).

We greatly appreciate your co-operation.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

*Eliot W. Denault, Jr.*  
Eliot W. Denault, Jr.  
President

EWD/k

ITEM # 47



UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF APPLICATION FOR AN AMENDMENT TO BYPRODUCT MATERIAL LICENSE

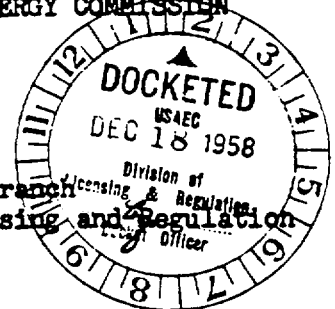
Please take notice that an application for an Amendment to Byproduct Material License No. 20-3541-1 has been filed by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts.

The application requests amendment of the applicant's license to authorize it to store, package, and dispose of 50 pounds of source material and 5 grams of special nuclear material. The materials will be prepackaged by customers of the applicant and will be encased in concrete by the applicant for disposal. Under its current license, the New England Tank Cleaning Company is authorized to store, package, and dispose of 1,000 curies of byproduct material.

A copy of the application is available for public inspection in the Atomic Energy Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C.

FOR THE ATOMIC ENERGY COMMISSION

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation



Dated at Germantown, Maryland  
this 19<sup>th</sup> day of December, 1958.

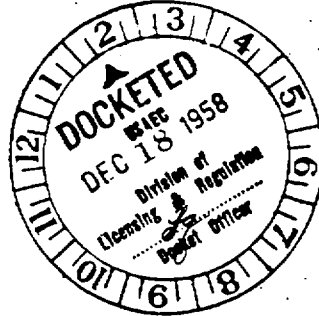
ITEM # 48

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11/48

I&R:IB:RLH  
(Docket No. 27-8)

DEC 18 1958



Honorable Foster Furcolo  
Governor of Massachusetts  
Boston, Massachusetts

Dear Governor Furcolo:

Attached is a notice which has been submitted to the Federal Register for filing and publication.

This notice concerns the receipt of an application from New England Tank Cleaning Company, Cambridge, Massachusetts. The application requests amendment of the applicant's license to authorize it to store, package, and dispose of 50 pounds of source material and 5 grams of special nuclear material.

You will be notified when further action is taken on this application.

Copies of this letter and attachment are being sent to Dr. Roy F. Fecaster, Commissioner of Public Health; Mr. Ernest A. Johnson, Commissioner, Department of Labor and Industries; and Mr. Raymond I. Rigney, Coordinator of Atomic Development Commission on Atomic Energy.

Sincerely yours,

James E. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Attachment:  
As stated above

ITEM # 49 (1)

cc: Congressional Communications

|           |                                       |                      |                       |                       |  |
|-----------|---------------------------------------|----------------------|-----------------------|-----------------------|--|
| OFFICE ▶  | G. W. Morgan, I&R, w/ encl.<br>I&R:IB | I&R:RSB<br>OCB       | I&R:IB                |                       |  |
| SURNAME ▶ | <i>Herwin</i><br>Herwin:Gq            | <i>JRM</i><br>Rogers | <i>GC</i><br>Charnoff | <i>Mason</i><br>Mason |  |
| DATE ▶    | 12/17/58                              |                      |                       |                       |  |

*1/10*

DOCKET NO. 27-8  
 DEC 18 1958

Gerald Charnoff, Attorney  
 Office of the General Counsel

James R. Mason, Chief, Isotopes Branch  
 Division of Licensing and Regulation

FEDERAL REGISTER NOTICE

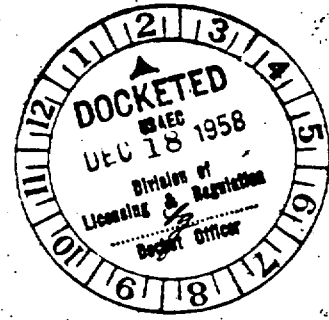
SYMBOL: L&R:IB:KLE

Attached are a signed original and eight copies of Federal Register notice, as follows:

"DOCKET NO. 27-8, NEW ENGLAND TANK CLEANING COMPANY,  
 NOTICE OF APPLICATION FOR AN AMENDMENT TO BYPRODUCT  
 MATERIAL LICENSE"

Also attached, for your signature, are the required number of copies of letter of transmittal to the Federal Register, with additional copies for internal distribution.

Attachments:  
 As noted above



ITEM # 50

①

|           |                            |                     |                       |  |  |
|-----------|----------------------------|---------------------|-----------------------|--|--|
| OFFICE ▶  | I&R:IB                     | I&R:RSB             | I&R:IB                |  |  |
| SURNAME ▶ | <i>Herwin</i><br>Herwin:bq | <i>DN</i><br>Rogers | <i>Mason</i><br>Mason |  |  |
| DATE ▶    | 12/17/58                   |                     |                       |  |  |

*1158*

DOCKET NO. 27-8

I&R:IB:KLE  
(Docket No. 27-8)

DEC 18 1958

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

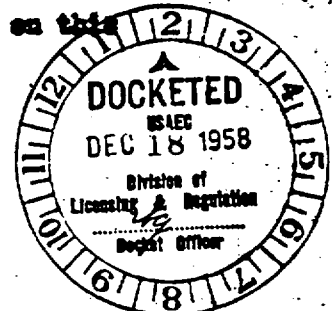
Attention: E. W. Densult, Sr.  
E. W. Densult, Jr.

Gentlemen:

Attached is a notice of receipt of your application for an amendment to your present license to authorize the storage, packaging, and disposal of 50 pounds of source material and 5 grams of special nuclear material.

You will be notified when further action is taken on this application.

Sincerely yours,



James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Attachments:  
As stated above

ITEM # 51

①

|           |                            |                       |                         |                   |  |  |
|-----------|----------------------------|-----------------------|-------------------------|-------------------|--|--|
| OFFICE ▶  | I&R:TB                     | I&R:TB                | I&R:RSB                 | OGG               |  |  |
| SURNAME ▶ | <i>Herwin</i><br>Herwin:bq | <i>Mason</i><br>Mason | <i>Rogers</i><br>Rogers | <i>OGG</i><br>OGG |  |  |
| DATE ▶    | 12/17/58                   |                       |                         | 12/17             |  |  |

1/1

NEW ENGLAND TANK CLEANING CO.

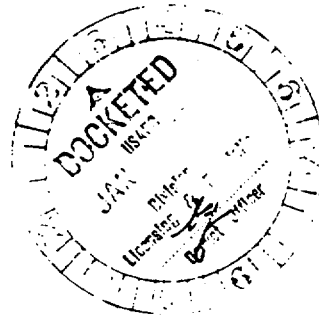
6219

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

December 19, 1958

Mr. J. R. Mason, Chief  
Isotopes Branch  
Division of Licensing & Regulation  
U. S. Atomic Energy Commission  
Washington, 25, D.C.



Dear Mr. Mason:

The Coast Guard just called us and told us that we had unloaded a radioactive drum in Boston Harbor. This drum is tangled in a fisherman's net and has an orange top.

As there are two firms in Boston who have disposal licenses, we being one of them, we feel that we should be given a confidential number or stamp so that we could put it on anything we dispose of as we wish to take responsibility of disposing of any material we receive, but do not wish to take responsibility for any competition's activities.

The strange part about this whole thing is that we have not received any material from anybody-have not taken any contracts, and have not dumped any material anyplace as yet, but I can see where we might be in for some trouble which I wish to avoid, if possible.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

*Eliot W. Denault*  
Eliot W. Denault  
Treasurer

EWD/k

ITEM # 52

①

DOCKET NO. 27-8

DEC 31 1958

Harris M. Mann, Assistant Director  
Division of Inspection, Headquarters

Robert M. Kirkman, Director  
Inspection Division, NYO

TRANSMITTAL OF LICENSE COMPLIANCE INSPECTION REPORT - 10 WPA 30

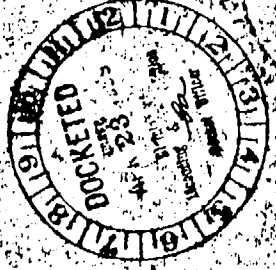
ATTORNEY GENERAL

Transmitted herewith is the following "Client" inspection report:

New England Tank Cleaning Company  
135 First Street  
Cambridge 42, Massachusetts

License No. 20-3500-1 W/mass. 0-2

Enclosures:  
Insp. rpt. (2 cpy.)



ITEM # 58

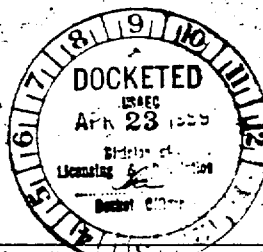
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COMPLIANCE INSPECTION REPORT **DOCKET NO. 27-8**

|  |   |
|--|---|
| 1. Name and address of licensee<br><b>New England Tank Cleaning Company<br/>135 First Street<br/>Cambridge 41, Massachusetts</b> | 2. Date of inspection<br><b>December 16, 1958</b> |
|  | 3. Type of inspection <b>Initial</b>              |
|  | 4. 10 CFR Part(s) applicable<br><b>20 - 30</b>    |
|  |   |

5. License number(s), issue and expiration dates, scope and conditions (including amendments)  
**Number**  
**20-3541-1 w/amend. #1, 2 (See attached sheet for Scope and Conditions)**

5. Inspection findings (and items of noncompliance)  
**The New England Tank Cleaning Company is a corporation solely owned by the Denault family. This company is entering the waste disposal business and will package and dump radioactive materials at sea. Dr. Norman C. Rasmussen, Consultant and R. S. O., has full jurisdiction of the overall decisions involving the safety of operations. Rasmussen and/or Bulkley will be present during receipt and packaging of radioactive wastes. Written radiological safety instructions and procedures are available. Procurement procedures and control, facilities handling procedures, instrumentation, radiological safety precautions and procedures, storage and security of material are adequate. To date no material had been received. No personnel monitoring, surveys or record system are in effect. These reportedly will be maintained as soon as receipt, storage, and packaging operations commence. No items of noncompliance were found during the course of this inspection.**



7. Date of last previous inspection: **None**  
 8. Is "Company Confidential" information contained in this report? Yes  No   
 (Specify page(s) and paragraph(s))  
**Copy to DLR 1-12-59**

DISTRIBUTION: See Paragraphs of (Memo) (Report) \_\_\_\_\_  
 Prepared by: **CCP**  
 Other cc to: \_\_\_\_\_ Approved by: **Paul B. Klevin** (Inspector)  
**Robert W. Kirkman, Director**  
**New York** (Operations office)  
**December 29, 1958**  
 (Date report prepared)

If additional space is required for any numbered item above, the continuation may be extended to the reverse of this form using foot to b format, leaving sufficient margin at top for binding, identifying each item by number and noting "Continued" on the face of form on appropriate item.

UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON, D. C.

BYPRODUCT MATERIAL LICENSE

NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

License No. 20-3541-1  
(160)

Amendment No. 1

In accordance with application dated October 29, 1958 from New  
England Tank Cleaning Company, License No. 20-3541-1 is amended to  
change Condition 2 to read as follows:

Byproduct material shall be received, packaged, and disposed of  
by or under the direct supervision of Norman C. Rasmussen and/  
or Joel B. Bulkley.

This amendment is effective as of the date of issuance.

FOR THE ATOMIC ENERGY COMMISSION

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Date of Issuance)



UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT MATERIAL LICENSE

Please take notice that the Atomic Energy Commission has issued the following Amendment (No. 1) to License No. 20-3541-1 authorizing New England Tank Cleaning Company as requested in its application for license amendment dated October 29, 1958 to allow the receipt, packaging and disposal of byproduct material under the direct supervision of Joel B. Bulkley. Mr. Bulkley has served as a consultant for the program and has had 11 years of experience in the handling of curie quantities of radionuclides at the Radioactivity Center and Cyclotron Group at Massachusetts Institute of Technology. The qualifications of Mr. Bulkley appear adequate to assure that the material will be handled and used in such a manner as to protect the health and safety of the public and minimize danger of life or property.

The Commission has found that prior public notice of proposed issuance of this amendment is not necessary in the public interest since the conduct of the authorized activities would not present any substantial changes in the hazards to the health and safety of the public from those presented by the previously approved waste disposal activities of the licensee.

In accordance with the Commission's "Rules of Practice" (10 CFR 2) the Commission will direct the holding of a formal hearing on the matter of the issuance of the license amendment upon receipt of a

After the issuance of the license amendment. For further details, see the application for license amendment submitted by New England Tank Cleaning Company, which is on file at the Commission's Public Document Room, 1724 M Street, S. W., Washington, D. C. A copy of the license application may be obtained at the Commission's Public Document Room or upon request addressed to the Atomic Energy Commission, Washington 25, D. C. Attention: Director, Division of Licensing and Regulation.

**FOR THE ATOMIC ENERGY COMMISSION**

James E. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Dated at Germantown, Maryland  
this \_\_\_\_\_ day of December, 1958.



UNITED STATES  
ATOMIC ENERGY COMMISSION

WASHINGTON 25, D. C.

BYPRODUCT MATERIAL LICENSE

NEW ENGLAND TANK CLEANING COMPANY

DOC. # NO. 27-8

License No. 20-3541-1  
(160)

Amendment No. 2

In accordance with application dated November 4, 1958 from New

England Tank Cleaning Company, Condition 7 of License No. 20-3541-1  
is amended to read as follows:

7. The licensee shall store and package byproduct material for  
sea disposal on Great Brewster Island, Boston, Massachusetts,  
or in the licensee's warehouse located in the National Dock  
Yard, Levis Street, East Boston, Massachusetts.

This amendment is effective as of the date of issuance.

FOR THE ATOMIC ENERGY COMMISSION

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Date of Issuance

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT M.T.R.I.L. LICENSE

Please take notice that the Atomic Energy Commission has issued the following Amendment (No. 2) to License No. 20-3541-1 authorizing the New England Tank Cleaning Company as requested in its application for license amendment dated November 4, 1958, to store and package byproduct material for sea disposal in the licensee's warehouse in the National Dock Yard, Lewis Street, East Boston, Massachusetts.

Under License No. 20-3541-1, the licensee has been authorized to store and package such material for sea disposal at Great Brewster Island, Boston, Massachusetts. The warehouse is of brick (sides) and frame (roof) construction with concrete and wood flooring. It is fully equipped with a fire sprinkler system. The National Dock Yard area is secured against unauthorized entry by a 12-foot high fence and a watchman.

It appears that the storage and packaging of the waste byproduct material in accordance with the terms and conditions of License No. 20-3541-1 will be conducted in such a manner as to protect the health and safety of the public and minimize danger to life or property.

In accordance with the Commission's "Rules of Practice" (10 CFR 2) the Commission will direct the holding of a formal hearing on the matter of the issuance of the license amendment upon receipt of a request therefor from the licensee or an intervenor within thirty

days after the issuance of the license amendment. For further details, see the application for license amendment submitted by New England Tank Cleaning Company, which is on file at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. A copy of this application may be obtained at the Commission's Public Document Room or upon request addressed to the Atomic Energy Commission, Washington 25, D. C., attention: Director, Division of Licensing and Regulation.

FOR THE ATOMIC ENERGY COMMISSION

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Dated at Germantown, Maryland  
this \_\_\_ day of December, 1958.

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT MATERIAL LICENSE

Please take notice that the Atomic Energy Commission has issued the following Amendment (No. 1) to License No. 20-3541-1 authorizing New England Tank Cleaning Company as requested in its application for license amendment dated October 29, 1958 to allow the receipt, packaging and disposal of byproduct material under the direct supervision of Joel B. Bulkley. Mr. Bulkley has served as a consultant

for the program and has had 11 years of experience in the handling of curie quantities of radioisotopes at the Radioactivity Center and Cyclotron Group at Massachusetts Institute of Technology. The qualifications of Mr. Bulkley appear adequate to assure that the material will be handled and used in such a manner as to protect the health and safety of the public and minimize danger of life or property.

The Commission has found that prior public notice of proposed issuance of this amendment is not necessary in the public interest since the conduct of the authorized activities would not present any substantial changes in the hazards to the health and safety of the public from those presented by the previously approved waste disposal activities of the licensee.

In accordance with the Commission's "Rules of Practice" (10 CFR 2) the Commission will direct the holding of a formal hearing on the matter of the issuance of the license amendment upon receipt of a

of the order from the licensee or an intervenor will  
after the issuance of the license amendment. For further  
details, see the application for license amendment submitted by  
New England Tank Cleaning Company, which is on file at the Commission's  
Public Document Room, 1717 H Street, N. W., Washington, D. C. A copy  
of the application may be obtained at the Commission's Public Document  
Room or upon request addressed to the Atomic Energy Commission,  
Washington 25, D. C., Attention: Director, Division of Licensing  
and Regulation.

FOR THE ATOMIC ENERGY COMMISSION

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Dated at Germantown, Maryland  
this \_\_\_\_\_ day of December, 1958.

BYPRODUCT MATERIAL LICENSE

NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 77-8

License No. 20-35411-4  
(160)

Pursuant to the Atomic Energy Act of 1954, as amended, and Title 10, Code of Federal Regulations, Chapter 1, Part 30, "Licensing of Byproduct Material", and in reliance upon statements and representations heretofore made by the applicant, a license is hereby issued to New England Tank Cleaning Company, 135 First Street, Cambridge 41, Massachusetts, to receive, possess, package, and dispose of byproduct material in the Atlantic Ocean.

This license shall be deemed to contain the conditions specified in Section 10j of the Atomic Energy Act of 1954, as amended, and is subject to the provisions of Title 10, Code of Federal Regulations, Chapter 1, Part 20, "Standards for Protection Against Radiation", and all other applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to the following conditions:

1. The licensee shall not possess more than 1000 curies of byproduct material at any one time.
2. Byproduct material shall be received, packaged, and disposed of by or under the direct supervision of Norman C. Baamsen.
3. The licensee shall receive, package, possess, and dispose of the byproduct material in accordance with the procedure described in the licensee's application dated December 19, 1957, and attachments thereto, and the licensee's letters dated January 14, 1958, February 4, 1958, February 7, 1958, April 1, 1958, and June 20, 1958; except as provided otherwise in



4. A copy of "General Instructions for Personnel Handling Radioactive Substances", "Emergency Procedures", "General Instructions for Vehicular Accidents", "Personal Decontamination Procedures", and "Special Instructions for Final Packaging Operations", as described in the licensee's application and letters specified in Condition 3 of this license, shall be supplied to each employee of the licensee involved in the receipt, packaging, and disposal of byproduct material.

5. Byproduct material received from customers shall be prepackaged in containers which shall not be opened at any time by the New England Tank Cleaning Company, and which shall meet the requirements of Condition 6 of this license. The licensee shall instruct each customer to package the waste material in such a manner as to assure the absence of any significant voids.

6. Intrastate transportation of AEC-licensed material to the location designated in Condition 7 shall be in accordance with the following requirements except as specifically approved by the Atomic Energy Commission

1. Outside Shipping Containers

(1) The containers shall meet any one of the following specifications described in Appendix A attached hereto:

- a. 15A, 15B, 12B, 6A, 6B, 6C, 17C, 17H, 19A, or 19B for the containment of radioactivity in amounts not in excess of 2.0 curies; or
- b. Specification 55 for containment of cobalt 60, cesium 137, iridium 192, or gold 198 in amounts not in excess of 300 curies.

surface of the container. In case of 500 mCi alpha and 0.1 mCi beta-gamma radiation.

- (3) The smallest dimension of the container shall not be less than 4 inches.
- (4) The radiation level at any accessible surface of the container shall not exceed 200 mrem/hr.
- (5) At one meter from any point on the radioactive source the radiation level shall not exceed 10 mrem/hr.
- (6) Containers which contain radioactive material emitting only alpha and/or beta radiation shall contain sufficient shielding to prevent the escape of primary corpuscular radiation to the exterior surface and to reduce the secondary radiation at the surface of the container to at least 10 mrem/24 hours at any time during transportation.

### B. Inside Containers

- (1) Solid and gaseous radioactive materials shall be packed in suitable inside containers designed to prevent rupture and leakage under conditions incident to transportation.
- (2) Liquid radioactive materials must be packed in sealed glass, earthenware, or other suitable containers. The container must be surrounded on all sides by an absorbent material sufficient to absorb the entire liquid contents and be of such nature that its efficiency will not be impaired by chemical reactions with the contents. Where shielding is

shield. If the inside container meets the Specification in Appendix A the absorbent material must be placed in Appendix A the absorbent material is not required.

- (3) Materials containing radioisotopes of plutonium, americium, polonium, or curium, or the isotope strontium 90, in quantities in excess of 100 microcuries, must be packed in containers which meet Specification 2B in Appendix A.

#### C. Shielding

Inside containers must be completely surrounded with sufficient shielding to meet the requirements of Paragraphs 1 (h), A (5), and A (6) of this condition. The shield must be so designed that it will not open or break under normal conditions incident to transportation.

#### D. Labeling

Each outside container label required under Section 20.203 (f)(1) of 10 CFR 20 shall bear the following information:

- (1) Total activity in millieuries, or in the case of source and special nuclear material, the total weight;
- (2) principal radioisotope;
- (3) radiation level at the surface of the container and at one meter from the source; and
- (4) the name and address of the licensee.

E. Each vehicle in which licensed material is transported shall be marked or placarded on each side and the rear with lettering at least 3 inches high as follows: DANGEROUS - RADIOACTIVE

MATERIAL.

in the event of an accident involving any vehicle transporting

licensed material, immediate steps shall be taken to prevent radiation exposure of persons and to control contamination.

9. Exemptions

Specific approval must be obtained from the Atomic Energy Commission for modification of, or exemption from, the requirements of this license condition. Requests for such approval should be directed to the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, and should contain sufficient information to support such a request.

7. The licensee shall store and package byproduct material for sea disposal at Great Brewster Island, Boston, Massachusetts.

8. The licensee shall dispose of byproduct material in an area bounded by the parallels of Latitude  $41^{\circ} 38' N.$  and  $41^{\circ} 26' N.$  and by the meridians of Longitude  $65^{\circ} 28' W.$  and  $65^{\circ} 15' W.$  at a minimum depth of 1000 fathoms.

9. The licensee shall notify the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, at least 20 days prior to each disposal, by letter deposited in the United States mail properly stamped and addressed, of the proposed date for disposal, the total number of containers, the total activity in millicuries, and the most hazardous radionuclide contained in each container.

10. Byproduct material shall be disposed of at sea within 21 months

from the date on which the New England Tank Cleaning Company first  
takes possession of such material.

This license shall be effective on the date issued and shall expire on  
September 30, 1960.

FOR THE ATOMIC ENERGY COMMISSION

J. R. Masco  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Date of Issuance:

PART 30 INSPECTION

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Date of Inspection: December 16, 1958

Persons Accompanying Inspector:

Captain Lynch, U. S. Coast Guard, Captain of the Port of Boston

Persons Contacted:

Elliot Demault, Jr., President of the Company  
Elliot Demault, Sr., Secretary and Treasurer  
Dr. Norman C. Rasmussen, R. S. O.  
Mr. Joseph Bulkley, Consultant

9. Organization and Administration

New England Tank Cleaning Company is a family corporation solely owned by the Demaults. This firm has been engaged in tank cleaning of tank farms, petroleum farms, and petroleum tanks, rebuilding fire fighting and petroleum equipment, fabricating component parts of tank farms in the management and operation of government owned tank farms. Elliot Demault, Jr. stated that they have entered this new waste disposal business inasmuch as they feel that within the next five years this type of business will expand and that they would like to get in on the ground floor.

The Company maintains its offices at 135 First Street, Cambridge, Massachusetts. Records of receipt, inventory and disposal, according to Demault, Jr., will be maintained at this office.

Elliot Demault, Jr., President of the corporation stated he has had no radiation experience other than taking a course under Rasmussen and Bulkley at MIT in the winter of 1957. He was graduated from Yale, completing a course in Industrial Administration. He was also a petroleum engineer for the Gulf Oil Corporation and has attended the Maine Maritime Academy. He was commissioned as Ensign and holds Third Mate papers in the Merchant Marine.

Elliot Demault, Sr., Secretary and Treasurer of the corporation, has had no training in radiation safety. According to Demault, Jr., his father is head of NETA Company and manages the financial offices of the Company.

Dr. Norman C. Rasmussen, Consultant and R. S. O., obtained a Ph.D. from MIT doing work in Nuclear Measurements. He worked for the MIT radioactivity center from 1952 to 1957 under Dr. Evans. At present, he is Assistant Professor of Nuclear Engineering at MIT. He is presently located at the MIT Reactor working under Dr. Thompson.

Joel Bulkley has been employed by Dr. R. C. Evans, Director of the Radioactivity Center, MIT, for the past 12 years. He also serves as Safety Officer at MIT's cyclotron.

According to Rasmussen, no Radiation Safety Committee exists. As R. S. O. of the company, Rasmussen has full jurisdiction of overall decisions involving the safety of operations. He said both he and/or Bulkley will be present during receipt and packaging of all radioactive wastes.

Thomas Sawyer, Supervisor of Equipment (foreman) will be present during receipt, packaging and shipping of radioactive wastes. Sawyer, who was trained by Rasmussen and Bulkley at MIT, will be in charge of the work gang who will package and ship wastes. He will be performing his duties under the direction of Rasmussen and Bulkley.

Elliot Demault, Jr., was also trained by Rasmussen and Bulkley at MIT and was engaged in receipt, packaging and shipping of radioactive wastes.

## 10. Procurement Procedures and Control

Rasmussen said he will be responsible for receiving radionuclides and for seeing that the limit of material to be obtained under their license is not exceeded. He stated that procurement procedures will be as follows:

1. New England Tank Cleaning Company will accept all packages from licensees who ship in accordance with ICC requirements.
2. New England Tank Cleaning Company will also pick up radionuclides at their customers facilities, using trucks owned by the company. These trucks, when carrying radionuclides, will be posted with the proper radiation caution sign and symbol as required by their license.
3. New England Tank Cleaning Company will not repackage or open containers received from any of the licensees or customers. Rasmussen said that if any broken or open packages are received, he will notify both the company who sent the broken shipment and the Commission of the incident.

## 11. Facilities and Handling Procedures

No work will be done on packaging radioactive wastes at the office location noted in Item 9. Records of receipts, inventory, disposal and radiation surveys will be maintained at this office.

Demault, Jr. stated that his corporation has purchased Brewster Island, which is located off the coast of Boston. Both Rasmussen and Demault stated they were doubtful whether they will ever use these facilities inasmuch as they have recently procured space at the National Dock and Storage Company, located at East Boston, Massachusetts. Demault said that his company purchased the stock of the Merchants Wool Scouring Company so that they can use their facilities to receive, store, and package radionuclides.

Inspection of the facilities located within the National Dock and Storage Company revealed the following:

1. The Merchants Wool Scouring Company's building contains 65,000 square feet of space. It is located within the National Dock area, which is fenced off and guarded on a 24 hour basis. The roof of the building is strung with barbed wire and all windows of the building are protected against entry by metal bars. The building itself is locked and contains a sprinkling system throughout the facility. The floors of the building are both wooden and concrete. In one area of the building there are four 6 x 6 x 6' deep pits. The walls around these are of 18" concrete. The concrete wall extends 4' above and 4' below ground level. Rasmussen said that these pits may be possibly used for hot storage and packaging. Another area, a 65 x 72' wooden building attached to the permanent brick building will be used to initially store radionuclides. The wooden building has wooden and concrete floors and has a railroad siding directly adjacent to it. Demault stated that New England Tank Cleaning Company will employ two trucks in their waste disposal program and will obtain such mechanical equipment as necessary to perform their job. Several weigh scales were noted to be located throughout the building. These will be used for weighing and packaging of drums in concrete.

The handling procedures, according to Rasmussen, will be as follows:

### A. Railway Express Shipments

1. When material is shipped by railway express, a bill of lading will be received at 135 First Avenue.
2. Arrangements will be made to receive the packaged material at the warehouse. Upon receipt of the material, both a direct radiation survey and smear survey will be taken of all incoming shipments.
3. The drums containing radioactive wastes will be stored in the wooden building described above until such time as they are packaged in concrete and ready for disposal.

4. The concreted packages will be transferred to an ocean going barge, which will be located approximately 100' from the storage building.
5. New England Tank Cleaning Company will notify the Coast Guard and AEC prior to any disposal.
6. An ocean going tug will tow the barge containing radioactive materials to a dumping area paralleled by the Latitude  $41^{\circ} 53' W$  and  $41^{\circ} 23' N$ , and by the meridians of Longitude  $65^{\circ} 23' W$  and  $65^{\circ} 45' W$ . Waste drums will be dumped at this location having a minimum depth of 1000 fathoms.

**B. New England Tank Cleaning Company pick-ups at customers' facilities**

1. A waste disposal form will be filled out by the licensee making shipment to New England Tank Cleaning Company.
2. The package will be monitored with a survey meter to see that it meets the ICC requirements.
3. Wastes will be transferred by truck to the National Dock warehouse for storage.
4. The waste materials will be packaged in concrete for sea disposals. Concrete will be allowed to set for at least one week.
5. The disposal procedures will be the same as noted for A above.

**12. Instrumentation**

New England Tank Cleaning Company possesses an operable Juno SRJ3 alpha beta gamma survey meter, range 0 - 50 r. A Universal Atomic Model 700 beta gamma survey meter, range 0 - 50 mr was on hand and found to be inoperable. Rasmussen stated that he will install new batteries and calibrate this instrument.

**13. Radiological Safety Precautions and Procedures**

With the exception of Denault, Sr., all the persons noted in this report have been instructed by J. Bulkley and Rasmussen in radiological health and safety at MIT.

Written radiological health and safety procedures are available and are included in the licensee's file. These procedures contain general instructions for personnel handling radioactive substances, general instructions in case of a vehicular accident, emergency procedures to be taken in case of an area spill, contamination of skin or in case of an inhalation or ingestion accident. The instructions also include personnel decontamination procedures and special instructions for final packaging. The instructions also list a copy of Appendix A, "Personnel Weekly Dose" as published in 10 CFR 20. Rasmussen stated that smear tests and radiation surveys will be made of the storage area, work areas, barges, trucks and other equipment maintained by the licensee. He stated that no surveys have been made to date inasmuch as no materials have been received since they have obtained their license.

**14. Storage and Security of Material**

No material was found stored at the warehouse during this inspection. New England Tank Cleaning Company's facilities, located within the National Dock and Storage Company area, is secured against entry by the following means:

1. All doors to the buildings were barred and locked by key, the key being held by Denault, Jr. and Rasmussen.
2. The windows to the warehouse are barred. The roof of the building is secured against entry by barbed wire.



3. The National Dock area is completely fenced in, the entrance to the area is guarded 24 hours by a guard under the pay of National Dock and Storage Company. Demault, Jr. stated that the rental of his building is \$4.00 a year. This includes guard protection.

15. Waste Disposal

No material was on hand at the time of this inspection and no material has been received to date. The method of disposal is reported under facilities.

16. Posting and Labeling

The building or areas were not posted at the time of the inspection as no materials were on hand. Posting and labeling requirements were discussed with the licensee. Rasmussen stated he will label containers in accordance with 10 CFR 20 when they are received.

17. Personnel Monitoring

Rasmussen stated that no film badge program is in effect. He intends to use a bi-weekly film badge service supplied by Controls for Radiation, Cambridge, Massachusetts. He also intends to use Lansverk Model L-50 pocket dosimeters, which will be supplied to his personnel and read daily. No dosimeters were available at the time of inspection.

18. Surveys

No direct radiation or airborne radiation surveys have been made in the restricted or unrestricted areas to date. Rasmussen said he intends to make a survey prior to receipt of radiowastes.

19. Records

Rasmussen said that he intends to maintain the following records of receipt:

1. Form NETCCO, 100 will be supplied to their customers. This form contains the name and address of persons or companies wishing to dispose of wastes. The wastes, container number, the condition of the wastes (liquid or solid), and the contents of the container are also on this form. Under contents, the date, isotope and approximate activity in microcuries are included. A note on the bottom of the form cautions the shipper that the radiation level at the surface of the container should not exceed 200 mr/hr. A copy of this form is included in the licensee's file.
2. Form NETCCO 200 will be used at the warehouse upon receipt of the material. This form contains a notation as to the name of the shipper of radioactive material, the date received, the waste container number, the approximate total activity in microcuries, the type of waste (liquid or solid), the principal isotope, and the signature of a representative of the New England Tank Cleaning Company receiving the waste. At the bottom of this record is a notation as to final disposition of the wastes. A copy of the above record is included in the licensee's file.

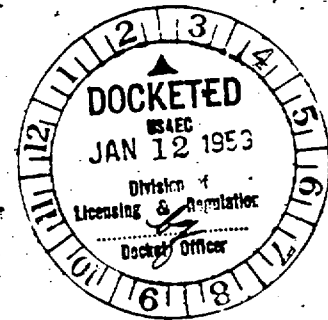
Film badges, dosimeter, inventory, purchase, and smear test records were not available inasmuch as no material has been received to date.

20. Meeting with Captain Lynch, Captain of the Port, U.S. Coast Guard on 12/16/58

After the inspection of the facilities and offices of New England Tank Cleaning Company, an informal meeting was held with Captain Lynch. Captain Lynch stated that all the facilities being employed by New England Tank Cleaning Company appear to be adequate from a security standpoint. He said that he will check with New England Tank Cleaning Company periodically to determine whether they have obtained any radioactive material. Once they do obtain and store material at National Docks, he intends to have his personnel check the storage location approximately three times per week.

DEC 31 1958

I&R:TB:KLE  
(Docket No. 27-8)



New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: E. W. Densult, Sr.  
E. W. Densult, Jr.

Gentlemen:

Transmitted herewith is Amendment No. 3 to Byproduct Material License No. 20-3541-1 authorizing the New England Tank Cleaning Company to receive, possess, package, and dispose of 30 pounds of source material and 5 grams of special nuclear material.

If there are any questions concerning this amendment, please contact us.

Sincerely yours,

Original Signed By  
James R. Mason

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

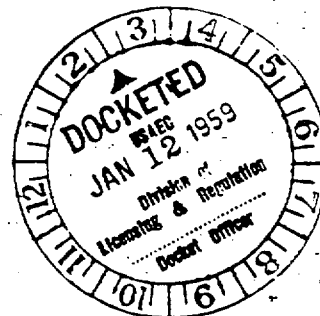
Attachment:  
As stated above

ITEM # 54

|           |           |         |          |          |  |
|-----------|-----------|---------|----------|----------|--|
| OFFICE ▶  | I&R:TB    | I&R:RSB | OGT      | I&R:TB   |  |
| SURNAME ▶ | Herwin:bg | Rogers  | Charnoff | Mason    |  |
| DATE ▶    | 12/31/58  | WAL CMF |          | 12-31-58 |  |

DEC 31 1958

L&R: IB:RLH  
(Docket No. 27-8)



Honorable Foster Furcolo  
Governor of Massachusetts  
Boston, Massachusetts

Dear Governor Furcolo:

This is to inform you that the Commission has issued an amendment to Byproduct Material License No. 20-3541-1 authorizing New England Tank Cleaning Company, Cambridge, Massachusetts, to receive, possess, package and dispose of source and special nuclear material in the Atlantic Ocean. A copy of the notice, which includes the amendment, sent to the Federal Register for filing and publication is enclosed.

Copies of this letter and attachment are being sent to Dr. Roy W. Faenster, Commissioner of Public Health; Mr. Ernest A. Johnson, Commissioner, Department of Labor and Industries; and Mr. Raymond I. Rigney, Coordinator of Atomic Development Commission on Atomic Energy.

Sincerely yours,

Original signed by  
James R. Mason  
James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Attachment:  
As stated above

cc: Congressional Communications  
G. W. Morgan, L&R, w/encl.

ITEM # 55

|           |                          |                              |                  |                         |  |
|-----------|--------------------------|------------------------------|------------------|-------------------------|--|
| OFFICE ▶  | L&R: IB<br><i>Hervin</i> | L&R: RSB<br><i>LRR LGCMB</i> | OCC<br><i>LC</i> | L&R: IB<br><i>Mason</i> |  |
| SURNAME ▶ | Hervin:bd                | Rogers                       | Charnoff         | Mason                   |  |
| DATE ▶    | 12/31/58                 |                              | 12/31            | 12-31-58                |  |

*16*

DEC 31 1958

Gerald Charnoff, Attorney  
Office of the General Counsel

James E. Mason, Chief, Isotopes Branch  
Division of Licensing and Regulation

FEDERAL REGISTER NOTICE

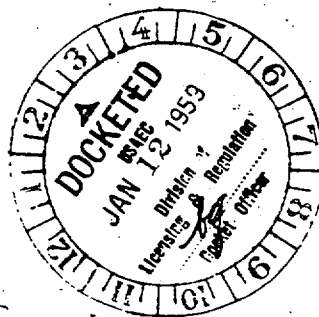
SYMBOL: L&R:IB:RLH

Attached are a signed original and eight copies of Federal Register notice, as follows:

"BUCKET NO. 27-8, NEW ENGLAND TANK CLEANING COMPANY, NOTICE OF RESUANCE OF AN AMENDMENT TO BYPRODUCT MATERIAL LICENSE"

Also attached, for your signature, are the required number of copies of letter of transmittal to the Federal Register, with additional copies for internal distribution.

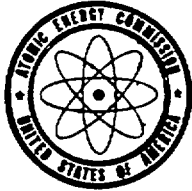
Attachments:  
As noted above



ITEM # 56

|           |                                |                              |                |  |  |
|-----------|--------------------------------|------------------------------|----------------|--|--|
| OFFICE ▶  | L&R:IB /<br><i>[Signature]</i> | L&R:RSB                      | L&R:IB         |  |  |
| SURNAME ▶ | Herwin:ba                      | Rogers<br><i>[Signature]</i> | Mason<br>Mason |  |  |
| DATE ▶    | 12/31/58                       |                              | 12-31-58       |  |  |

*[Handwritten mark]*



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.  
JAN 2 1959

Mr. David C. Eberhart, Director  
The Federal Register  
National Archives and Record Service  
Washington 25, D. C.

Dear Mr. Eberhart:

Attached for publication in the Federal Register as a Notice are an original and three certified copies of a document entitled:

"DOCKET NO. 27-8, NEW ENGLAND TANK CLEANING COMPANY,  
NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT  
MATERIAL LICENSE"

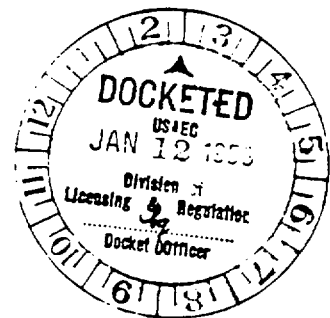
Publication of the above document at the earliest possible date would be appreciated. It is requested that you advise the Commission of the filing and publication dates of this document by telephoning Code 119, Extension 3446.

Sincerely yours,

Attorney  
Office of the General Counsel

Enclosures:  
Original & 3 cert. cys.

cc: Docket Clerk (CA) (w/o attachment)  
Wm. Hughes (IS) (w/cy of attachment)  
W. B. McCool (GMS) (w/cy of attachment)  
Legal Files (w/cy of attachment)  
Law Library (w/cy of attachment) Mr. Losee  
OGC Reading File (w/cy of attachment)  
OGC Chronological File (w/o attachment)



ITEM # 57

L&R:IB:KLE  
(Doctet No. 17-8)

JAN 13 1959

Mr. Elliot W. Dunsalt  
Treasurer  
New England Tank Cleaning Company  
133 First Street  
Cambridge 41, Massachusetts

Dear Mr. Dunsalt:

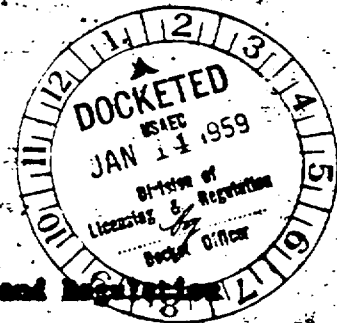
This is in response to your letter of December 19, 1958 regarding identification of waste disposal drums.

Reference is made to Item 3 of your letter dated February 27, 1958 and Item 4 of your letter dated January 17, 1958 which specify that a metal tag will be riveted to the disposal container and the tag will contain the following information: "Radioactive Waste, name and address of company, date, activity in millicuries, principle isotope, and serial number". Hence, it appears that your drums are adequately identified without additional information such as a confidential number or stamp. However, this does not preclude any additional identification of your final disposal container which you may desire to adopt.

We appreciate your prompt notification and considerations regarding this matter.

Sincerely yours,

James E. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation



ITEM # 58

|           |                             |                       |  |  |  |
|-----------|-----------------------------|-----------------------|--|--|--|
| OFFICE ▶  | L&R: IB /                   | L&R: IB               |  |  |  |
| SURNAME ▶ | <i>Hervin</i><br>Hervin: bq | <i>Mason</i><br>Mason |  |  |  |
| DATE ▶    | 1/12/59                     |                       |  |  |  |

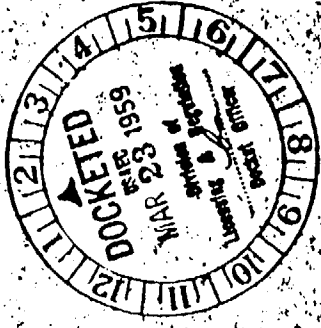
*D n l*

DOCKET NO. 278

L&R: D: 1121

Docket No. 27-3

MAR 19 1959



Mr. Elliott W. Bennett, Jr.  
 New England Tank Cleaning Company  
 135 First Street  
 Cambridge 41, Massachusetts

Subject: LICENSE NO. 30-3541-1

Dear Mr. Bennett:

With respect to a number of licenses authorizing the use disposal of waste radiactive materials, the Commission has recently amended the condition of these licenses providing transportation to assure appropriate requirements covering both intrastate and interstate transportation are included. Condition 6 of your present license covers only intrastate transportation. We are therefore proposing to amend the introductory paragraph of Condition 6 as follows:

"6. The transportation of AEC-licensed material to and from the location designated in Condition 7 shall be subject to the applicable regulations of the Interstate Commerce Commission, United States Coast Guard and other agencies of the United States having appropriate jurisdiction, and where such regulations are not applicable shall be in accordance with the following requirements except as specifically provided by the Atomic Energy Commission:

It appears to us that in the public interest your license should be modified by the substitution of this condition. Accordingly this letter is being sent to you pursuant to the provisions of 30.51 of Title 10, Code of Federal Regulations, Part 30, "Licensing of Byproduct Material" in order that prior to the institution of any proceedings by the Commission for modification of the license you may have an opportunity to request this change. If you are willing

ITEM # 59

| OFFICE  | L&R: IB   | L&R: IB | L&R: RSB | OGC    | L&R      | L&R      |
|---------|-----------|---------|----------|--------|----------|----------|
| SURNAME | Hervin:ba | Mason   | Rogers   | Conner | ER Price | HR Price |
| DATE    | 3/18/59   | 3/ /59  | 9/ /59   | 3/ /59 | 3/ /59   | 3/ /59   |

(2)

U. S. GOVERNMENT PRINTING OFFICE: 19-57701-2

| OFFICE   | SURNAME    | DATE    |
|----------|------------|---------|
| L&R: IB  | HELAND, PA | 3/18/59 |
| L&R: IB  | MASON      | 3/18/59 |
| L&R: RSB | ROGERS     | 3/1/59  |
| OGC      | CONNOR     | 3/18/59 |
| L&R      | ERPRICE    | 3/18/59 |
| L&R      | HI PRICE   | 3/19/59 |

**Division of Licensing and Regulation**

**Blanket License**

To have this condition added to your license without a formal order, please indicate this to us within 30 days from the date of this letter. If we do not receive this indication from you, an order will be issued for this modification of your license. The Commission also has amended the condition in these licenses covering the quantity of radioactivity which may be placed in a specified container to increase the quantity, except for polonium, from 2 curies to 2.7 curies to conform more closely with NRC regulations. If you wish condition 6 A(1) of your present license to be amended to this effect, please advise us accordingly.

Mr. Elliott W. Bennett, Jr.  
 MAR 19 1959



## Office Memorandum • UNITED STATES GOVERNMENT

TO : Files

DATE: MAR 16 1959

FROM : G. W. Morgan, Chief  
State and Interagency BranchDOCKET NO. 278 2227SUBJECT: MEETING WITH RAYMOND I. RIGNEY, COORDINATOR FOR THE STATE OF  
MASSACHUSETTS

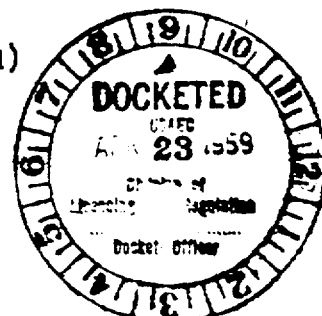
Mr. Rigney had questions regarding (1) details regarding the waste disposal licenses of New England Tank Company, (2) a mechanism for keeping states informed as to amendments which will significantly affect a license, (3) a better system of informing states on inspection and subsequent action, (4) better coordination on investigation of incidents, (5) more highly centralized coordination within the Commission, and (6) the availability of a speaker to give a detailed explanation of the Commission's licensing and inspection system to the Massachusetts Commission on Atomic Energy, its Advisory Committee, State Agency Heads, and selected legislators.

Mr. Rigney stated that one of the State Senators was very much concerned over the licensing of the New England Tank Company to store radioactive waste in a warehouse in the National Dry Dock Yard, Lewis Street, East Boston, Massachusetts. He states that local papers in the area had made an issue out of this and that there have been editorials asking the Senators what he was going to do about it.

The Senator told Mr. Rigney that he had made a personal visit to the warehouse and that he does not feel that it is properly guarded to give adequate protection to children who may be playing in the area. He stated that because of the wide concern of his constituents, he is going to solicit the assistance of two or three U. S. Representatives, and of Senator Kennedy, to have the AEC prohibit storage of wastes in this warehouse. If necessary, he will get two or three hundred of his constituents to lie down across the road to form a human bridge to prohibit the trucks from hauling materials into this area.

Mr. Rigney was quite concerned because we had not given him prior notice before the license was amendment to permit storage of wastes in the warehouse. He therefore urged that we arrange a mechanism to notify him in advance for such significant amendments to a license. He further feels such proposed amendments should be

(Continued)



*File - Lic  
New England Tank*

ITEM # 60

*also (1)*

Files

- 2 -

(Meeting with Raymond  
I. Rigney)

MAR 16 1958

made a matter of public record before action is taken. He realizes that many of these items may relate primarily to public relations; but nevertheless, he feels they are very important.

In checking our files, it was noted that Messrs. Mason and Nussbaumer visited the proposed storage area before the license was amendment and found the site to be satisfactory and that it is guarded at nights and over the weekends. Mason requested the licensee to get the concurrence of the State Health Department and the Boston Fire Chief before the amendment was made and received a letter from him stating that he had.

The writer agreed to look into the requests made by Mr. Rigney and to inform him as to our future course with respect to the major items.

Action is being taken to this effect.



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

**BYPRODUCT, SOURCE AND SPECIAL NUCLEAR MATERIAL LICENSE  
NEW ENGLAND TANK CLEANING COMPANY**

**DOCKET NO. 7-8**

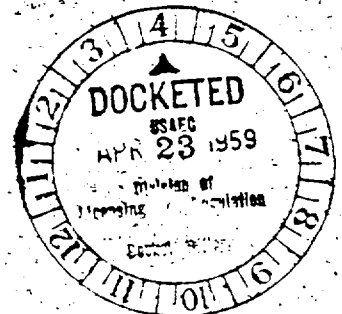
**License No. 20-1541-1  
(160)  
Amendment No. 4**

In accordance with letter dated March 25, 1959, License No. 20-1541-1  
is amended to:

A. Delete the first paragraph of Condition 6 and to insert in lieu  
thereof the following paragraph:

6. "The transportation of AEC-licensed material to and from  
the location designated in Condition 7 shall be subject  
to the applicable regulations of the Interstate Commerce  
Commission, United States Coast Guard and other agencies  
of the United States having appropriate jurisdiction,  
and where such regulations are not applicable shall be  
in accordance with the following requirements except as  
specifically provided by the Atomic Energy Commission;"  
and

B. Amend Condition 6 A(1)a to read as follows:



ITEM # 61

61 R

Office: LAR:IB  
 Surname: HAYLINDA  
 4/17/59  
 LAR:RSB  
 ROBERTA  
 4/17/59  
 OGC  
 CONNER  
 MASON  
 4/23/59

APR 23 1959

Date of Issuance:

Original Signed by  
 James K. Mason  
 James K. Mason, Chief  
 Isotopes Branch  
 Division of Licensing and Regulation

FOR THE ATOMIC ENERGY COMMISSION

This amendment is effective as of the date of issuance.

excess of 2.7 curies, except plutonium, 2 curies."

the containment of radioactivity in amounts not in

1. "15A, 15B, 15C, 6A, 6B, 6C, 17C, 17E, 19A, or 19B for

## Office Memorandum • UNITED STATES GOVERNMENT

TO : James R. Mason, Chief, Isotopes Branch  
Division of Licensing and Regulation

DATE: APR 23 1959

FROM : R. L. Hervin, Technical Reviewer *R. L. Hervin*  
Isotopes Branch, Division of Licensing and Regulation

SUBJECT: AMENDMENT NO. 4 TO LICENSE NO. 20-3541-1, NEW ENGLAND TANK  
CLEANING COMPANY

SYMBOL: L&R:IB:RLH

In accordance with the policy of not publishing in the Federal Register those amendments to licenses not involving a substantial change in the licensee's program, Amendment No. 4 to License No. 20-3541-1 is attached for your consideration. The amendment is a result of our letter of March 19, 1959 which notified the New England Tank Cleaning Company of a proposed change in Condition 6 of their license pursuant to Section 30.51, 10 CFR 30. The proposed change in the transportation requirements involved clarification of the condition to be more inclusive regarding intra and interstate transportation and to allow 2.7 curies (rather than 2.0 curies) per container which is in line with current ICC regulations. New England Tank Cleaning Company concurred in this change of Condition 6 of their license by letter dated March 25, 1959. Hence, the amendment does not represent a change in the original "Notice of Proposed Issuance" as published in the Federal Register. Therefore, it appears that the receipt and transportation in accordance with the terms and conditions of the license as amended is adequate to protect the health and safety of the public and to minimize danger of life and property.

Attachment:  
As noted above

OK  
gmm 4-23-59  
File in Docket.

716 Supply  
DOCKET NO. 279

# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

~~3083~~  
Newin -  
docket

March 30, 1959

Atomic Energy Commission  
Washington 25, D.C.

Gentlemen:

We are interested in being considered for clean-up jobs connected with the missile sites. We have all types of cleaning equipment such as vacuums, sand (grit) blasters, steamers, mine safety appliances, etc.

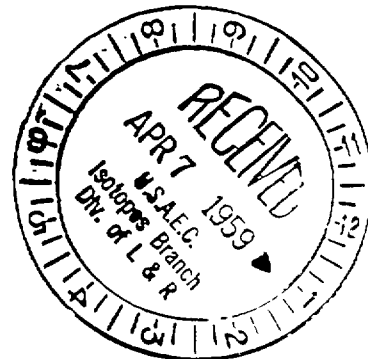
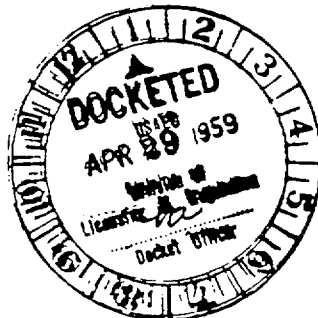
In addition we apply all types of protective coatings to all surfaces. We handle all types of radioactive cleaning problems and are licensed by the Atomic Energy Commission for sea disposal of radioactive materials.

If this letter should be forwarded to another department, will you please do so, as we think it might be to the advantage of the government as well as to us to have this letter reach the right person for action.

AMW &  
A/2A/39  
phone  
JRM  
↓  
do not have  
original

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY  
*Eliot W. Denault, Jr.*  
Eliot W. Denault, Jr. President



NEW ENGLAND TANK CLEANING CO.

2791

SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITE

135 FIRST STREET, CAMBRIDGE 41, MASS.

March 24, 1959

United States Atomic Energy Commission  
Washington 25, D.C.

RE: L&R:IB:RLH Docket No. 27-8

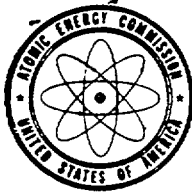
Subject: License No. 20-3541-1

Gentlemen:

In reference to your notification of March 19, 1959 we accept the proposed amending of the introductory paragraph of Condition number 6 of our present license, and we also accept modification of Condition 6 A(1) of our present license as suggested in same letter.

NEW ENGLAND TANK CLEANING COMPANY

Elliot W. Denault, Jr.  
President



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

IN REPLY REFER TO:

L&R: IB:RIH  
Docket No. 27-8

May 29, 1959

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Eliot W. Denault, Jr., President

Gentlemen:

This is in response to your letter dated May 14, 1959.

It is not necessary to have our approval for packaging waste material at the Massachusetts Institute of Technology under their license and supervision. Condition 11 of License No. 20-1537-2 issued to the Massachusetts Institute of Technology specifies that "Byproduct material shall be used by, or under the direct supervision of individuals approved by the Radioisotope Committee, Harriet L. Hardy, M. D., Chairman". ~~Therefore, if you package wastes at the Massachusetts Institute of Technology, you will be subject to this condition and all other terms and conditions of License No. 20-1537-2.~~

Very truly yours,

James R. Mason, Chief  
Isotopes Branch  
Division of Licensing and Regulation

*C. Harriet L. Hardy*

*Therefore, if MIT wants you to ~~package~~ package byproduct material in their facilities under their license, it is only necessary for MIT, the licensee, to assure that all conditions of their license are complied with.*

ITEM # 62

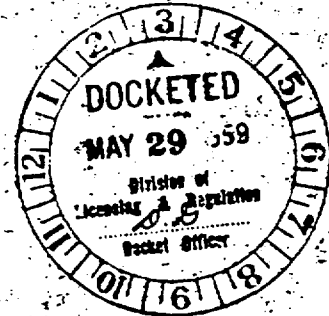
*A/62 (2)*



DOCKET NO. 27-8

LAR:EB:RIH  
Docket No. 27-8

May 29, 1959



New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Eliot W. Densult, Jr., President

Gentlemen:

This is in response to your letter dated May 14, 1959.

It is not necessary to have our approval for packaging waste material at the Massachusetts Institute of Technology under their license and supervision. Condition 11 of License No. 20-1537-2 issued to the Massachusetts Institute of Technology specifies that "Byproduct material shall be used by, or under the direct supervision of individuals approved by the Radioisotope Committee, Harriet L. Hardy, M. D., Chairman". Therefore, if the Massachusetts Institute of Technology wants you to package byproduct material in their facilities under their license, it is only necessary for the Massachusetts Institute of Technology, the licensee, to assure that all conditions of their license are complied with.

Very truly yours,

James R. Mason, Chief  
Isotopes Branch  
Division of Licensing and Regulation

cc: Dr. Harriet L. Hardy, Chairman  
Radioisotope Committee

|           |                                |                                |  |  |  |  |
|-----------|--------------------------------|--------------------------------|--|--|--|--|
| OFFICE ▶  | Isotopes<br><i>[Signature]</i> | Isotopes<br><i>[Signature]</i> |  |  |  |  |
| SURNAME ▶ | EHervin:dg                     | RMB<br>Mason                   |  |  |  |  |
| DATE ▶    | 5/29/59                        | 5/ /59                         |  |  |  |  |

# NEW ENGLAND TANK CLEANING CO.

0128

SAND BLASTING — VINYL PLASTIC LININGS  
STEAM CLEANING — WATERPROOFING

GUNITE

BOOKLET NO

278

135 FIRST STREET

CAMBRIDGE 41, MASS.

*file att*

*Jim*

January 7, 1960

Mr. J. R. Mason, Chief,  
Isotopes Branch  
Division of Licensing and Regulations  
U. S. Atomic Energy Commission  
Washington 25, D.C.

Dear Mr. Mason:

As a license holder I understand that the government, namely the Navy, is picking up and disposing of waste from different companies in this district.

*file*

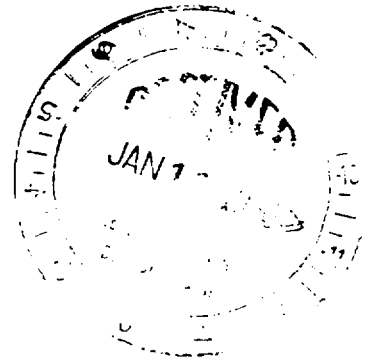
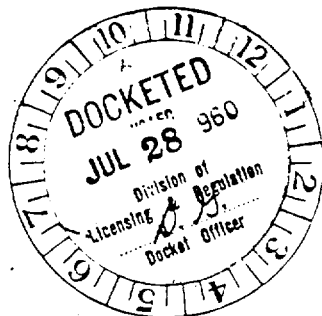
The one I have run into recently was Massachusetts Institute of Technology. I did not know that the Navy had a license which allowed them to do this. Will you please advise?

*pull license file*

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY  
*E. W. Denault*  
Eliot W. Denault  
Treasurer

EWD/k



ITEM # 63

*D. A. I.*

DOCKET NO. 27-8

L&R:IB:JEM

JAN 22 1960

Mr. Eliot W. Denault, Treasurer  
New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Dear Mr. Denault:

This is in reply to your letter of January 7, 1960 regarding disposal of radioactive wastes by the Navy.

The First Naval District has in the past disposed of wastes obtained from the Massachusetts Institute of Technology. The last disposal of such wastes occurred in 1958.

The First Naval District does not have an Atomic Energy Commission license to dispose of radioactive wastes at sea.

We have brought the current waste disposal regulations to the attention of the Massachusetts Institute of Technology. They have also been informed that the First Naval District does not have a waste disposal license.

Very truly yours,

Original Signed By  
James R. Mason

James R. Mason, Chief  
Isotopes Branch  
Division of Licensing and  
Regulation

ITEM # 64

|           |                      |                 |                 |  |  |
|-----------|----------------------|-----------------|-----------------|--|--|
| OFFICE ▶  | L&R:RSB              | L&R:IB          |                 |  |  |
| SURNAME ▶ | <i>Cunningham/bc</i> | <i>Mason/bc</i> | <i>J. Mason</i> |  |  |
| DATE ▶    | 1-21-60              | 1-21-60         | 1-21-60         |  |  |

*114 (11)*

L&R:IB:JEM

Mr. Eliot W. Denault, Treasurer  
New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Dear Mr. Denault:

This is in reply to your letter of January 7, 1960 regarding disposal of radioactive wastes by the Navy.

The Navy has in the past disposed of wastes obtained from the Massachusetts Institute of Technology. The last disposal of such wastes occurred in 1958.

Recently the Boston Naval Shipyard notified us that they would not dispose of radioactive wastes at sea unless they obtained a license to do so. We do not have an application from them.

We have brought the current waste disposal regulations to the attention of the Massachusetts Institute of Technology. They have also been informed that the Navy does not have a license to dispose of radioactive wastes at sea.

Very truly yours,

James R. Mason, Chief  
Isotopes Branch  
Division of Licensing and  
Regulation

|           |               |        |  |  |  |  |
|-----------|---------------|--------|--|--|--|--|
| OFFICE ▶  | L&R:RSB       | L&R:IB |  |  |  |  |
| SURNAME ▶ | Cunningham:bc | Mason  |  |  |  |  |
| DATE ▶    | 1-21-60       | 1- -60 |  |  |  |  |

L&R:IB:JUM

Mr. Eliot V. Denaunt, Treasurer  
New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Dear Mr. Denaunt:

This is in reply to your letter of January 7, 1960 regarding the disposal of radioactive wastes by the Navy.

In the early days of the isotopes distribution program, authorized users of these materials could dispose of waste radioactive material in any safe manner. Now, however, the Commission's regulations in Section 20.301 specify the several authorized methods of waste disposal.

Recently, the Boston Naval Shipyard notified us that they would not dispose of any more radioactive wastes unless they obtained a license to do so. We do not have an application from them.

We have brought the current waste disposal regulations to the attention of the Massachusetts Institute of Technology. Your interest in this matter is appreciated.

Very truly yours,

James R. Mason, Chief  
Isotopes Branch  
Division of Licensing and  
Regulation

Enclosure;  
Title 10, CFR, Part 20

|           |          |         |  |  |  |
|-----------|----------|---------|--|--|--|
| OFFICE ▶  | L&R:IB   | L&R:RSB |  |  |  |
| SURNAME ▶ | Mason:bc | ROBERTS |  |  |  |
| DATE ▶    | 1-20-60  |         |  |  |  |

| MEMO ROUTE SLIP<br>Form AEC-98 (Rev. May 14, 1947)                             |                        | See me about this.<br>Note and return.   | For concurrence.<br>For signature. | For action.<br>For information. |
|--|------------------------|--|------------------------------------|---------------------------------|
| TO (Name and unit)<br><b>J. R. Mason<br/>L&amp;R</b>                           | INITIALS<br><br>DATE   | REMARKS<br><b>Re letter from New England Tank Cleaning Company<br/>to J. R. Mason dated January 7, 1960.</b> |                                    |                                 |
|  |                        | <b>The original of the above letter is returned</b>  |                                    |                                 |
| TO (Name and unit)   | INITIALS<br><br>DATE   | REMARKS<br><b>herewith for further consideration by your office<br/>per our conference today.</b>            |                                    |                                 |
| TO (Name and unit)   | INITIALS<br><br>DATE   | REMARKS<br><i>[Handwritten signature]</i>  |                                    |                                 |
| FROM (Name and unit)<br><b>L. D. Low<br/>INS</b> <i>[Handwritten initials]</i> | REMARKS                | <i>Files not attached per</i>  |                                    |                                 |
| PHONE NO.<br><b>3336</b>   | DATE<br><b>1/13/60</b> |  |                                    |                                 |

USE OTHER SIDE FOR ADDITIONAL REMARKS

U. S. GOVERNMENT PRINTING OFFICE : 1957-O-422007

C-214

5122

1-12-60

# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING — VINYL PLASTIC LININGS  
STEAM CLEANING — WATERPROOFING  
GUNITE

135 FIRST STREET

CAMBRIDGE 41, MASS.

DOCKET NO. 28-8

*Supp*

July 13, 1960

U. S. Atomic Energy Commission  
Washington 25, D.C.



Attention of Mr. E. L. Price, Director

Dear Sir:

Your letter of May 23, 1960 regarding NOTICE TO AEC LICENSEES caused us to do some extensive research.

It is almost impossible for a licensee to compete against the United States Government successfully financially, and as long as the United States Government is furnishing burial sites for atomic wastes, a firm with a sea burial site is practically out of business.

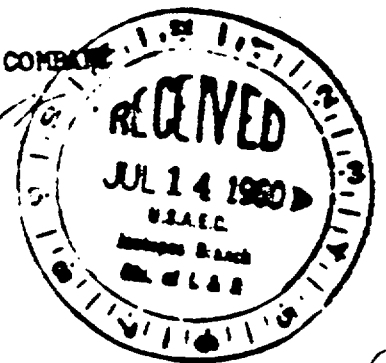
We would like to be considered as having a permanent burial site here in New England with enough land to properly protect the United States Government under a so-called "spendthrift" trust in which the land would be permanently used for atomic disposal, and regardless of the financial outcome of the company operating the land could not be attached or repossessed in any way, and would be a permanent burial ground.

We wish to apply officially for such a license and will provide grounds to meet your specifications.

Awaiting your early advice.

NEW ENGLAND TANK CLEANING COMPANY  
*Ellet W. Dematt*  
Ellet W. Dematt  
Treasurer

END/1



ITEM # 65

①  
11/5

*Supp*

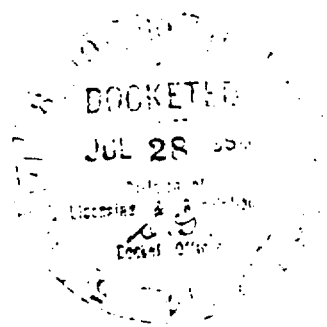
SECRET 27-8

*27-8*

JUL 17 1960

New England Tank Cleaning Co.  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Eliot W. Denault  
Treasurer



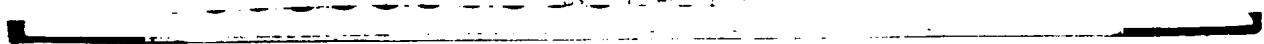
Gentlemen:

Your letter of July 13, 1960, concerning your interest in the operation of a land disposal installation is being referred to the Division of Production.

You may desire to have your license amended to allow you to transfer waste to Oak Ridge National Laboratory or Idaho Falls as announced in Release No. C-85 on May 9, 1960. An application for amendment should indicate that only solids or solidified liquids will be transferred to the Commission owned burial site and shipments will be made in accordance with Interstate Commerce Commission regulations or their equivalent.

Very truly yours,

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation



ITEM # 66

①



# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING — VINYL PLASTIC LININGS  
STEAM CLEANING — WATERPROOFING  
GUNITÉ

135 FIRST STREET

CAMBRIDGE 41, MASS.

July 21, 1960

United States Atomic Energy Commission  
Washington 25, D.C.

Attention of Mr. James H. Mason, Chief, Isotopes Branch

Dear Sir: RE: Letter 19 July 1960

In reply to your letter of 19 July, 1960, we wish to have our license No. 20-3541-1 (160) amended to allow us to transfer waste to Oak Ridge National Laboratory or Idaho Falls as announced in Release No. C-85 on May 9, 1960.

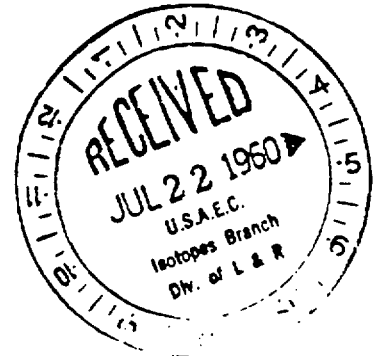
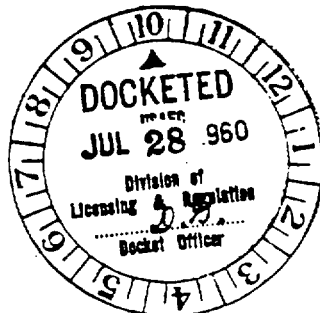
Only solids or solidified liquids will be transferred to the Commission owned burial site and shipments will be made in accordance with Interstate Commerce Commission regulations or their equivalent.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

*Eliot W. Densuit*  
Eliot W. Densuit  
Treasurer

EWD/k



ITEM # 67

1

W.S.C.

DOCKET NO. 27-8

*Supp*

AUG 4 '60

New England Fuel Cleaning Company  
135 First Street  
Cambridge 01, Massachusetts

Attention: Mr. Ellet W. Donault  
Treasurer

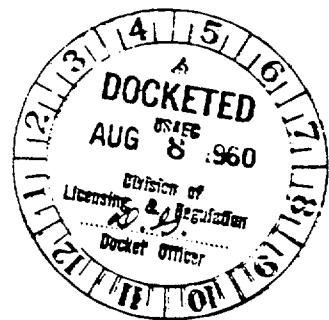
Gentlemen:

Your letter of July 14, 1960, to Mr. H. L. Price, Director of the Division of Licensing and Regulation of the Atomic Energy Commission, has been referred to this office. You stated that you would like to be considered for licensee operation of a land burial site for radioactive wastes in the New England area.

The AEC's Press Release C-45, which you received with Mr. Price's May 23 notice to AEC licensees, designated Commission-owned land at Oak Ridge and Idaho Falls for use as interim burial sites in order to assure that land burial facilities for solid radioactive wastes are available pending the establishment of such other burial sites as may be required. The need for the Atomic Energy Commission to establish other burial sites is under current review and in this connection, we are also studying possible bases upon which private industry could participate in land disposal operations in any new burial sites to be established. In addition, studies are being made of the criteria to apply to burial sites as a basis for considering license applications for this type of service.

We appreciate your activity in our radioactive waste disposal program, along with wishing to be considered as a possible licensee for the operation of a land burial installation. However, until development of the above information has been completed, we are unable to consider seriously an application for the operation of a land burial site, but will keep in mind your interest during the formulation of plans for the establishment by the Atomic Energy Commission of any permanent burial site for radioactive wastes in the New England area.

ITEM # 68



*11.4 (7)*

DOCKET NO. 27-8

AUG 4 1950

New England Tank Cleaning Company

-2-

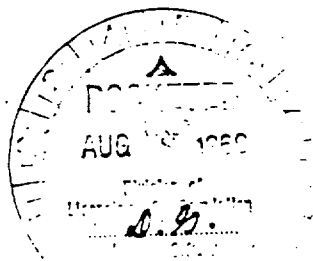
In the meantime, as presented in the letter of July 14 from Mr. James H. Mason, Division of Licensing and Regulation, it is possible for you to utilize the interim land burial sites announced in Press Release C-15.

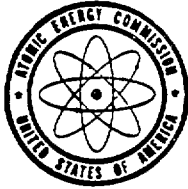
You may be interested to know that some State Governments have informally expressed interest in establishing their own sites for land burial of radioactive wastes; for example, the State of New York recently announced the selection of an engineering company to recommend a satisfactory land disposal site within New York State. To the extent that such State sites, whether operated by the State Government or by private contractors under State sponsorship, do serve the nuclear industry of any specific region, they would, of course, alleviate the need for the Atomic Energy Commission establishing disposal sites to serve that region.

Very truly yours,

G. F. Quinn, Director  
Division of Production

CC: J. E. Mason, L&R  
W. G. Mason, DRD





UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

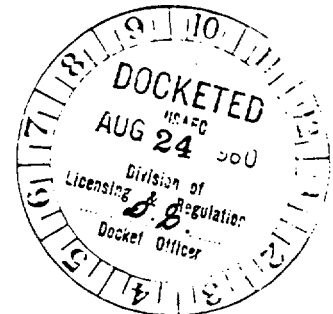
IN REPLY REFER TO:

Packet No. 27-8

AUG 15 1960

**New England Tank Cleaning Company  
133 First Street  
Cambridge, Massachusetts**

**Attention: E. V. Besselt, Jr.**



Gentlemen:

On August 9, 1960, an explosion occurred in Boston, Massachusetts on the premises of the Cross Roads Marine Company which operates a disposal service for various kinds of waste materials.

The material involved was zirconium scrap from an electronics firm. The explosion occurred when water in which the scrap was immersed to prevent chemical reaction leaked out from a drum accidentally punctured during handling.

Because the firm is licensed to handle low-level radioactive waste materials, the AEC's Radiological Assistance Network was immediately activated.

It was determined that no radioactive material was involved. An AEC inspector has determined that there was no violation of Commission regulations or license conditions and that none of the zirconium scrap involved was stored among drums of radioactive waste materials.

The zirconium explosion occurred in drums located several hundred feet from the site where sealed drums containing low-level radioactive wastes are stored by the firm. Drums awaiting encasement in concrete are required to be stored in a brick building. Only after such encasement are the concrete packages permitted to be stored in the fenced area around the building.

Port and municipal authorities are conducting an inquiry. The AEC is notifying other firms engaged in industrial disposal operations and licensed to provide radioactive waste disposal services of the accident as a precautionary measure.

In another case, a drum containing sodium with residual radioactivity ruptured with minor consequences.

ITEM # 69

1/19/60

AUG 18 1968

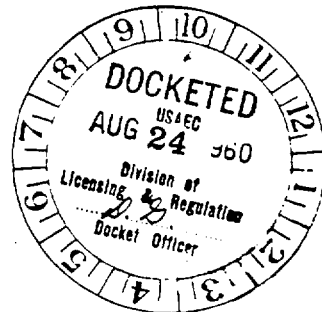
You are requested to re-examine the precautions that you are taking to keep hazardous industrial materials separate from low-level wastes handled under your AEC license, and to segregate such materials in the event that they are included among wastes received under your license.

It is requested that you advise us promptly of the procedures that you employ.

Sincerely yours,

*R L Kirk*

R. L. Kirk  
Acting Director  
Division of Licensing and Regulation



SECRET 27-8

# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING — VINYL PLASTIC LININGS  
STEAM CLEANING — WATERPROOFING  
GUNITE

4515

135 FIRST STREET

CAMBRIDGE 41, MASS.

August 19, 1960

United States  
Atomic Energy Commission  
Washington 25, D. C.

Docket No. 27-8

Attention R. L. Kirk, Acting Director

Gentlemen:

We do not accept material and/or chemicals of a hazardous nature  
that will explode.

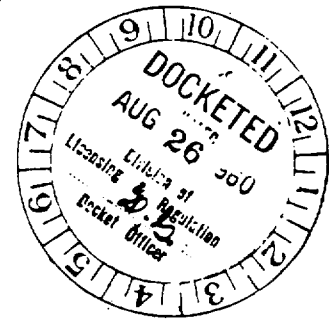
Very truly yours,

NEW ENGLAND TANK CLEANING CO.

*Eliot W. Densault, Jr.*  
Eliot W. Densault, Jr.  
President

EW/d

Reference is made to your letter of August 15, 1960, signed by  
E. L. Kirk, Acting Director, Division of Licensing and Regu-  
lation.



ITEM # 70

A170 (6)

|         |        |         |
|---------|--------|---------|
| 7/6/60  | 7/6/60 | 7/8/60  |
| LR:IB   | LR:IB  | LR:IB   |
| COOL:ds | Mason  | HLR:ICE |
|         |        |         |



RECEIVED

We have received an application for renewal of license No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, authorizing the conduct of a commercial radioactive waste disposal service.

In view of the intense public interest in waste disposal, it is requested that an inspection be made of the operations conducted by the licensee and the report forwarded for our consideration at least a month prior to the expiration of license No. 20-3541-1 on September 30, 1960.

SYMBOL: LR:IB:RSC

NEW ENGLAND TANK CLEANING COMPANY, DECREE NO. 27-8

Division of Licensing and Regulation  
 E. L. Price, Director

Division of Compliance  
 L. B. Low, Director

JUL 2 1960

Original signed by E. L. Price

DOCKET NO. 27-8

JUL 12 1960

L. B. Lee, Director  
Division of Compliance

H. L. Price, Director  
Division of Licensing and Regulation

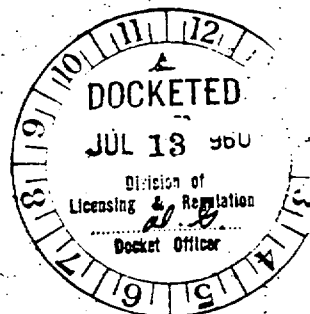
NEW ENGLAND TANK CLEANING COMPANY, DOCKET NO. 27-8

SYMBOL: L&R:IB:WBC

Original Signed by R. L. Kirk

We have received an application for renewal of License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, authorizing the conduct of a commercial radioactive waste disposal service.

In view of the intense public interest in waste disposal, it is requested that an inspection be made of the operations conducted by the licensee and the report forwarded for our consideration at least a month prior to the expiration of License No. 20-3541-1 on September 30, 1960.



L&R:IB

L&R:IB

L&R

Cool:dg

Mason

HLPrice

7/6/60

7/ /60

7/ /60



DOCKET NO. 27-8

JUL 6 1960

BAR:EB:WBC  
Docket No. 27-8

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. E. W. Donault, Jr.

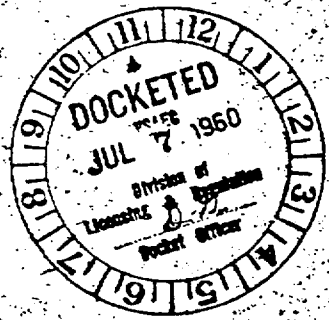
Gentlemen:

This will acknowledge receipt of your application dated June 17, 1960, which requested renewal of License No. 20-3541-1, prior to its expiration dated September 30, 1960.

You will be advised when action is taken on this application.

Sincerely yours,

James E. Mason, Chief  
Isotopes Branch  
Division of Licensing  
and Regulation



|           |                      |          |  |  |  |
|-----------|----------------------|----------|--|--|--|
| OFFICE ▶  | Isotopes             | Isotopes |  |  |  |
| SURNAME ▶ | <i>W.C. Coolidge</i> | Mason    |  |  |  |
| DATE ▶    | 7/5/60               | 7/ /60   |  |  |  |

# NEW ENGLAND TANK CLEANING CO.

SAND BLASTING — VINYL PLASTIC LININGS  
STEAM CLEANING — WATERPROOFING  
GUNITE

135 FIRST STREET

CAMBRIDGE 41, MASS.

June 17, 1960

Atomic Energy Commission  
Washington 25, D.C.

Attention of Mr. James R. Mason

Gentlemen:

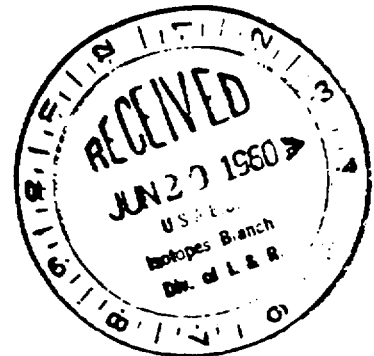
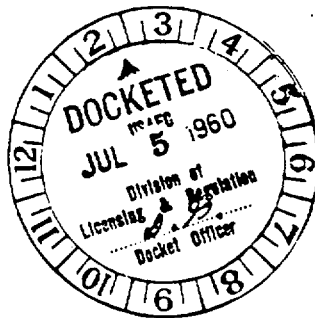
We respectfully request renewal of our License No. 20-3541-1-(160)  
and amendments to same No. 1; No. 2; No. 3;

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

*Elliot W. Denault, Jr.*  
Elliot W. Denault, Jr.  
President

EWD/k



L&R:IB:WCC  
Docket No. 27-8

JUN 9 1960

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Elliott W. Donnit, Jr.

Gentlemen:

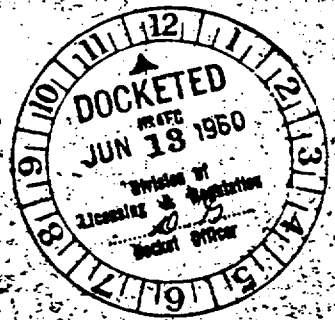
The Commission has for some time been studying the question of land burial for low-level, packaged radioactive wastes from AEC licensees. Although economic considerations indicated that provision of land burial facilities would facilitate the development of the peaceful uses of atomic energy, a related matter was the policy with respect to establishment of such burial grounds by private firms. In January 1960, the Commission announced that AEC would establish interim disposal sites pending designation of permanent disposal sites. (See attachment).

A subsequent announcement which is attached has now been issued, implementing the January action; it provides information with respect to land burial facilities now available to licensees, including charges to be made for this service. This announcement is being sent to all AEC licensees.

Sincerely yours,

Original Signed By  
James R. Mason

James R. Mason, Chief  
Isotopes Branch  
Division of Licensing  
and Regulation



Attachments:  
As stated above

|           |                       |                          |  |  |  |
|-----------|-----------------------|--------------------------|--|--|--|
| OFFICE ▶  | L&R: IB               | L&R: IB                  |  |  |  |
| SURNAME ▶ | <i>WCC</i><br>Cool:dg | <i>Mason/oc</i><br>Mason |  |  |  |
| DATE ▶    | 6/8/60                | 6/9/60                   |  |  |  |

DLR:RSB

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

OCT 5 1960

OCT 5 1960

Attention: Mr. Elliot Deansult, Jr., President

Gentlemen:

This refers to the inspection conducted on July 21, 1960, of your activities authorized under AEC Byproduct Material License No. 20-3541-1.

We note that survey records were not maintained as required by the AEC's "Standards for Protection Against Radiation," Part 20, Title 10, Code of Federal Regulations, Section 20.401(c), "Records of surveys, radiation monitoring and disposal." This requirement was called to your attention by the inspector and you stated that you would correct the deficiency. Should you have any questions about this matter, please feel free to write me. Your survey records will be reviewed during the next inspection of your facilities.

There were no other items of noncompliance noted as a result of this visit. We appreciate the cooperation given the AEC representative.

Very truly yours,

cc: Compliance Division, HQ  
Inspection Division, NYOO  
Public Document Room

James R. Mason, Chief  
Isotopes Branch  
Division of Licensing  
and Regulation

Enclosure  
10 CFR 20

|           |          |         |  |  |  |  |
|-----------|----------|---------|--|--|--|--|
| OFFICE ▶  | DLR:RSB  | DLR:IB  |  |  |  |  |
| SURNAME ▶ | RGP: LRR | JRMason |  |  |  |  |
| DATE ▶    | 10-5-60  | 10/5/60 |  |  |  |  |

ITEM # 71

161 (D)

UNITED STATES GOVERNMENT

# Memorandum

TO : Harold L. Price, Director, Division of  
Licensing and Regulation, Headquarters

DATE: AUG 12 1960

FROM : Robert W. Kirkman, Director  
Compliance Division, NYOO *RW*

SUBJECT: TRANSMITTAL OF LICENSE COMPLIANCE INSPECTION REPORT-10 CFR 30  
40 AND 70

SYMBOL: CMP:PRN

Transmitted herewith is the following inspection report involving noncompliance:

NEW ENGLAND TANK CLEANING COMPANY  
135 First Street  
Cambridge 41, Massachusetts

License No.: 20-3541-1 w/amends. 1, 2, 3 and 4

The following item of noncompliance was noted during the course of this inspection:

20.401 "Records of surveys, radiation monitoring and disposal"

(c) - in that records of radiation surveys were not maintained. (See paragraph 19 of report details.)

The above item of noncompliance was discussed with Mr. Elliot Denault, Jr., President of the company, and Dr. Norman C. Rasmussen, Radiological Safety Officer, who stated that they would correct the condition noted.

(continued)

Harold L. Price

- 2 -

AUG 12 1960

Inasmuch as the item of noncompliance does not constitute a hazard, no follow-up inspection will be scheduled.

We recommend that a letter be sent to Mr. Elliot Denault, Jr., President, with a copy to Dr. C. Rasmussen, requiring that the item of noncompliance be corrected.

Enclosure:  
1 cy Rpt.

cc: Div of Cmp, Hq.  
w/orig. of Rpt.

**COMPLIANCE INSPECTION REPORT**

|  |  |
|--|--|
| 1. Name and address of licensee<br><br><b>NEW ENGLAND TANK CLEANING COMPANY</b><br><b>135 First Street</b><br><b>Cambridge 41, Massachusetts</b> | 2. Date of inspection<br><p align="right"><b>July 21, 1960</b></p> 3. Type of inspection <b>Reinspection</b><br>4. 10 CFR Part(s) applicable<br><p align="right"><b>20 - 30 - 40 -</b></p> |
|--|--|

5. License number(s), issue and expiration dates, scope and conditions (including amendments)

| <u>License No.</u> | <u>Date</u> | <u>Exp. Date</u> |
|--------------------|-------------|------------------|
| 20-3541-1          | 10/9/58     | 9/30/60          |
| amend. 1           | 12/11/58    | 9/30/60          |
| amend. 2           | 12/11/58    | 9/30/60          |
| amend. 3           | 12/31/58    | 9/30/60          |
| amend. 4           | 4/23/59     | 9/30/60          |

See report details.

6. Inspection findings (and items of noncompliance)

The New England Tank Cleaning Company is a corporation solely owned by the Denault family. Although licensed to dispose of radioactive waste at sea, disposals have been made to date. The minimal amounts of radioactive waste received by the company to date are in storage awaiting disposal. Dr. Norm C. Rasmussen, Radiological Safety Officer, is responsible for radiological safety and has full authority where decisions involving radiological safety concerned. All handling of radioactive materials is performed under his direct supervision. Facilities, instrumentation, radiation safety precautions and procedures, personnel monitoring, survey, procurement, waste disposal, post and labeling are adequate. The only item of noncompliance observed or noted during the course of the inspection is as set out below:

- 20.401 "Records of surveys, radiation monitoring and disposal"  
 (c) - in that records of radiation surveys were not maintained. (See paragraph 19 of report details.)

|   |  |
|---|--|
| 7. Date of last previous inspection<br><br><b>December 16, 1958</b> | 8. Is "Company Confidential" information contained in this report? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>(Specify page(s) and paragraph(s)) |
|---|--|

DISTRIBUTION:

1 cy - Div of Comp, Hq.  
 1 cy - D L & R  
 2 cys - Comp Div, NYOO

**Paul R. Nelson**  
 (Inspector)  
 Approved by: **Robert W. Kirkman**  
**New York**  
 (Operations office)  
**August 11, 1960**  
 (Date report prepared)

If additional space is required for any numbered item above, the continuation may be extended to the reverse of this form using foot note format, leaving sufficient margin at top for binding, identifying each item by number and noting "Continued" on the face of form appropriate item.

PART 30, 40, 70 INSPECTION

NEW ENGLAND TANK CLEANING COMPANY  
135 First Street  
Cambridge 41, Massachusetts

Date of Inspection: July 21, 1960 (Announced)

Persons Accompanying Inspector:

None.

Persons Contacted:

Mr. Elliot Denault, Jr., President of the company  
Dr. Norman C. Rasmussen, Radiological Safety Officer

DETAILS

9. Inspection History

On December 16, 1958 an initial inspection was made by this office of the activities being conducted under License No. 20-3541-1 w/amends. 1 and 2, which authorized the company to receive, possess, package and dispose of byproduct material in the Atlantic Ocean. The inspection revealed that no radioactive waste had been received, and the report was forwarded to Inspection Headquarters under memorandum of December 31, 1958 with no items of noncompliance noted. No correspondence from DL&R to the licensee concerning this inspection could be found in the licensee's file at the New York Operations Office.

On July 21, 1960 a reinspection, as now being reported, was made of the activities being conducted under License 20-3541-1 w/amends. 1, 2, 3 and 4. No changes were found in their program as initially reported with the exception that some radioactive waste has been collected and is in storage awaiting disposal.

10. Organization and Administration

The New England Tank Cleaning Company, which is solely owned by the Denault family, is engaged primarily in the cleaning of petroleum tanks.



Mr. Elliot Denault, Jr., President of the company, is a graduate of Yale, and while there, studied industrial administration. He attended the Maine Maritime Academy, was commissioned as Ensign and holds Third Mate papers in the Merchant Marine. His training in radiological safety consists of a course in radiation taken at MIT during the winter of 1957. His duties, with respect to radioactive material handling, consist of directing the activities of those engaged in receiving, packaging and transferring of the radioactive waste to their storage facility.

Dr. Norman C. Rasmussen, Consultant and R.S.O., obtained his Ph.D. from MIT doing studies in nuclear measurements. He worked for the MIT radioactivity center from 1952 to 1957 under Dr. Evans. At present, he is Assistant Professor of Nuclear Engineering at MIT and is located at the MIT reactor. Rasmussen's duties, with respect to License No. 20-3541-1, consist of directly supervising the activities being conducted under this license.

No radiation safety committee exists. Rasmussen as R.S.O. reportedly has full responsibility for decisions involving the safety of the operation.

#### 11. Facilities and Uses of Byproduct Material

None of the radioactive waste received to date has been disposed of at sea. All such waste, with but two exceptions (see paragraph 15), is stored in the Merchants Wool Scouring Company's building located within the National Dock area, Boston, Massachusetts. This building, purchased by the Denaults specifically for receiving, packaging and storing radioactive waste, is a large (65,000 square feet) frame and brick structure, and is equipped with a sprinkling system for protection against fire. Rasmussen reported that handling had consisted merely of the transfer of radioactive waste containers to the storage location and their encasement in concrete for future disposal.

The total quantity of radioactive waste accumulated since the issuance of their license on October 9, 1958 is as follows:

##### Concreted for Ocean Disposal

| <u>Quantity</u> | <u>Form and Volume</u>       | <u>Isotopes</u>                            | <u>Amount</u>  |
|-----------------|------------------------------|--|--|
| 7               | wooden boxes<br>2-1/2' cubed | Cs-137<br>Zn-65<br>Fe-55<br>Co-60<br>Ca-45 | less than<br>1 mc/box<br><br>less than<br>7 mc total |
| 1               | wooden box<br>2-1/2' cubed   | Br-90                                      | 20 mc  |

The concrete containers were approximately 4' x 4' x 4' in size with a minimum specific gravity of reportedly 1.2.

Original Shipping Container - Not Concreted

| <u>Quantity</u> | <u>Form and Volume</u> | <u>Isotopes</u>                | <u>Amount</u>                       |
|-----------------|------------------------|--------------------------------|-------------------------------------|
| 5               | 33 gallon drums        | I-131<br>S-35<br>P-32<br>Cr-51 | less than<br>1 mc/drum              |
| 8               | 7-1/2 gallon drums     | H-3                            | less than<br>2 c/drum<br>10 c total |
| 6               | 33 gallon drums        | S-35<br>P-32                   | less than<br>15 mc total            |

License No. 20-3541-1 w/amends. 1, 2, 3 and 4 authorizes New England Tank Cleaning Company to receive, possess, package and dispose of byproduct material, source, and special nuclear material in the Atlantic Ocean. Condition 1 of the license sets forth a possession limit of 1000 c of byproduct material. Condition 11 sets forth a procurement limit of 50 pounds of source material and 5 grams of special nuclear material.

12. Instrumentation and Calibration Procedures

The licensee possesses a Juno, Model SRJ3, survey meter having a range of 0 to 5 r/hr, and a Universal Atomics, Model 700, GM survey meter having a range of 0 to 50 mr/hr. Rasmussen stated that the instruments were calibrated yearly by the MIT Radiation Protection Group.

13. Radiological Safety Precautions and Procedures

Rasmussen stated that all personnel associated with the radioactive waste handling had been instructed by himself or Mr. Joel Bulkley, Safety Officer at the MIT cyclotron, in radiological health and safety. In addition, written instructions are available covering handling procedures, protective apparel, contamination control, personnel monitoring, emergencies, personnel decontamination and vehicular accidents.

Rasmussen reported that each radioactive waste container received was surveyed by himself to determine its radiation dose rate, and smeared to detect loose contamination. He added that he had also made radiation dose rate surveys at the radioactive waste storage area to ensure that posting requirements were being met and that permissible radiation levels in unrestricted areas were not being exceeded.

14. Storage and Security of Material

All radioactive waste is stored in the Merchants Wool Scouring Company's building which is a restricted area and locked when unattended. It was noted that the door to the building was locked and that the windows were constructed with metal bars to prevent entry. The only key to the building is possessed by Denault. In addition to the above security precautions, the National Dock area is completely fenced in and under a 24 hour guard.

15. Waste Disposal

There has been no disposal of radioactive waste other than the transfer of two drums, one containing 17 mc of S-35, and the other, less than 15 mc total of P-32 and S-35 to Crossroads Marine Disposal Corporation, Boston, Massachusetts. Rasmussen stated that these transfers were made because the waste consisted of animal carcasses.

16. Posting and Labeling

The room in which was stored the radioactive waste was posted with the sign "Caution - Radiation Area" and prescribed radiation symbol. In addition, the room was posted with the sign "Caution - Radioactive Material" and the prescribed radiation symbol. A survey by the inspector revealed no detectable radiation dose rate (less than 0.05 mrad/hr).

Each drum in which was stored radioactive waste was labeled with the sign "Caution - Radioactive Material" and prescribed radiation symbol, and showed the kind, quantity and date of measurement of the quantity of radioactive material each contained. In addition, each drum had attached to it an ICC label showing the surface dose rate measurement and smear result. A survey by the inspector using an end-window GM revealed no detectable dose rate at the surface of the drums (less than 0.05 mrad/hr).

Attached to each concrete shipping container for sea disposal was an aluminum plate bearing the sign "Radioactive Waste - New England Tank Company - Cambridge, Mass." and showing the kind, quantity and date of measurement of the quantity of radioactive material each contained.

17. Personnel Monitoring

Controls for Radiation film badges are reportedly worn by all personnel whenever radioactive material is handled. A review of the film badge records revealed no detectable exposures (less than 10 mrem).

18. Records

Records of procurement, transfers, and personnel monitoring are maintained at the New England Tank Cleaning Company's office at 135 First Street, Cambridge, Massachusetts. Rasmussen stated that his radiation surveys to ensure that they were in compliance with the regulations in Part 20, such as dose rates in unrestricted areas, had not been recorded inasmuch as no detectable dose rate had been observed.

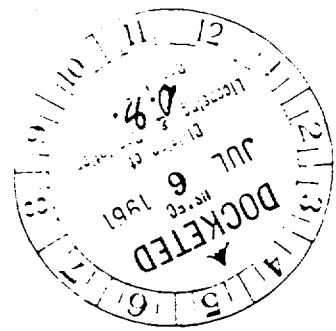
Instrumentation used by the inspector was as follows: one Nuclear Measurements, #5571, GM survey meter, calibrated 5/11/60.



(7)

1777

ITEM # 12



THE ENGLAND TANK CLEANING COMPANY  
1100 K. DONALD  
Treasurer

END/Y

Very truly yours,

We would like to amend our A. E. O. License No. 20-354-1 (160) for disposal of radioactive waste to permit us to retain possession of waste for a period longer than 21 months, as now specified in our license. For reasons of economy it would be advantageous for us to have the period extended from 21 months to 48 months. Our storage facility can readily accommodate the stored material and such extension would in no way increase the hazard to the surrounding neighborhood.

Dear Sir:

United States Atomic Energy Commission  
Washington 25, D.C.  
Attention of Mr. James P. Keenan  
Division of Licensing & Regulations

DOCKET NO. 27-8

June 21, 1961

NEW ENGLAND TANK CLEANING CO.  
SAND BLASTING - VINYL PLASTIC LININGS  
STEAM CLEANING - WATERPROOFING  
GUNITITE  
135 FIRST STREET  
CAMBRIDGE 41, MASS

MAR 16 1961

*H. L. Price*  
~~A. E. Inedicks, General Manager~~  
~~(TRU) William F. Finan, ACHAS~~  
~~R. Lowenstein, Acting~~  
~~H. L. Price, Director~~  
Division of Licensing and Regulation

AMENDMENT NO. 5 TO LICENSE NO. 20-3541-1, NEW ENGLAND TANK CLEANING COMPANY, SOCKET NO. 27-8

L&R:IB:WBC

This is to advise you of the issuance of Amendment No. 5 to License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, renewing that license for a period of two (2) years and authorizing the transfer of licensed waste to AEC designated land burial sites for disposal.

License Condition 9 has been amended to require notification of the Director, Division of Compliance, New York Operations Office, Atomic Energy Commission, as well as the Chief, Isotopes Branch, Division of Licensing and Regulation of their intent to conduct sea disposal operations and the specified information regarding the material to be disposed of at sea, at least 20 days prior to the designated date for disposal.

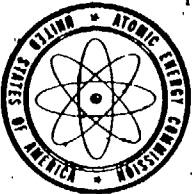
The preamble and Conditions 7 and 10 of the license previously specified sea disposal in the Atlantic Ocean. Since this amendment also authorizes transfer of licensed waste to AEC designated land burial sites, appropriate changes have been made.

Governor John A. Volpe and appropriate Massachusetts State officials have been informed of this licensing action.

Enclosure:  
Copy of Amendment No. 5

bcc: OGC

|           |                        |                       |                            |                         |                         |                           |
|-----------|------------------------|-----------------------|----------------------------|-------------------------|-------------------------|---------------------------|
| OFFICE ▶  | L&R:IB                 | L&R:IB                | L&R:RSE                    | OGC                     | L&R                     | L&R                       |
| SURNAME ▶ | <i>Wool</i><br>Cool:dg | <i>Mason</i><br>Mason | <i>J. Rogers</i><br>Rogers | <i>Parler</i><br>Parler | <i>RLKirk</i><br>RLKirk | <i>HLPrice</i><br>HLPrice |
| DATE ▶    | 2/20/61                | 2/26/61               | 2/28/61                    | 2/28/61                 | 3/1/61                  | 2/ /61                    |



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D. C.

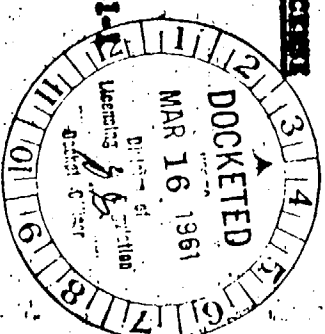
WINDFEST, POWER AND SPECIAL NUCLEAR MATERIAL LICENSE

NEW ENGLAND PAPER CORPATING COMPANY

PERMIT NO. 27-3

LICENSE NO. 20-3541-1  
(653)

AMENDMENT NO. 3



In accordance with your applications dated June 17 and July 21,

1960, License No. 20-3541-1 is hereby amended as follows:

The expiration date is extended from September 30, 1960 to March 31, 1963 and the symbol below the license number is changed from 160 to 653.

Condition 8 is amended to add the following:

B. The licensee may also dispose of solid waste byproduct, sources and special nuclear material by transfer to AEC designated land burial sites. Waste material transferred for land burial need not be packaged in concrete sea disposal containers as described in the application, but shall be packaged in accordance with Condition 6 of this license.

Condition 9 is amended to read as follows:

9. The licensee shall notify the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, Washington 25, D. C., and the Director, Division of Compliance, New York Operations Office, Atomic Energy Commission, 376 Hudson Street, New York 14, New York, by letter deposited in the United States

IAR  
HLP/ace

IAR  
KIK/ik  
3-2-61

OCC  
Parler  
2/25/61

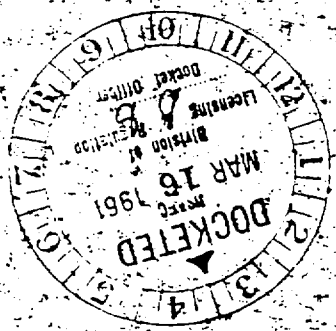
IAR/RSB  
Rogers  
2/1/61

IAR:IB  
Mason  
2/27/61

IAR:IB  
Cool:dg  
2/22/61

MAR 16 1961

Date of Issuance:



Acting Director  
Division of Licensing & Regulation

R. Lowenstein

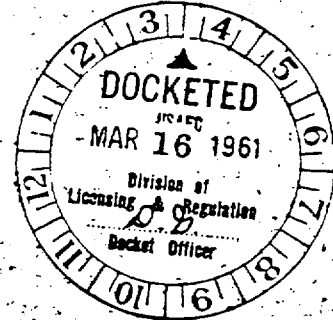
FOR THE ATOMIC ENERGY COMMISSION

This amendment is effective as of the date of issuance.  
partial.  
transfer licensed waste material to AEC designated sites for land  
7 and 10 thereof in order to reflect the additional authorization to  
to sea disposal in the Atlantic Ocean from the preamble and conditions  
license No. 20-1561-1 is further amended to delete specific references  
and the total amount of special nuclear material in grams.  
in milligrams, the total amount of source material in pounds  
number of containers, the total activity of byproduct material  
each sea disposal, of the proposed date for disposal, the total  
will properly stamped and addressed, at least 30 days prior to



MAR 18 1961

ISR:TB:WUC  
Docket No. 27-8



New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. E. N. Donahut, Jr.

Gentlemen:

Transmitted herewith is Amendment No. 3 to your License No. 20-3541-1 issued pursuant to your letters dated June 17 and July 21, 1960. This amendment renews the license for a period of two (2) years and authorizes the transfer of licensed waste to AEC designated land burial sites for disposal.

License Condition 9 has been amended to require notification of the Director, Division of Compliance, New York Operations Office, Atomic Energy Commission, as well as the Chief, Isotopes Branch, Division of Licensing and Regulation of your intent to conduct sea disposal operations and the specified information regarding the material to be disposed of at sea, at least 20 days prior to the designated date for disposal.

If you have any questions regarding this amendment you should communicate with this office.

Sincerely yours,

R. Lowenstein

Director

Acting

Division of Licensing and Regulation

bcc: OGC

Enclosure:  
As stated above

|           |                 |         |                     |        |          |
|-----------|-----------------|---------|---------------------|--------|----------|
| OFFICE ▶  | ISR:TB          | ISR:TB  | ISR:RSE             | ISR    | ISR:     |
| SURNAME ▶ | Wool<br>Cool:dg | Mason   | J. Rogers<br>Rogers | Parler | HL Price |
| DATE ▶    | 2/20/61         | 2/26/61 | 2/27/61             | 3/1/61 | 2/1/61   |

| DATE    | SURNAME  | OFFICE  |
|---------|----------|---------|
| 2/20/61 | COOL:ds  | 1&R:IB  |
| 21/61   | MASON    | 1&R:IB  |
| 21/7/61 | ROBERTS  | 1&R:RSB |
| 2/28/61 | PARLER   | OGC     |
| 3/1/61  | RICKITZ  | 1&R     |
| 21/61   | HILF:Jce | 1&R     |

As stated above  
Attachments:

Division of Licensing and Regulation  
Director  
G. W. Morgan, OHS, w/encl. #1

OGC (1)

bcc: Congressional Liaison (2)

R. Lowenstein

Sincerely yours,

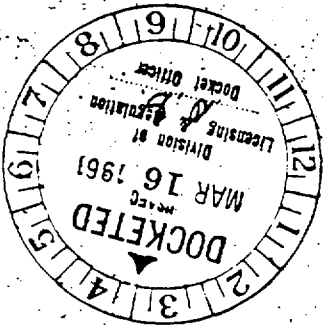
Copies of this letter and attachment are being sent to Mr. Alfred L. Frachette, Commissioner of Public Health, Mr. John A. Callahan, Commissioner, Department of Labor and Industries and Mr. Raymond I. Rigney, Coordinator of Atomic Development Commission on Atomic Energy.

License condition 9 has been amended to require notification of the Director, Division of Compliance, New York Operations Office, Atomic Energy Commission, as well as the Chief, Isotopes Branch, Division of Licensing and Regulation of their intent to conduct sea disposal operations and the specified information regarding the material to be disposed of at sea, at least 30 days prior to the designated date for disposal.

Transmitted herewith is Amendment No. 5 to license No. 20-1541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts. This amendment renurs the license for a period of two (2) years and authorizes the transfer of licensed waste material to AEC designated land burial sites for disposal.

Best Governor Beljea

Honorable John A. Beljea  
Governor of Massachusetts  
Boston, Massachusetts



1&R:IB:MSC  
Docket No. 27-8

MAR 16 1961

MAR 16 1961

LAR:EB:WBC  
Docket No. 27-3

October 21, 1960

New England Tank Cleaning Company  
135 First Street  
Cambridge 61, Massachusetts

Attention: Mr. E. W. Donault, Jr.

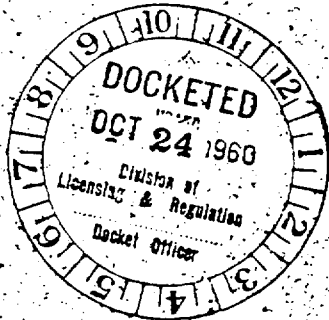
Gentlemen:

Reference is made to your application dated June 17, 1960, which requested renewal of License No. 20-3541-1 and to your letter dated July 21, 1960 which requested the amendment of that license to authorize the transfer of waste to AEC designated sites for land burial.

This is to confirm the matter discussed during your telephone conversation with Mr. Walter Cool on October 21, 1960. Since your application for renewal was received more than thirty (30) days prior to the expiration of the license, pursuant to Section 20.33(b), 10 CFR 20, the license will not expire until the renewal application has been finally determined by the Commission.

You will be advised when further action is taken on this matter.

Sincerely yours,



Cecil R. Buchanan, Assistant Chief  
Isotopes Branch  
Division of Licensing and Regulation

cc: Division of Compliance, NYOO

|        |                       |          |            |  |  |
|--------|-----------------------|----------|------------|--|--|
| OFFICE | Isotopes              | Isotopes |            |  |  |
| NAME   | <i>WBC</i><br>Cool:dg | Brinkman | <i>CRB</i> |  |  |
| DATE   | 10/21/60              | 10/21/60 |            |  |  |

UNITED STATES GOVERNMENT

# Memorandum

TO : Robert Lowenstein, Acting Director      DATE: AUG 4 1961  
Division of Licensing and Regulation, HQ

FROM : Robert W. Kirkman, Director  
New York Compliance Area *RWK*

SUBJECT: TRANSMITTAL OF LICENSE COMPLIANCE INSPECTION REPORT -  
10 CFR 30, 40, AND 70

CO-NY:PRN

Transmitted herewith is the following reinspection report involving noncompliance:

NEW ENGLAND TANK CLEANING COMPANY  
135 First Street  
Cambridge 41, Massachusetts

License No. 20-3541-1 w/amends. 1 thru 5

The following item of noncompliance was noted during the course of this inspection:

Condition 10

- in that byproduct material received by the licensee on June 15, 1959 has been in his possession for a period exceeding 21 months. (See paragraph 28 of report details.)

The above item of noncompliance was discussed with Mr. Elliot Denault, Jr., President of the Company, and Dr. Norman C. Rasmussen, Radiological Safety Officer. Denault stated that he would request of DL&R that their license be amended to allow possession of waste for a longer period of time.

Inasmuch as the item of noncompliance does not constitute a hazard, no follow-up inspection will be scheduled.

ITEM # 73

A/73 (15)

AUG 4 1961

We recommend that a letter be sent to Mr. Elliot Denault, Jr., President, with a copy to Dr. Norman C. Rasmussen, requiring that the item of noncompliance be corrected.

Enclosure:  
1 cy of Rpt.

cc: Div of CO, HQ.  
w/orig of Rpt.

22  
=

LR:KH

NOV 30 1961

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Elliot Densuit, Jr., President

Gentlemen:

This refers to the inspection conducted on June 8, 1961, of your activities authorized under AEC Byproduct Material License No. 20-3541-1.

It appears that certain of your activities were not conducted in full compliance with a condition of your license in that byproduct material was not, in all cases, disposed of within 21 months from the date of possession of this material in violation of License Condition No. 10.

Pursuant to the provisions of Section 2.201(a), "Notice of violation," of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, you are requested to notify this office, within thirty days of your receipt of this notice, of the corrective steps taken or to be instituted in achieving correction and preventing further violations and the date when such correction has been or will be achieved.

Our August 31, 1961, letter in response to your application dated June 21, 1961, denied your request to retain licensed waste in storage for a period of up to 48 months.

Very truly yours,

bcc: Compliance Division, HQ  
Compliance Division, NYOO  
Public Document Room

Ebar R. Price  
Assistant Director  
Division of Licensing  
and Regulation

Enclosure:  
10 CFR 2

REGISTERED MAIL  
RETURN RECEIPT REQUESTED

|           |  |            |          |  |
|-----------|--|------------|----------|--|
| OFFICE ▶  |  | LR:EB      | LR       |  |
| SURNAME ▶ |  | RH:hgs:REC | ER:Price |  |
| DATE ▶    |  | 11-28-61   |          |  |

NEW ENGLAND TANK CLEANING COMPANY  
135 First Street  
Cambridge 41, Massachusetts

June 8, 1961

3. Type of inspection **Reinspection**

4. 10 CFR Part(s) applicable

20 - 30 - 40 - 70

5. License number(s), issue and expiration dates, scope and conditions (including amendments)

| <u>License No.</u> | <u>Date</u> | <u>Exp. Date</u> |
|--------------------|-------------|------------------|
| 20-3541-1          | 10/9/58     | 9/30/60          |
| Amend. 1           | 12/11/58    | 9/30/60          |
| Amend. 2           | 12/11/58    | 9/30/60          |
| Amend. 3           | 12/31/58    | 9/30/60          |
| Amend. 4           | 4/23/59     | 9/30/60          |
| Amend. 5           | 3/16/61     | 3/31/63          |

(Scope and Conditions - See Report Details.)

6. Inspection findings (and items of noncompliance)

The New England Tank Cleaning Company is a corporation solely owned by the Denault family. Although licensed to dispose of radioactive waste at sea, no such disposals have been made to date. The radioactive waste received by the company is being placed in storage awaiting disposal. Dr. Norman C. Rasmussen, Radiological Safety Officer, is responsible for radiological safety and has full authority where decisions involving radiological safety are concerned. All handling of radioactive materials is performed under his direct supervision. Facilities, instrumentation, radiation safety precautions and procedures, personnel monitoring, survey procurement, waste disposal, posting and labeling, and record keeping procedures are adequate. The only item of noncompliance observed or noted during the course of the inspection is as set out below:

Condition 10

- in that byproduct material received by the licensee on June 15, 1959 has been in his possession for a period exceeding 21 months. (See paragraph 28 of report details.)

7. Date of last previous inspection

July 21, 1960

8. Is "Company Confidential" information contained in this report? Yes  No   
(Specify page(s) and paragraph(s))

DISTRIBUTION:

Orig - CO-HQ  
1 cy - DL&R  
2 cys - CO-NY

Paul R. Nelson  
(Inspector)

Approved by:

Robert W. Kirkman, Director  
New York Compliance Area  
(Operations office)

August 1, 1961  
(Date report prepared)

If additional space is required for any numbered item above, the continuation may be extended to the reverse of this form using foot to format, leaving sufficient margin at top for binding, identifying each item by number and noting "Continued" on the face of form appropriate item.

16-72314-2 U. S. GOVERNMENT PRINTING OFFICE

RECOMMENDATIONS SHOULD BE SET FORTH IN A SEPARATE COVERING MEMORANDUM

LR:EB  
27-8

JAN 26 1962

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Elliot Demult, Jr., President

Gentlemen:

Reference is made to our letter of November 30, 1961, pointing out a deficiency in your AEC licensed program. We requested you to reply within thirty days specifying the action you had taken or planned to take to correct this deficiency and the date such correction and full compliance had been or will have been achieved. A copy of this letter is enclosed.

Our November 30 letter constituted a notice of violation as required by the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, Section 2.201, "Notice of violation." You are requested to reply within fifteen (15) days of your receipt of this notice specifying the action which has been taken or will be taken to correct the deficiency we brought to your attention in our letter of November 30 and the date such correction and full compliance has been or will be achieved. If your reply is not received within the time specified, or if your reply is not satisfactory, further action may be required under Subpart B of the AEC's "Rules of Practice."

BCC: Compliance Division, HQ  
Compliance Division, I  
Public Document Room

Very truly yours,

Eber R. Price  
Assistant Director  
Division of Licensing  
and Regulation

**Enclosures:**

1. Copy of ltr 11-30-61
2. 10 CFR 2

**REGISTERED MAIL**  
**RETURNS RECEIPT REQUESTED**

|           |                     |                      |  |  |  |  |
|-----------|---------------------|----------------------|--|--|--|--|
| OFFICE ▶  | LR:EB<br>RH:hgs:REC | LR<br>EERice<br>1/26 |  |  |  |  |
| SURNAME ▶ | PK REC              |                      |  |  |  |  |
| DATE ▶    | 1-25-62             |                      |  |  |  |  |



# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

January 25, 1962

United States Atomic Energy Commission  
Washington 25, D.C.

Attention of Mr. Eber R. Price, Assistant Director  
Division of Licensing and Regulation

Re: LR:RH


Gentlemen:

In reply to your letter dated Nov. 30, 1961, we have packaged for disposal items referred to in your letter.

It is not possible to make sea disposal from a barge at a distance of over 200 miles from Boston, Mass., during the winter months. Immediate disposal is contemplated weather permitting.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

  
Eliot W. Dehaat  
Treasurer

EWD/k

LR:EB  
27-6

FEB 9 1962

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Elliot W. Donnell  
Treasurer

Gentlemen:

Reference is made to your letter of January 23, 1962, informing us of the steps taken by you to correct the deficiency in your AEC licensed program which we brought to your attention in our letter of November 30, 1961. Your letter, however, is not satisfactorily responsive in some respects, in that you did not specify the date when correction of this alleged violation and full compliance will be achieved. In addition, your letter does not indicate the corrective action you will take to assure that further violations of this type will not recur.

Pursuant to the provisions of Section 2.201(a), "Notice of violation," of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, you are requested to notify this office, within fifteen (15) days of your receipt of this notice, of the corrective steps taken or to be instituted in achieving correction of the alleged violation described in our November 30, 1961 letter, and preventing further violations and the date when such correction has been or will be achieved. A copy of our November 30 letter is enclosed.

Please disregard our letter of January 26, 1962, requesting that you reply within fifteen days regarding our November 30, 1961 letter. This letter was sent prior to the receipt of your January 23 letter.

Very truly yours,

BCC: Compliance Division, HQ)  
Compliance Division, I ) w/cpy ltr 1/25/62  
Public Document Room )

Eber S. Price  
Assistant Director  
Division of Licensing  
and Regulation

Enclosures

|           |   |                              |               |  |
|-----------|---|------------------------------|---------------|--|
| OFFICE ▶  | REGISTERED MAIL<br>RETURN RECEIPT REQUESTED | LR:EB<br>RH: lrm: REC<br>REC | LR<br>ERP/ice |  |
| SURNAME ▶ |   | 2-7-62                       | 2/9/62        |  |
| DATE ▶    |   |                              |               |  |

# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

February 12, 1962

United States Atomic Energy Commission  
Washington 25, D.C.

Attention of Mr. Eber R. Price, Asst. Director Division of Licensing  
and Regulation

Reference: LR:RH 27-8

Gentlemen:

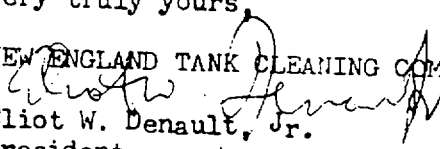
In reply to your letter of February 9, 1962, we plan to dispose of material in the first week of June, 1962. In addition, during the same period of time all other waste nearing date of disposal will be disposed of as required.

Subsequently, during each June we shall check and remove all waste that is due for disposal, or that will be due for disposal during the following period.

Thank you for your letter of February 9, 1962.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

  
Eliot W. Denault, Jr.  
President

EWD/k

LR:RH  
27-8

FEB 28 1962

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Eliot W. Demmitt, Jr.  
President

Gentlemen:

Reference is made to your letters of January 25 and February 12, 1962, informing us that you will correct the deficiency in your AEC licensed program which we brought to your attention in our letters of November 30, 1961 and February 9, 1962.

The corrective action taken by you regarding the item described in our November 30 letter will be reviewed during the next inspection of your facilities.

Your cooperation with us is appreciated.

Very truly yours,

Eber R. Price  
Assistant Director  
Division of Licensing  
and Regulation

bcc: Compliance Division, HQ )  
Compliance Division, I )w/cpy ltr 2/12/62  
Public Document Room )

|           |              |          |  |  |  |  |
|-----------|--------------|----------|--|--|--|--|
| OFFICE ▶  | LR:EB        | LR:      |  |  |  |  |
| SURNAME ▶ | RH: lrm: REC | ER Price |  |  |  |  |
| DATE ▶    | 2-19-62      |          |  |  |  |  |

PART 30, 40, 70 INSPECTION

NEW ENGLAND TANK CLEANING COMPANY  
135 First Street  
Cambridge 41, Massachusetts

Date of Inspection: June 8, 1961 (Announced)

Persons Accompanying Inspector:

None. Massachusetts Division of Occupational Hygiene  
was notified.

Persons Contacted:

Dr. Normal C. Rasmussen, Radiological Safety Officer

DETAILS

Inspection History

9. On December 16, 1958, an initial inspection was made by this office of the activities being conducted under License 20-3541-1 w/amendments 1 and 2, which authorized the company to receive, possess, package and dispose of byproduct material in the Atlantic Ocean. The inspection revealed that no radioactive waste had been received, and the report was forwarded to Inspection Headquarters under memorandum of December 31, 1958 with no items of noncompliance noted.
0. On July 21, 1960, a reinspection was made of the activities being conducted under License 20-3541-1 w/amendments 1, 2, 3 and 4. No changes were found in their program as initially reported, with the exception that a small amount of radioactive waste had been collected and was in storage awaiting disposal. No sea disposals had been made. The report was forwarded to the Division of Licensing and Regulation on August 12, 1960, noting the following item of noncompliance:
  - 20.401 "Records of surveys, radiation monitoring and disposal"
    - (c) - in that records of radiation surveys were not maintained.

On October 5, 1960, DL&R informed the licensee of the item of noncompliance and stated that their survey records would be reviewed during the next inspection of their facilities.

11. On June 8, 1961, a reinspection, as now being reported, was made of the activities being conducted under License 20-3541-1 w/amendments 1, 2, 3, 4, and 5. No change was found in their program as small amounts of byproduct material waste are still being collected and stored, and no sea disposals are being made.

#### Organization and Administration

12. There has been no change in the organization and administration of the New England Tank Cleaning Company since the previous inspection conducted on July 21, 1960. The company, which is solely owned by the Denault family, is engaged primarily in the cleaning of petroleum tanks.
13. Mr. Elliot Denault, Jr., President of the Company, is a graduate of Yale, and while there, studied industrial administration. He attended the Maine Maritime Academy, was commissioned as Ensign and holds Third Mate papers in the Merchant Marine. His training in radiological safety consists of a course in radiation taken at MIT during the winter of 1957. His duties, with respect to radioactive material handling, consist of directing the activities of those engaged in receiving, packaging and transferring of the radioactive waste to their storage facility.
4. Dr. Norman C. Rasmussen, Consultant and RSO, obtained his Ph.D. from MIT doing studies in nuclear measurements. He worked for the MIT radioactivity center from 1952 to 1957 under Dr. Evans. At present, he is Assistant Professor of Nuclear Engineering at MIT and is located at the MIT reactor. Rasmussen's duties, with respect to License 20-3541-1, consist of directly supervising the activities being conducted under this license.
5. No radiation safety committee exists. Rasmussen as RSO reportedly has full responsibility for decisions involving the safety of the operation.

#### Facilities and Uses of Byproduct Material

- . There has been no change in facilities or uses since the previous inspection of July 21, 1960. None of the radioactive wastes received to date has been disposed of at sea. All such waste, with the exception of two transfers to Crossroads Marine Disposal Corporation, Boston, Massachusetts (see paragraph 24), is stored in the Merchants Wool Scouring Company's building located within the National Dock area, Boston, Massachusetts. This building, purchased by the Denaults specifically for receiving, packaging and disposing of radioactive wastes, is a large frame and brick structure (65,000 square feet) and is equipped with a sprinkling system for protection against fire. Rasmussen reported that the handling of radioactive waste had consisted merely of transferring the radioactive waste containers to their storage location. He added that none of the waste containers received by them since July 21, 1960 had been encased by them in concrete for sea disposal.

17. The total quantity of licensed material received and stored since the previous inspection of July 21, 1960 is as follows:

Special Nuclear Material - None

Source Material - less than 269 uc

Byproduct Material - 69.74 mc

The above material was received in 21 drums of 33 gallons each, and 39 drums of 55 gallons each. Rasmussen stated that 36 of the 39 drums (55 gallons) were received filled with concrete into which the waste material has been mixed.

The total quantity of byproduct, source, and special nuclear radioactive waste in the licensee's possession was as follows:

| <u>Byproduct</u>                              | <u>Source</u>          | <u>Special Nuclear</u> |
|---|------------------------|------------------------|
| 32 drums<br>(33 gal. each)<br>38.488 mc total | less than 237 uc total | None                   |
| 8 drums<br>(7-1/2 gal. each)<br>10 c total    | None                   | None                   |
| 39 drums<br>(55 gal. each)<br>51.253 mc total | 32 uc total            | None                   |
| 5 concrete blocks<br>less than 27 mc total    | None                   | None                   |

It was noted by the inspector that four of the concrete blocks were approximately 5' x 5' x 5' and the fifth was approximately 3' x 3' x 9'. The minimum specific gravity for the concrete blocks as reported by Rasmussen is 1.2.

License No. 20-3541-1 w/amendments 1, 2, 3, 4, and 5 authorizes New England Tank Cleaning Company to receive, possess and dispose of byproduct, source, and special nuclear material in the Atlantic Ocean or transfer material to AEC designated land burial sites. Condition 1 of the license sets forth the possession limit of 1000 c of byproduct material. Condition 6 of the license sets forth a limit of 2.7 c per container except for polonium, which is limited to 2 c. Condition 11 sets forth the possession limit of 50 pounds of source material and 5 grams of special nuclear material.

### Instrumentation and Calibration Procedures

20. The licensee possesses a Juno Model SRJ3 survey meter having a range of 0 - 5 rad/hr and a Universal Atomics Model 700 GM survey meter having a range of 0 - 50 mrad/hr. These instruments, as reported by Rasmussen, are calibrated yearly by the MIT Radiation Protection Group.

### Radiological Safety Precautions and Procedures

21. Rasmussen stated that all personnel associated with radioactive waste handling had been instructed by himself or Mr. J. B. Bulkley, Safety Officer at the MIT cyclotron in radiological health and safety as well as the applicable provisions of 10 CFR 20. Written instructions were available covering handling procedures, protective apparel, contamination control, personnel monitoring, emergencies, personnel decontamination and vehicular accidents. In addition, it was noted that their license and 10 CFR 20 were readily available.
22. Each radioactive waste container received by New England Tank Cleaning Company, as reported by Rasmussen, is surveyed by himself to determine its radiation dose rate and smeared to detect loose contamination. In addition, he stated that he made radiation dose rate surveys at the radioactive waste storage area to ensure that posting requirements were being met and the permissible radiation levels in unrestricted areas were not being exceeded.

### Storage and Security of Material

23. All radioactive waste is still being stored in the Merchants Wool Scouring Company's building, which is a restricted area and locked when unattended. It was noted by the inspector that the door to the building was locked, and that the windows were constructed with metal bars to prevent entry. Denault, Jr. possesses the only key to the building.

### Waste Disposal

24. The only disposal of radioactive waste since the previous inspection on July 21, 1960 has been the transfer of four drums containing 102 mc total of P-32 and S-35 to Crossroads Marine Disposal Corporation, Boston, Massachusetts.



### Posting and Labeling

25. The room in which was stored the radioactive waste was posted with signs worded "Caution - Radiation Area" and "Caution - Radioactive Material". All signs displayed the prescribed radiation symbol. A survey by the inspector revealed radiation levels of less than 0.05 mrad/hr at the walls adjacent to the unrestricted areas. In addition, the survey revealed radiation levels neither exceeding 200 mrem/hr at the surface of any waste container nor exceeding 10 mrem/hr at one meter from any waste container.
26. Each drum in which was stored radioactive waste was labeled with a sign worded "Caution - Radioactive Material", displaying the prescribed radiation symbol, and showing the kind, quantity and date of measurement of the quantity of radioactive material each contained. In addition, each drum had attached to it an ICC label showing the surface dose rate measurement and smear result.
27. As noted during the previous inspection, attached to each concrete shipping container for sea disposal is a metal plate bearing a sign "Radioactive Waste - New England Tank Cleaning Company, Cambridge, Massachusetts" and showing the kind, quantity and date of measurement of the quantity of radioactive material each contained.
28. It was noted by the inspector that several of the concrete blocks were dated June 15, 1959. Rasmussen stated that this was the date when the New England Tank Cleaning Company took possession of the byproduct material waste. Condition 10 of the license states: "All byproduct material shall be disposed of at sea within 21 months from the date on which the New England Tank Cleaning Company takes possession of such material." Mr. Denault stated that they would request of DL&R that their license be amended to allow possession of waste for longer periods of time.
29. It was noted that Form AEC-3, "Notice to Employees", was so posted as to ensure that it would be seen by employees entering the restricted storage room.

### Personnel Monitoring

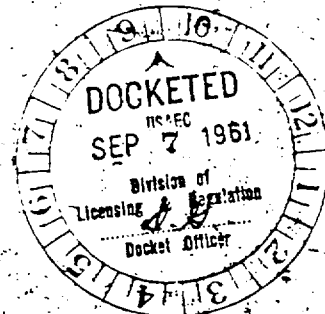
30. Controls for Radiation film badges are reportedly worn by all personnel whenever radioactive material is handled. A review of the film badge records revealed no detectable exposures (less than 10 mrem).

### Records

31. Records of procurement, transfers, radiation surveys, and personnel monitoring are maintained at the New England Tank Cleaning Company's office at 135 First Street, Cambridge, Massachusetts. Records of radiation surveys were specifically reviewed by the inspector. It was noted that smears of waste containers taken by Rasmussen showed no detectable contamination (less than 50 cpm).

AUG 31 1961

L&R:IB:WSC  
Docket No. 27-8



New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. E. W. Demault, Jr.

Gentlemen:

This is in response to your application of June 21, 1961, which requested the extension of the period during which you may retain licensed waste in storage from twenty-one months to forty-eight months.

This application is hereby denied for the reason that the Commission has determined that, in the absence of a special showing justifying an exception, no packaged radioactive waste may be retained for a period in excess of twenty-one months by any firm conducting a waste disposal service. This provision is a uniform requirement on all sea disposal licenses.

Pursuant to the Commission's "Rules of Practice," 10 CFR Part 2, you may request a formal hearing in regard to this matter by filing a written request with the Office of the Secretary, U. S. Atomic Energy Commission, Washington 25, D. C., within thirty (30) days after the issuance of this notice of denial.

FOR THE ATOMIC ENERGY COMMISSION

DISTRIBUTION:

Doc. Rm. (1)  
Formal (1)  
OGC (1)

R. Lowenstein, Acting

Director  
Division of Licensing and Regulation

Enclosures:  
10 CFR 2  
Release No. C-85

| OFFICE ▶  | L&R:IB     | L&R:IB  | L&R:ML   | OGC     | L&R    | L&R            |
|-----------|------------|---------|----------|---------|--------|----------------|
| SURNAME ▶ | WSCool /rw | JRMason | LJohnson | TBC     | RLKirk | Lowenstein/WSC |
| DATE ▶    | 8/24/61    | 8/24/61 | 8/24/61  | 8/29/61 | 8/ /61 | 8/31/61        |

ITEM # 74

A/74 (14)

JR MASON

See attached  
memo, including  
recommendation  
of new special  
consultant, &  
proceed forthwith  
therewith.

Kirk

Suppose  
— Jones

1/28

My intention is to limit  
my expenses to 1st 2 Qs.

"No - but - however no more  
than 6 more  
9th last time I really to pay  
because  
9 and 10 last week and I do not  
see the date cited in the letter

I judge from the documents that  
the lawyers have been working  
with this because there is no  
real basis for demand yet no  
interest in asking questions.  
But then your account again,  
why don't you see an attorney  
attorney?

R. F. FOWENSTEIN

*[Handwritten signature]*

*Yellow Copy*

MR. B:WBC  
Sheet No. X7-8

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. E. W. Bennett, Jr.

Gentlemen:

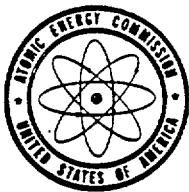
This is in response to your application of June 21, 1961, which requested the extension of the period during which you may retain licensed waste in storage from twenty-one months to forty-eight months.

This application is hereby denied for the reason that the Commission has determined that, in the absence of a special showing justifying an exception, no packaged radioactive waste may be retained for a period in excess of twenty-one months by any firm conducting a waste disposal service. This provision is a uniform requirement on all sea disposal licenses.

However, consideration may be given to an exception to this limitation for the containers now in your possession if you can demonstrate a need for a reasonable extension of time not to exceed six months and upon your providing satisfactory data on the following:

- out*
1. An inventory of the waste in storage indicating:
    - (a) The types of containers present.
    - (b) The number of each type of container.
    - (c) Dates of packaging of the containers.
    - (d) The total amount of activity present.
  2. Specific information regarding the physical condition of the containers assuring that they will remain intact and retain the waste material for the extended period requested.

Turnout to the Commission's "Rules of Practice", 30 CFR Part 2, you may request a formal hearing in regard to this matter by filing a



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D.C.

IN REPLY REFER TO:

L&R:IB:WSC  
Docket No. 27-8

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. E. W. Denault, Jr.

Gentlemen:

This is in response to your application of June 21, 1961, which requested the extension of the period during which you may retain licensed waste in storage from twenty-one months to forty-eight months.

This application is hereby denied for the reason that the Commission has determined that, in the absence of a special showing justifying an exception, no packaged radioactive waste may be retained for a period in excess of twenty-one months by any firm conducting a waste disposal service. This provision is a uniform requirement on all sea disposal licenses.

However, consideration may be given to an exception to this limitation if you can demonstrate a need for <sup>a reasonable</sup> ~~the~~ extension of time <sup>not to exceed six months</sup> and upon your providing satisfactory data on the following:

1. An inventory of the waste in storage indicating:
  - (a) The types of containers present.
  - (b) The number of each type of container.
  - (c) Dates of packaging of the containers.
  - (d) The total amount of activity present.
2. Specific information regarding the physical condition of the containers assuring that they will remain intact and retain the waste material for the extended period requested.

Pursuant to the Commission's "Rules of Practice", 10 CFR Part 2, you may request a formal hearing in regard to this matter by filing a

*for the containers now in your possession*

| DATE    | SURNAME            | OFFICE  |
|---------|--------------------|---------|
| 8/7/61  | COOL:dg            | L&R: IB |
| 8/9/61  | Mason              | L&R: IB |
| 8/5/61  | Johanson           | L&R     |
| 8/18/61 | <i>[Signature]</i> | OCC     |
| 8/1/61  | Riktk              | L&R     |
| 8/1/61  | Blowens            | L&R     |

*8-17-61*

cc: OCC (1)

Enclosures:  
10 CEN 2  
Release No. C-85

Director  
Division of Licensing and Regulation

FOR THE ATOMIC ENERGY COMMISSION

The your information enclosed is a copy of Release No. C-85 which  
 designated interim land burial sites and established a maximum fee  
 of \$21.00 for thirty (30) cubic feet of packaged waste. Specific  
 authority to transfer waste to these sites was included in  
 Amendment No. 5 of your license issued March 16, 1961.

*mt*

written request with the Office of the Secretary, U. S. Atomic Energy  
 Commission, Washington 25, D. C., within thirty (30) days after the  
 issuance of this notice of denial.

New England Tank Cleaning Co.



LAR:DJ:WDC  
Reprint No. 27-3

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. E. W. Densholt, Jr.

Gentlemen:

This is in response to your application of June 21, 1961, which requested the extension of the period during which you may retain licensed waste in storage from twenty-one months to forty-eight months.

This application is hereby denied for the reason that the Commission has determined that, in the absence of a special showing justifying an exception, no packaged radioactive waste may be retained for a period in excess of twenty-one months by any firm conducting a waste disposal service. This provision is a uniform requirement on all gas disposal licenses.

However, consideration may be given to an exception to this limitation if you can demonstrate a need for the extension of time and upon your providing satisfactory data on the following:

1. An inventory of the waste in storage indicating:
  - (a) The types of containers present.
  - (b) The number of each type of container.
  - (c) Dates of packaging of the containers.
  - (d) The total amount of activity present.
2. Specific information regarding the physical condition of the containers assuring that they will remain intact and retain the waste material for the extended period requested.

Pursuant to the Commission's "Rules of Practice", 10 CFR Part 2, you may request a formal hearing in regard to this matter by filing a

SLR:DB:WGC  
Pocket No. 87-8

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. E. W. Bennett, Jr.

Gentlemen:

This is in response to your application of June 21, 1961, which requested the extension of the period during which you may retain licensed waste in storage from twenty-one months to forty-eight months.

This application is hereby denied for the reason that the Commission has determined that, in the absence of a special showing justifying an exemption, no packaged radioactive waste may be retained for a period in excess of twenty-one months by any firm conducting a commercial waste disposal service. This provision is a uniform requirement on all sea disposal licenses. The twenty-one month period is believed to be adequate to dispose of any material received.

However, consideration may be given to an exception to this limitation if you can demonstrate a need for the extension of time and justify it from a safety standpoint.

Pursuant to the Commission's "Rules Of Practice", 10 CFR Part 2, you may request a formal hearing in regard to this matter by filing a written request with the Office of the Secretary, U. S. Atomic Energy Commission, Washington 25, D. C., within thirty (30) days after the issuance of this notice of denial.

Enclosed is a copy of Release No. C-85 which designated interim land burial sites and established a minimum fee of \$21.00 for thirty (30)



LAB:DJ:WBC  
Packet No. 37-3

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. E. W. Dunsitt, Jr.

Gentlemen:

This is in response to your application of June 21, 1961, which requested the extension of the period during which you may retain licensed waste in storage from 21 months to 48 months.

This application is hereby denied, without prejudice to the submission of future applications, for the following reasons. License No. 30-3541-1 is issued for the purpose of authorizing the conduct of waste disposal service. Storage for periods of time sufficiently long to enable the accumulation of an economical disposal shipment were anticipated and a 21 month period was established in the original license to provide for such storage. This provision is placed on all licenses issued to firms conducting commercial waste disposal programs. However, it is not the intent of the license to authorize prolonged or indefinite storage of waste without disposal. Chemical reactions may take place within packaged material resulting in the weakening or failure of waste containers and subsequent leakage.

Further, with the designation of the Interim Land burial sites in May 1960, the Commission established a schedule of fees with a minimum fee of \$21.00 for 30 cubic feet of waste. Specific authorization to transfer waste to these sites was included in Amendment No. 5 of your license issued March 15, 1961. If this volume of waste is not accumulated in any 21 month period, the conduct of the licensed program would appear to be economically unsound.

New England Tank Cleaning Co. -8-

Consideration will be given to another application for an extension of the authorized period of waste storage which is supported by the following detailed information:

1. Specification of the need for the extension.
2. An inventory of the waste in storage indicating:
  - (a) The types of containers present.
  - (b) The number of each type of container.
  - (c) The total amount of activity present.
  - (d) Dates of packaging of the containers.
3. Specific information regarding the physical condition of the containers assuring that they will remain intact and retain the waste material for the extended period requested.

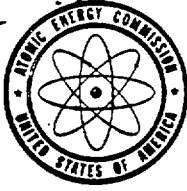
Pursuant to the Commission's "Rules of Practice", 10 CFR 2, you may request a formal hearing in regard to this matter by filing a written request with the Office of the Secretary, U. S. Atomic Energy Commission, Washington 25, D. C., within thirty (30) days after the issuance of this notice of denial.

FOR THE ATOMIC ENERGY COMMISSION

Director  
Division of Licensing and Regulation

Enclosure:  
10 CFR 2

| OFFICE ▶  | L&R:IB         | L&R:IB            | L&R     | OGC | L&R    | L&R       |
|-----------|----------------|-------------------|---------|-----|--------|-----------|
| SURNAME ▶ | WBC<br>Cool:dg | Buchanan<br>Mason | Johnson |     | RIKirk | RLowenste |
| DATE ▶    | 7/26/61        | 7/27/61           | 8/1/61  |     |        |           |



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D.C.

IN REPLY REFER TO:

DLR:IB:WSC  
Docket No. 27-8

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. E. W. Denault, Jr.

Gentlemen:

This is in response to your application of June 21, 1961, which requested the extension of the period during which you may retain licensed waste in storage from twenty-one months to forty-eight months.

This application is hereby denied for the reason that the Commission has determined that, in the absence of a special showing justifying an ~~exception~~ <sup>exception</sup>, no packaged radioactive waste may be retained for a period in excess of twenty-one months by any firm conducting a ~~commercial~~ waste disposal service. This provision is a uniform requirement on all sea disposal licenses. ~~The twenty-one month period is believed to be adequate to dispose of any material received.~~

However, consideration may be given to an exception to this limitation if you can demonstrate a need for the extension of time ~~and justify it from a safety standpoint.~~ *and*

Pursuant to the Commission's "Rules Of Practice", 10 CFR Part 2, you may request a formal hearing in regard to this matter by filing a written request with the Office of the Secretary, U. S. Atomic Energy Commission, Washington 25, D. C., within thirty (30) days after the issuance of this notice of denial.

*For your information*  
Enclosed is a copy of Release No. C-85 which designated interim land burial sites and established a minimum fee of \$21.00 for thirty (30)

New England Tank Cleaning Co.    - 2 -

cubic feet of packaged waste. Specific authority to transfer waste to these sites was included in Amendment No. 5 of your license issued March 16, 1961.

FOR THE ATOMIC ENERGY COMMISSION

Director  
Division of Licensing and Regulation

Enclosures:  
10 CFR 2  
Release No. C-35

save yellow and save  
white to show O & C - Troy on his  
Kutubann

retype as per Troy Connor's notes  
on end of P 3 add

and upon your providing satisfactory data  
on the following:

1. An inventory of the waste in storage indicating:
  - (a) The types of containers present.
  - (b) The number of each type of container.
  - (c) Dates of packaging of the containers.
  - (d) The total amount of activity present.
2. Specific info regarding the physical condition of the containers assuring that they will remain intact and retain the waste material for the extended period requested.

then back to previous P 4 re pursuant to 10 CFR 2



|                        |   |  |
|------------------------|---|--|
| Form AEC-313<br>(5-58) | ATOMIC ENERGY COMMISSION<br><b>APPLICATION FOR BYPRODUCT MATERIAL LICENSE</b> | Form approved.<br>Budget Bureau No. 38-R027.4. |
|------------------------|---|--|

**INSTRUCTIONS.**—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

|   |  |
|---|--|
| 1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.)<br><br><b>New England Tank Cleaning Company<br/>         135 First Street<br/>         Cambridge 41, Mass.</b> | (b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a))<br><br> |
|---|--|

|  |   |
|--|---|
| 2. DEPARTMENT TO USE BYPRODUCT MATERIAL<br><br><b>NONE</b> | 3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)<br><br><b>20-3541-1 Renewal</b> |
|--|---|

|  |   |
|--|---|
| 4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)<br><br><b>NONE</b> | 5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)<br><br><b>Norman Rasmussen<br/><br/>         Joel Bulkeley</b> |
|--|---|

|   |  |
|---|--|
| 6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.)<br><br><b>NONE</b> | (b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLCURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)<br><br> |
|---|--|

7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

**NONE**

MAR 1958  
Law

**ITEM #** 45

**APPROVED**

6195 (14)

L & R

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary)

| B TYPE OF TRAINING   | WHERE TRAINED | DURATION OF TRAINING | ON THE JOB (Circle answer) |    | FORMAL COURSE (Circle answer) |    |
|--|---------------|----------------------|----------------------------|----|-------------------------------|----|
|  |               |                      | Yes                        | No | Yes                           | No |
| a. Principles and practices of radiation protection                                    |               |                      |                            |    |                               |    |
| b. Radioactivity measurement standardization and monitoring techniques and instruments |               |                      |                            |    |                               |    |
| c. Mathematics and calculations basic to the use and measurement of radioactivity      |               |                      |                            |    |                               |    |
| d. Biological effects of radiation   |               |                      |                            |    |                               |    |

9. EXPERIENCE WITH RADIATION (Actual use of radioisotopes or equivalent experience)

| ISOTOPE | MAXIMUM AMOUNT | WHERE EXPERIENCE WAS GAINED | DURATION OF EXPERIENCE | TYPE OF USE |
|---------|----------------|-----------------------------|------------------------|-------------|
|         |                |                             |                        |             |

10. RADIATION DETECTION INSTRUMENTS (Use supplemental sheets if necessary.)

| TYPE OF INSTRUMENTS (include make and model number of each) | NUMBER AVAILABLE | RADIATION DETECTED | SENSITIVITY RANGE (mr/hr) | WINDOW THICKNESS (mg/cm <sup>2</sup> ) | USE (Monitoring, surveying, measuring) |
|---|------------------|--------------------|---------------------------|--|--|
|   |                  |                    |                           |  |  |

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS

13. FACILITIES AND EQUIPMENT Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No

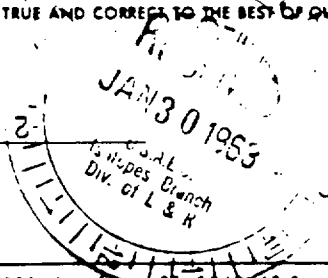
14. RADIATION PROTECTION PROGRAM Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source

15. WASTE DISPOSAL If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. Own trucks used

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

Date January 28, 1963



New England Tank Cleaning Co.  
Applicant named in item 1

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

Treasurer  
Title of certifying official

WARNING.—18 U. S. C., Section 1001; Act of October 3, 1917, 40 Stat. 749, 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.

LR:EH  
Booklet No. 27-2

OCT 16 1962

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Eliot W. Benault, Jr.  
President

Gentlemen:

Thank you for your letter of October 8, 1962 informing us that the deficiency described in our October 5, 1962 letter will be corrected. This matter will be reviewed during the next inspection of your facility.

Your cooperation with us is appreciated.

Sincerely yours,

Eber K. Price  
Assistant Director  
Division of Licensing  
and Regulation

cc: Compliance Div., HQ  
Compliance Div., I  
Public Document Room

|           |          |          |  |  |  |
|-----------|----------|----------|--|--|--|
| OFFICE ▶  | LR:EH    | ER       |  |  |  |
| SURNAME ▶ | ER:EH    | ERP      |  |  |  |
| DATE ▶    | 10/13/62 | 10/16/62 |  |  |  |

# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

October 8, 1962

U. S. Atomic Energy Commission  
Washington 25, D.C.

Attention of Mr. Eber R. Price, Assistant Director  
Division of Licensing & Regulation

Reference: LR:RH 27-8

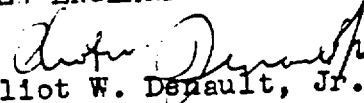
Dear Sir:

In reference to your letter of October 5, 1962, we are currently inactive in the field of receiving, packaging and disposal of radioactive material wastes.

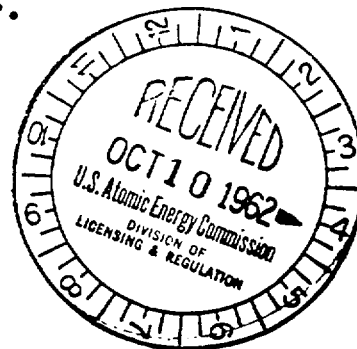
We shall abide by all regulations as set forth under our license #20-3541-1 and 10 CFR 20.201. In the event of future receipts or shipments, Dr. N. C. Rasmussen or Mr. J. B. Bulkley will be present to supervise these activities.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

  
Eliot W. Derault, Jr.  
President

EWD/k



**ACKNOWLEDGED**

OCT 5 1962

LR:EM  
27-8

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Elliot W. Demault, Jr.  
President

Gentlemen:

This refers to the inspection conducted on August 17, 1962 of your activities authorized under AEC Byproduct Material License No. 20-3341-1.

It appears that certain of your activities were not conducted in full compliance with the requirements of the AEC's "Standards for Protection Against Radiation," Part 20, Title 10, Code of Federal Regulations, in that:

1. Contamination surveys of waste containers received from customers were not conducted as required by 10 CFR 20.201, "Surveys."

This notice is sent to you pursuant to the provisions of Section 2.201, "Notice of violation," of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of which is enclosed. This regulation requires that you be notified that you must notify this office in writing within thirty days of your receipt of this notice, admitting or denying the alleged violations, the reasons for the violations if admitted, the corrective steps taken or to be instituted in achieving correction and preventing further violations, and the date when full compliance has been or will be achieved.

In addition, 10 CFR 2.201(b) requires that you be notified that, if an adequate reply is not received within thirty days of your receipt of this letter, an order may be issued to show cause why the license should not be modified, suspended, or revoked or such other action may be taken as may be proper.

New England Tank Steamers  
Company

• 8 •

OCT 5 1962

With regard to Item 1 above, your attention is directed to License Condition No. 6(A)(7) which specifies sanitation limits for containers of radioactive wastes. In your reply to this letter, you are requested to inform us of the steps you will take to assure that your waste containers satisfy the requirements of this license condition.

We understand that during the past year, neither Dr. H. G. Rosenman nor Mr. J. B. Bulley were present to directly supervise your radioactive waste disposal activities as required by your license. In your reply to this letter, you are requested to inform us of the steps you will take to assure that the receipt, packaging and disposal of radioactive material wastes will be conducted under the direct supervision of the individuals authorized by license No. 20-3541-1.

Very truly yours,

Ever R. Price  
Assistant Director  
Division of Licensing  
and Regulation

Enclosures:

1. 10 CFR 20
2. 10 CFR 2

cc: Compliance Div., HQ  
Compliance Div., I  
Public Document Room

|                |                    |                    |  |  |  |
|----------------|--------------------|--------------------|--|--|--|
| OFFICE ▶       | LR:RB              | LR                 |  |  |  |
| RE: ITEM: BOST | EMPT               |                    |  |  |  |
| SURNAME ▶      | <i>[Signature]</i> | <i>[Signature]</i> |  |  |  |
| DATE ▶         | 10-3-62            | 10/4               |  |  |  |

✓ RH

UNITED STATES GOVERNMENT

# Memorandum

SEP 14 1962

TO : R. G. Page, Chief  
Enforcement Branch, DL&R, HQ

DATE:

FROM : Richard S. Cleveland, Radiation Specialist (Review)  
Region I, Division of Compliance *RG*

SUBJECT: TRANSMITTAL OF LICENSE COMPLIANCE INSPECTION REPORT  
10 CFR 20 - 30 - 40 - 70

CO:I:RGG

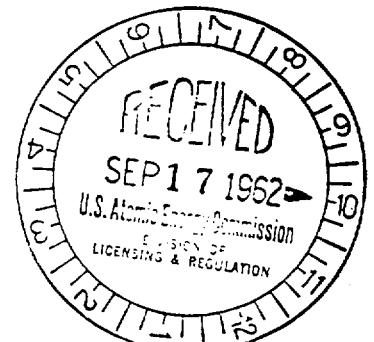
Transmitted herewith is the following inspection report involving noncompliance:

NEW ENGLAND TANK CLEANING COMPANY  
135 First Street  
Cambridge, Massachusetts

License No. 20-3541-1 w/amends. 1 thru 5

The items of noncompliance noted during the course of the inspection were discussed with Mr. Elliot Denault, Jr., President of the Company. Denault stated that, due to the limited activity of the waste disposal program and the concentration of his attention on other company activities, he had not devoted sufficient time to this program to ensure full compliance with all the AEC Regulations. Denault stated he would rectify deficiencies noted and follow through on all subsequent waste activities to ensure full compliance in the future.

As noted in paragraphs 18 and 21 of the report details the licensee did not routinely perform smear tests of the waste containers received from customers. This practice was deemed to be a deviation from license condition 6A(2) which states, "There shall be no radioactive contamination on any exterior surface of the container in excess of 500 d/m/100 sq. cm. alpha and 0.1 mrep/hr beta-gamma radiation," and from 20.201 (b) "Surveys". The licensee could only ascertain compliance with condition 6A(2) by performing a smear test of the waste containers. Similarly by not performing the smears the licensee could not properly evaluate (or determine) potential radiation hazards incident to the handling of waste containers.



It was noted during the inspection that, over the past year, much of the activity of New England Tank has been performed when the RSO, Dr. Rasmussen, was not physically present. Denault stated that, even though this was the case, Rasmussen still, in effect, directly supervised all the waste activity inasmuch as handling procedures were established by him and he was occasionally contacted for consultation on matters relating to the waste disposal activities. Denault continued that he anticipated, in the fall of 1962, New England Tank would discontinue radioactive waste disposal activities; however, he would maintain a valid license in the event future conditions warranted a resumption of disposal activities. Denault assured the inspector that should the scope of the company activities increase over that which is currently performed, he would ensure that Dr. Rasmussen would take a more active part in the company's operations. The practice on the part of the licensee to rely upon occasional consultations with Rasmussen was construed to be in accordance with license condition two (2).

The items of noncompliance do not constitute a serious hazard and no follow-up inspection will be scheduled.

This report is forwarded for appropriate enforcement action.

Enclosure:  
1 cy rpt

cc: CO:HQ  
w/orig of rpt



**COMPLIANCE INSPECTION REPORT**

|   |  |
|---|--|
| 1. Name and address of licensee<br><b>NEW ENGLAND TANK CLEANING COMPANY</b><br>135 First Street<br>Cambridge, Massachusetts | 2. Date of inspection<br><b>August 17, 1962</b>          |
|   | 3. Type of inspection <b>Reinspection</b>                |
|   | 4. 10 CFR Part(s) applicable<br><b>20 - 30 - 40 - 70</b> |

5. License number(s), issue and expiration dates, scope and conditions (including amendments)

| <u>License No.</u> | <u>Date</u> | <u>Exp. Date</u> |
|--------------------|-------------|------------------|
| 20-3541-1          | 10/9/58     | 9/30/60          |
| Amendment 1        | 12/11/58    | 9/30/60          |
| Amendment 2        | 12/11/58    | 9/30/60          |
| Amendment 3        | 12/31/58    | 9/30/60          |
| Amendment 4        | 4/23/59     | 9/30/60          |
| Amendment 5        | 3/16/61     | 3/31/63          |

(See paragraph 11 for scope)

6. Inspection findings (and items of noncompliance)

The New England Tank Cleaning Company, a corporation solely owned by the Denuit family and engaged primarily in the operation of government pipe lines and tank farms, is licensed to dispose of radioactive, byproduct, source and special nuclear material wastes at sea and by transfer to AEC designated land burial sites. No sea disposals have been made to date, and one shipment consisting of two trailer loads of wastes was transferred to ORNL on May 29, 1962. Operations of the company have been limited during the past year and, at the time of the inspection, the licensee possessed less than 50 mc of byproduct material wastes and less than 50 mc of special nuclear material wastes. Although Dr. N. C. Rasmussen is the RSO and required to directly supervise handling of radioactive materials, most of the work is performed in his absence, supervision being exercised during periods of his consultation with the company. The review of the facilities, indicated that, with the exception noted below, the radiological safety program, recordkeeping procedures, and the posting and labeling program were satisfactory. The following item of noncompliance was observed during the course of the inspection:

- 20.201(b) "Surveys" and License Condition 6A(2)  
- in that the licensee did not routinely perform smear tests of waste containers received from customers. (See paragraphs 18 and 21 of report details.)

|  |  |
|--|--|
| 7. Date of last previous inspection<br><b>June 8, 1961</b> | 8. Is "Company Confidential" information contained in this report? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>(Specify page(s) and paragraph(s)) |
|--|--|

DISTRIBUTION:

ORIG - CO:HQ  
1 ey rpt - DLAR, HQ  
2 cys rpt - CO:1

Approved by: Richard G. Gilbert  
(Inspector)  
**Robert W. Kirkman, Director**  
Region I, Division of Compliance  
(Operations office)

**September 12, 1962**  
(Date report prepared)

If additional space is required for any numbered item above, the continuation may be extended to the reverse of this form using foot to format, leaving sufficient margin at top for binding, identifying each item by number and noting "Continued" on the face of form appropriate item.

PART 30, 40, 70 INSPECTION

NEW ENGLAND TANK CLEANING COMPANY  
135 First Street  
Cambridge, Massachusetts

Date of Inspection: August 17, 1962 (Announced)

Persons Accompanying Inspector:

None. State officials notified.

Persons Contacted:

Mr. Eliot W. Denault, Jr., President  
Mr. Eliot W. Denault, Sr., Secretary and Treasurer

DETAILS

Inspection History

9. An initial inspection of License 20-3541-1 with amendments 1 and 2 was performed on December 16, 1958 by P. B. Kievin, Inspector, NYCO. Inasmuch as the licensee had not commenced waste disposal operations and did not possess byproduct material, no items of noncompliance were noted. A subsequent reinspection of the license with amendments 1 through 4 was performed on July 21, 1960 by P. R. Nelson and one item of noncompliance, concerning failure to keep records of surveys per 20.401(c), was noted and pointed out to the licensee in a letter dated October 5, 1960 from J. R. Mason, DL&R.
10. The last reinspection was performed on July 8, 1961 by P. R. Nelson and one item of noncompliance constituting a deviation from License Condition 10 (requiring waste material to be disposed of within 21 months from the date on which New England Tank first takes possession) was noted. DL&R, in a letter dated November 30, 1961 from E. R. Price, pointed out to the licensee the violation of License Condition 10 and required the licensee to notify DL&R within 30 days of corrective action to be taken. This same letter denied the licensee's request to store licensed waste for periods of up to 48 months. Inasmuch as the licensee failed to reply to the November 30, 1961 letter, a subsequent letter, dated January 26, 1962, from E. R. Price requested the licensee to notify DL&R within 15 days of the corrective action to be taken. The licensee in a letter dated January 25, 1962 stated the wastes possessed, were packaged for disposal; however, the letter made mention that because of the winter months, future sea disposals would be dependent upon weather conditions. DL&R, in a letter dated February 9, 1962, notified the licensee that the letter of January 25, 1962 was not satisfactorily responsive in that the licensee failed to specify the date when the corrective action would be achieved. This letter requested the licensee ignore DL&R's letter of January 26, 1962 and requested the licensee to notify DL&R within 15 days of the corrective steps to be taken. On February 12, 1962 the licensee informed DL&R that it anticipated disposing of waste material during the first week of June, 1962. DL&R acknowledged the licensee's letters of January 25 and February 12, 1962 (in a letter dated February 28, 1962) and informed the licensee that corrective action would be reviewed during the next inspection of the facilities. It is to be noted that amendment 5 to License 20-3545-1, issued on March 16, 1961, amended License Condition 8 and authorized the licensee to dispose of radioactive wastes by transfer to AEC designated land burial sites.

### Organization and Administration

11. The New England Tank Cleaning Company is authorized to receive, possess, package and dispose of byproduct, source and special nuclear material in the Atlantic Ocean and by transfer to AEC designated land burial sites. The licensee is limited to the possession of no more than 1000 curies of byproduct material, at any one time and cannot receive possession of more than 50 pounds of source material and 5 grams of special nuclear material during the term of the license. License Condition two (2), as amended by amendments one (1) and three (3), specifies that byproduct, source, and special nuclear material be handled under the direct supervision of Norman C. Rasmussen and/or Joel B. Buckley.
12. There has been no change in the organization and administration of the New England Tank Cleaning Company from that reported in previous inspection reports. The company, solely owned by the Densult family (E. W. Densult, Jr., and Sr.), is engaged primarily in the operation of government pipe lines and tank farms. Their operations are predominantly associated with USAF Bases throughout the world. In the past, most of the waste disposal activities were conducted under the personal supervision of Dr. Norman C. Rasmussen, the consultant to the company and the RSO. Rasmussen is a Professor of Nuclear Engineering at MIT and has been involved in various radioisotope and reactor programs at the institute since 1952. Since the last inspection, the waste disposal activities of New England Tank Cleaning have been limited and Rasmussen's participation in the program has been consulting on an infrequent basis. Joel B. Buckley, specified in license condition 2 as being authorized to supervise waste disposal activities, reportedly has not been participating in the licensee's program since the last inspection. Densult, Jr., whose experience in radiation safety procedures consists of a course in radiation taken at MIT in late 1957 and of periodic on-the-job training under Rasmussen's guidance, has been performing supervision of receipt and disposition of waste materials. Densult stated that the pick-up of wastes from customers would be performed by drivers in his employ. Because of the low level of the wastes, it was not necessary for these persons to have received formal instructions in radiological safety techniques. No radiological safety committee exists; however, Densult stated any problems relating to radiation safety would be referred to Rasmussen.

### Facilities

13. Principal offices of New England Tank are located at 131 First Street, Cambridge 41, Massachusetts and all records pertinent to the program are maintained at this address. Waste materials on hand pending future disposal are stored in the former Merchant's Wool Scouring Company building located in the National Dock Area, Boston, Massachusetts. This frame and brick structure with 65,000 sq. feet of floor space was purchased by Densult specifically for the receiving, packaging and disposing of radioactive wastes; however, because of the limited activities in the waste program, a very small section of the ground floor of the building is currently devoted to this purpose. The remainder of the building is used for the storage of company equipment and vehicles. Limited packaging is required inasmuch as most wastes are received in sealed 30 and 55 gallon drums and are suitable for transfer to ORNL for land burial.

### Instrumentation and Calibration

14. The licensee possesses a Juno Model SRJ-3 survey meter (0 - 5 r/hr) and a Universal Atomic Model 700 GM survey meter (0 - 50 mr/hr). Densult stated these instruments are periodically serviced and calibrated by Rasmussen at the MIT facilities.

#### Material On Hand

15. At the time of the inspection, the licensee had approximately 50 mc waste byproduct material and approximately 50 mc of various packaged wastes containing  $UH_3$  and  $UO_2$ . This material was stored in 89 metal barrels (30 and 55 gallon drums) and in one 75 cubic foot wooden crate. This material was received subsequent to the last inspection and represented wastes obtained from New England Metal Laboratory (July 1961), Leader Iron Works (November 1961), Portsmouth Naval Shipyard (November 1961), Yankee Atomic (November 1961 and December 1961), and Tufts Medical School (July 1962). Denault stated that Tufts represented the only customer from which he currently receives wastes and added that this waste contained tracer quantities of C-14, P-32 and H-3, and in all instances, wastes were packaged by the customer and sent to New England Tank via common carrier. Denault stated that, because of the limited business and the fact that Tufts anticipates disposing of wastes in another manner, commencing in the fall of 1962 he will refrain from conducting further waste disposals. He added, however, that he will maintain a valid license to facilitate the re-entry into the disposal field should future conditions indicate this to be a more profitable venture.

#### Waste Disposal

16. A review of the waste disposal records maintained by Denault indicated that one disposal has been performed since the last inspection and this was made on May 29, 1962. Material disposed of at this time represented the quantities of source and byproduct material possessed in excess of 21 months and for which the licensee was previously cited (as noted in paragraph 10 above). The material transferred at this time was contained in 7 concrete containers of 6 cubic yards each, with a total weight of 29,250 pounds, thirty two 55-gallon, thirty three 32-gallon, eleven 5-gallon drums, and two wooden crates. The barrels and crates constituted an additional 31,675 pounds of waste. The above represented 2 trailer loads of waste which were transferred to ORNL via Associated Transport, Inc., and were transported in enclosed type trailers. Individual containers were itemized on ORNL forms entitled "Radioactive Waste Order." A comparison of the items appearing on the forms versus the licensee's inventory as of the last inspection indicated that all waste material for which the licensee was cited as having possessed in excess of 21 months was transferred to ORNL on that date. It was apparent from discussions with Denault that, because of the limited activity in the waste disposal program, this phase of the company's business received very little attention from both he and his father, Denault, Sr. Most of their attention reportedly is devoted to the more profitable aspects of the company's ventures, and it reportedly was through oversight (rather than intent) that the accumulation of wastes was originally allowed and that the wastes were not disposed of in a more satisfactory manner. As noted previously, the participation of Rasmussen, company consultant and RSO, has been on an infrequent basis and limited to consultations. Denault was urged that, if he anticipates continuance of a waste disposal program, he should encourage more active supervision by Rasmussen over all aspects of the waste disposal program.

#### Radiological Safety Precautions and Procedures

17. Denault stated that all personnel associated with the handling of radioactive wastes had received instructions in radiological health and safety by either Dr. Rasmussen or Mr. J. B. Bulkley. These instructions were given some time ago; however, Denault stated additional instruction had not been required as there had been no turnover of personnel associated with this phase of their operation. In addition to having copies of the license and 10 CFR 20,

written instructions were available covering the handling procedures, protective clothing to be worn, contamination control, personnel and survey monitoring devices and various in-plant and vehicle emergencies. Form AEC-3 "Notice to Employees" was noted to be posted in the area used for storage of wastes. This storage room is considered a restricted area.

18. Densult stated that upon receipt, each radioactive waste container would be surveyed by himself to determine the radiation dose rates at the surface and, if the container appeared to be damaged, a smear would be made to determine the presence of the loose contamination. Densult stated records of the surveys and smears made were recorded on the shipment forms accompanying the shipment. A review of the shipment records (and inventory records) revealed no instances where a smear had been made of waste containers. Densult stated a recent radiation dose rate survey of the radioactive waste storage area had not been made inasmuch as all barrels contained very low levels of activity. He added he was sure radiation levels in unrestricted areas were not being exceeded. During the inspection, the inspector performed a radiation survey of the storage area and of storage containers and the following results were noted:

- (a) A background level of 10 mr/hr was present at a distance of three feet from the area containing the waste disposal containers;
- (b) Containers had surface readings of up to 15 mr/hr.

A review of the labeling of the storage containers revealed that all of them bore an ICC shipping label which showed the surface dose rate measurements and an estimate of the contained activity. Most of the containers were labeled with the standard radiation symbol and the words "Caution - Radioactive Material." An exception noted was Tufts Medical school waste containers which were labeled as containing less than 1 mc of waste material.

19. The radioactive waste containers were stored in the center of a room measuring approximately 30' x 40'. "Caution - Radiation Area" warning signs were posted on several walls within the room and were visible to persons entering the room. Although there was not a barrier to prevent individuals from entering this room, Densult stated the building in which the room was located was always locked and the keys kept in his possession. Densult added that all personnel entering the building had been given verbal warning of the presence of radioactive wastes in this particular room. All outside doors to the building and in particular this storage room, were noted to be locked and all windows to be either boarded or protected by metal bars or screens to prevent unauthorized entry. A survey by the inspector revealed that the radiation levels at outside walls of the storage room, adjacent to the unrestricted areas were less than 0.05 mr/hr.
20. Densult stated that Controls for Radiation film badges were utilized only during the handling of radioactive waste containers. He stated that prior to the occasion for which a badge was needed, he would drive to the Controls for Radiation company (Con-Rad) and obtain the film badges for that particular operation. Upon completion of the job, he would deliver the badges to Con-Rad for development. A review of the film badge records indicated readings of less than 10 mr on all occasions.

#### Records

21. A review of the records of procurement, transfer, radiation surveys and personnel monitoring maintained at the Cambridge office were reviewed during the inspection. Radiation survey records were noted to be somewhat sketchy inasmuch as Densult had not made a comprehensive survey of the radiation levels existing in unrestricted areas. Densult stated that he did not believe it necessary to perform a complete survey of all unrestricted areas under the present conditions because of the low levels of activity contained within the

waste containers. He added, however, that should the scope of air activity increase sufficiently, he would perform a more complete survey of the waste containers and radiation levels in the unrestricted area. As mentioned previously, it was noted that survey records did not include results of smears of waste containers. According to Densult the absence of such records indicated that smears were not made of waste containers received by his company.

# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

118

April 16, 1963

United States Atomic Energy Commission  
Washington 25, D.C.

Attention of Mr. Richard E. Cunningham, Chief,  
Isotopes Branch, Div. Licensing & Regulation

Ref: LR:IB:NB Docket 27-8

Dear Sir:

In reference to telephone conversation of this date with Mr. Bassen, enclosed please find the following information relevant to our request for renewal of AEC license No. 20-3541-1 (C63) Docket 27-8. In addition, we are forwarding copies of all our referenced documents and a copy of this letter to Honorable John F. Collins, Mayor of Boston, Mass.

Our original application for a byproduct material license dated Dec. 19, 1957 remains the same with the exception that the company is no longer using site for disposal listed on Lovell Island, the former Fort Standish installation. In addition, the film badge service listed as being provided by R. S. Van Derr Company is now being obtained from Controls for Radiation, Inc. of Alewife Brook Parkway, Cambridge, Mass.

Our January 17, 1958 letter of procedure to James W. Hitch remains the same with the exception that the referenced storage on Lovell Island has been substituted by use of the facility located in National Dock Yard, Lewis St., East Boston, Mass. In addition, company vehicles as listed on page 4 now comprise a one ton Ford # F35L8E 11463 and a Brockway with flatbed semi-trailer. As Lovell Island is no longer in use, luggers and barges are no longer needed for transfer to Lovell Island, as our waste materials are delivered directly to our East Boston site by our own vehicles.

Our procedures as listed in the Feb. 4, 1958 letter to J. W. Hitch are still in effect and without changes. The April 1, 1958 procedures and limitations as shown in letter to Mr. H. W. Hitch are still in effect with the byproduct materials reference having been amended as shown in Amendment #3 issued Dec. 31, 1958, and Amendment #4 issued April 23, 1959. The balance of this letter remains in effect and is now being adhered to without change.

Our letter of procedure dated June 20, 1958 to Mr. James Mason remains in effect with the exception that the third paragraph of referenced use of Great Brewster Island is no longer being contemplated for use. Again, all our storage is being maintained at our East Boston site.

We wish to reiterate that your packaging instructions as referenced by Appendix A

ITEM # 76

ACKNOWLEDGED

A/76 (15)

# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

-2-

continued

to license #20-3541-1 are still being adhered to as set forth.

All information as referenced in the byproduct materials license #20-3541-1-(160) as originally issued, remain the same with the exception of the above mentioned changes. We still wish to be licensed for the sea disposal of byproduct materials in an area stipulated in section 8-page 5 in an area bounded by the parallels of Latitude 41° 38' N. and 41° 28' N, and by the meridians of Longitude 65° 28' W. and 65° 45' W. at a minimum depth of 1,000 fathoms.

Amendment No. 1 as issued on Dec. 11, 1958 remains the same without change.

Amendment No. 2 as issued on Dec. 11, 1958 requesting storage of materials in National Dock Yard, East Boston, Mass. remains the same without change.

Amendment No. 3 issued Dec. 31, 1958 remains the same without change.

Amendment No. 4 issued April 23, 1959 remains the same without change.

Amendment No. 5 issued on March 16, 1961 remains the same without change.

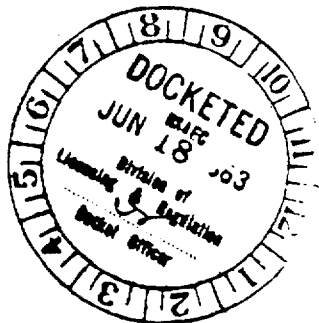
Hoping that this clarifies our application for renewal of our ABC license No. 20-3541-1 (C63).

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

*Eliot W. Denault, Jr.*  
Eliot W. Denault, Jr. President

ED/k





UNITED STATES GOVERNMENT

# Memorandum

*Supp*

TO : Files

DATE: April 15, 1963

FROM : Nathan Bassin, Isotopes Branch  
Division of Licensing and Regulation

SUBJECT: TELEPHONE CALL TO MR. ELIOT W. DENAULT, SR., NEW ENGLAND  
CLEANING COMPANY, DOCKET NO. 27-8

LR:IB:NB

I called in reference to the letters which we had previously written requesting that New England Tank Cleaning Company submit a list of those documents previously submitted which should be considered in renewal of the license and to point out that a set of these documents must be provided to the Mayor. Mr. Denault, Sr., had not been handling this particular program but stated that he would inform Mr. Denault, Jr., of our requirement that they provide appropriate information to us and the City of Boston.

LA:IB:EB  
Socket No. 17-8

APR 12 1963

The Commonwealth of Massachusetts  
Department of Labor and Industries  
Division of Industrial Safety  
State House  
Boston 33, Massachusetts

Attention: Mr. Thomas F. Kelly, Director

Gentlemen:

This is in reference to your letter dated April 3, 1963, in regard to an application which you received from New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, for renewal of its License No. 20-3541-1.

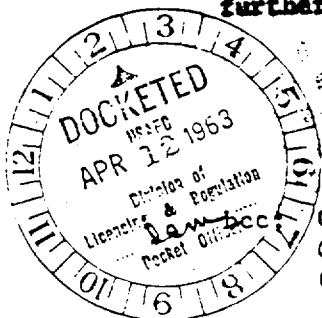
The Commission's "Rules of Practice", 10 CFR 2, a copy of which is enclosed, requires that an applicant for a license to receive waste radioactive material from other persons file a copy of the application with the chief executive of the municipality in which the facility is located. The Atomic Energy Commission then sends a copy of the application to the Governor of the State. It has been our practice in the past to provide information copies of applications to the Commissioner of the Department of Labor and Industries, the Coordinator of Atomic Development Commission on Atomic Energy, and the Commissioner of Public Health.

If any comment on the application is desired by the Commission, we have in the past requested them by letter to the Governor. If we may be of further help to you in the matter, please contact us.

Sincerely yours,

Original Signed by  
Richard E. Cunningham

Richard E. Cunningham  
Chief, Isotopes Branch  
Division of Licensing & Regulation



Cong. Lia. (2)  
G. W. Morgan, RS  
OGC

Enclosure:

|                 |            |              |  |  |
|-----------------|------------|--------------|--|--|
| As stated above | IR:IB      | IR:IB        |  |  |
| OFFICE ▶        | IR:IB      | IR:IB        |  |  |
| SURNAME ▶       | MBassin:cs | RECunningham |  |  |
| DATE ▶          | 4/10/63    | 4/12/63      |  |  |

# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

April 4, 1963

United States Atomic Energy Commission  
Washington 25, D.C.

Ref: LR:IB:NB Docket No. 27-8

Attention of Mr. Richard E. Cunningham  
Chief, Isotopes Branch Div. Licensing & Regulation.

Dear Sir:

In reference to our telephone conversation of this date, and our application for renewal of our License AEC 20-3541-1 (C63), we wish to notify you that as of this date we have forwarded to the Mayor of the City of Boston, Mass., the following documents.

Copy of application for renewal of license AEC 20-3541-1 (C63).

Copy of license AEC 20-3541-1 (C63)

Copy of Amendment No. 1 to above license. (Amending packaging of material to include Joel Bulkley as well as N. Rasmussen as Supervisors of packaging.)

Copy of Amendment No. 2 to above license. ( Authorization for N.E. Tank Cleaning to store and package material for sea disposal in licensee's warehouse in National Dock Yard, Lewis St., East Boston, Mass.)

Copy of Amendment No. 3 to above license. (Authorization for licensee to receive, possess, package and dispose of special nuclear material in the Atlantic Ocean, etc.)

Copy of Amendment No. 4 to above license. ( Transportation of AEC licensed material will be subject to ICC, U.S. Coast Guard and other U.S. Government Agencies regulations.)

Copy of Amendment No. 5 to above license. ( Extension of expiration date of license, and authorization to dispose of nuclear material and byproducts by transfer to AEC designated land burial sites, etc.)

We also wish to emphasize that we still wish to retain our license for sea disposal as per Amendment No. 2 issued on Dec. 11, 1958. All documents listed above are part of our request for renewal of our license. We also wish to note that the location indicated as licensee's warehouse in National Dock yard, Lewis Street, East Boston, Mass. on Amendment #2 is the same area noted as Mill & Webster Streets, East Boston, Mass. Item (b) on our application for renewal of license

TR Cambridge 6-7300

# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

-2-

Mill and Webster Streets are a part of the National Dock Yard which fronts on Lewis Street, East Boston, and our facility which is 5-7 Mill Street at corner of Webster Street, is also part of area known as National Dock Yard. Therefore, as per our referenced conversation via telephone today, we are omitting items 1-through 6 of your letter as there is no change of address.

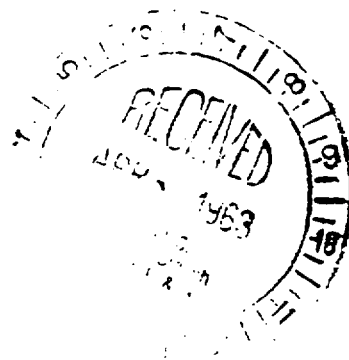
Hoping that this satisfies the requirements for a request for renewal of our license.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

*Elliot W. Denault, Jr.*  
Elliot W. Denault, Jr.  
President

EWD/k



APR 15 1963

*lane*



The Commonwealth of Massachusetts  
 Department of Labor and Industries  
 Division of Industrial Safety  
 State House, Boston 33

01  
 71

April 3, 1963

Mr. Nathan Bassin  
 Isotopes Branch  
 Division of Licensing and Regulations  
 United States Atomic Energy Commission  
 Washington 25, D.C.

Reference: LR:LB  
 N.B. Docket No. 27-8

Dear Sir:

We have received a letter from Elliot W. Densault, Jr., President of New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, regarding an application for a renewal of their license No. 20-3541-1 for the handling of radioactive waste.

This letter was sent to us to satisfy the requirements of Section 2-101(b) of 10CFR-2.

We were not acquainted with this section that requires the applicant to notify us and do not know if there is any comment required by us to the Commission.

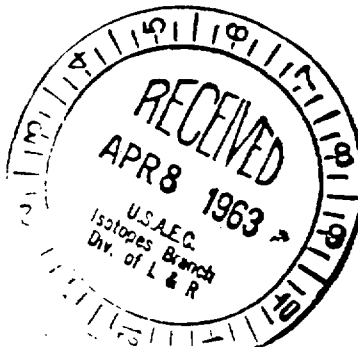
Would you kindly clarify this situation and send us a copy of CFR-2.

Very truly yours,

*Thomas F. Kelly*  
 Thomas F. Kelly  
 Director



RLD:ad



60000

APR 3 1963

PAID  
Booklet No. 27-8

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Elmer W. Bennett, Jr.

Dear Sirs:

This is in reference to your letter dated March 26, 1963, in regard to your application for renewal of License No. 20-3541-1. Since your original application for renewal dated January 28, 1963, was submitted more than 30 days prior to the expiration date, the license will remain in effect until final action is taken on the renewal application.

In our letter dated March 7, 1963, we pointed out that Section 2.101(b), 19 CFR 2, requires that you file your application with local officials. It appears that you may have misinterpreted the provisions of 2.101(b). This Section states, in part, "An applicant for a license to receive waste radioactive material from other persons for the purpose of packing, storage or disposal, shall serve a copy of the application on the chief executive of the municipality in which the facility is to be located or the activity is to be conducted". Since your facility is located in the City of Boston, it is necessary that you file a copy of the application with the Mayor of the City of Boston.

In our letter of March 7, 1963, we pointed out that the application did not indicate what is to be returned. We requested that this information be provided together with specific identification of those documents previously submitted which should be considered in renewal of the license. In lieu of separate submission of the above information, we indicated that submission of the copies of the application as filed with local officials would be satisfactory. The application which must be filed with the Mayor of the City of Boston must be a completed application and contain all the documents which you wish considered in renewal of the license.

The license now provides for the safe disposal of radioactive wastes. The information which was submitted in the renewal application does not indicate that you desire to be relicensed for this portion of your program. Unless your application specifically requests renewal of this portion of your program, further action on the application will delete authorization for safe disposal.

New England Tank Cleaning Company -3-

Item 1(b) of form ABC-313 dated March 26, 1963, states that wastes are stored at Mill & Webster Streets, East Boston, Massachusetts. The license now provides for storage only on Great Brewster Island, Boston, Massachusetts, or in your warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts. Since the locations do not appear to be the same, we request that you provide the following information in regard to the facility located at Mill & Webster Streets:

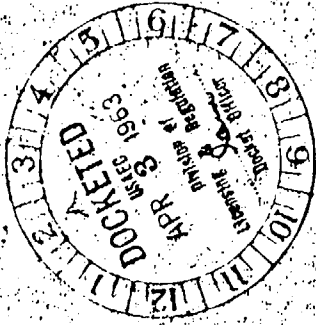
1. The construction materials used in the facility with particular reference to fire resistance or heat contribution in the event of fire.
2. Provisions for fire protection for the facility.
3. The nature of the containers which will be stored in the facility with particular emphasis on the possibility of spread of radioactive materials in the event of fire.
4. Confirmation that neither explosives nor inflammables will be stored in the facility.
5. An indication of the history of flooding or leak thereof at the location on which the facility will be erected.
6. The means for securing the facility from entry by unauthorized personnel.

We request that the above information be submitted by May 1, 1963. If the information is not forthcoming by this date, it may be necessary to take steps to deny the application for license renewal. Such a denial will terminate the license.

Sincerely yours,

Typed Signed by  
Richard E. Cunningham

Richard E. Cunningham  
Chief, Isotopes Branch  
Division of Licensing  
and Regulation



|           |        |              |  |
|-----------|--------|--------------|--|
| OFFICE ▶  | IR: IB | IR: IB       |  |
| SURNAME ▶ | NB: ss | RECunningham |  |
| DATE ▶    | 4/1/63 | 4/3/63       |  |

# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41 MASSACHUSETTS

27-8  
March 26, 1963

United States Atomic Energy Commission  
Washington 25, D.C.

Attention of Mr. Nathan Bassin, Isotopes Branch  
Division Licensing & Regulations

Dear Sir:

Ref: LR:IB:NB Docket 27-8

In reply to your letter of March 7, 1963, we enclose three copies of application for renewal of license #20-3541-1, plus amendments, and have forwarded the original copy as suggested in your letter to the Division of Industrial Safety, State House, Boston, Mass. of the Department of Labor & Industries.

Thank you for forwarding the necessary application forms requested in our letter of March 12, 1963, which we received March 25, 1963.

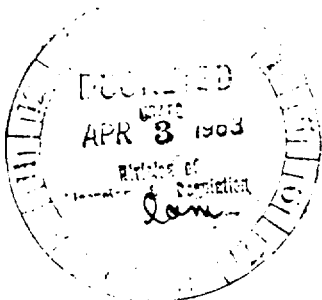
Will you please do what you can to expedite issuance of our license renewal as time is short.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

Elliot W. Denault, Jr.  
President

EWD/k  
enc 3





APPLICATION FOR BYPRODUCT MATERIAL LICENSE

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

|   |   |
|---|---|
| <p>1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.)</p> <p><b>New England Tank Cleaning Company<br/>135 First Street<br/>Cambridge 41, MASS.</b></p>  | <p>(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).)</p> <p><b>Stored at:<br/>Mill &amp; Webster St.<br/>East Boston, Mass.</b></p>   |
| <p>2. DEPARTMENT TO USE BYPRODUCT MATERIAL</p> <p><b>For Disposal</b></p>   | <p>3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)</p> <p><b>20-3541-1 plus amendments 1-5 C-63</b></p>   |
| <p>4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)</p> <p><b>Do not use or open containers as per contract</b></p>  | <p>5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)</p> <p><b>Norman Rasmussen (as per license)<br/>Joel Bulkley (as per license)</b></p>   |
| <p>6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each)</p> <p><b>1) 50¢ of source<br/>2) 5 grams of special nuclear<br/>3) All byproduct material<br/>KI<br/>As per license</b></p>   | <p>(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)</p> <p><b>1,000 curies of byproduct material-as per license.</b></p> |
| <p>7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for human use, supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)</p> <p><b>FOR DISPOSAL</b></p> |   |

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary)

| 8. TYPE OF TRAINING  | WHERE TRAINED   | DURATION OF TRAINING | ON THE JOB (Circle answer) | FORMAL COURSE (Circle answer) |
|--|---|----------------------|----------------------------|-------------------------------|
| a. Principles and practices of radiation protection                                    | charge cyclotron M.I.T.<br>H. Rasmussen, full Professor<br>M.I.T., PHD in nuclear physics<br>J. Bulkeley, consultant M.I.T. | 11 yrs.<br>11 yrs.   | Yes No<br>Yes No           | Yes No<br>Yes No              |
| b. Radioactivity measurement standardization and monitoring techniques and instruments | Mass. Institute Technology  | 11 yrs.              | Yes No                     | Yes No                        |
| c. Mathematics and calculations basic to the use and measurement of radioactivity      | Mass. Institute Technology  | 11 yrs.              | Yes No                     | Yes No                        |
| d. Biological effects of radiation   | Mass. Institute Technology  | 11 yrs.              | Yes No                     | Yes No                        |

9. EXPERIENCE WITH RADIATION (Actual use of radioisotopes or equivalent experience.)

| ISOTOPE | MAXIMUM AMOUNT | WHERE EXPERIENCE WAS GAINED | DURATION OF EXPERIENCE | TYPE OF USE           |
|---------|----------------|-----------------------------|------------------------|-----------------------|
| All     |                | Mass. Institute Technology  | 11 years               | cyclotron and reactor |

10. RADIATION DETECTION INSTRUMENTS (Use supplemental sheets if necessary)

| TYPE OF INSTRUMENTS (Include make and model number of each) | NUMBER AVAILABLE | RADIATION DETECTED | SENSITIVITY RANGE (mr/hr)           | WINDOW THICKNESS (mg/cm <sup>2</sup> ) | USE (Monitoring, surveying, measuring) |
|---|------------------|--------------------|-------------------------------------|--|--|
| UAC 700 survey meters                                       | 1                | Beta gamma         | .5/mr/hr.<br>5/mr/hr<br>50/mr/hr    |  | Monitoring, surveying & measuring      |
| SRJ3 June   | 1                | Alpha              | 50/mr/hr<br>500/mr/hr<br>5000/mr/hr | .45 mg/cm <sup>2</sup>                 |  |

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.  
**Instruments calibrated by safety officer every year.**

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)  
**Film badges (Controls for radiation)  
 Dosimeters (Mass. Institute Technology)**

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS

13. FACILITIES AND EQUIPMENT Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes  No

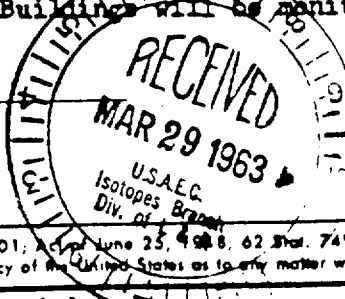
14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source.  
**Sprinkler, watchmen, monitoring, locked area, survey & disposal.**

15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. ~~On local pickup, our own trucks will be used. Vehicles will be monitored and controls will be as per our license. For land disposal commercial trucks will be used.~~

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.  
**All materials will be stored in our licensed area, East Boston, Mass. Loads will be checked and monitored, Area & Buildings will be monitored, Area will be safeguarded from trespass.**

Date March 26, 1963 By: Eliot W. Dehault, Jr.  
**NEW ENGLAND TANK CLEANING COMPANY**  
 Title of certifying official  
**TREASURER**



WARNING.—18 U. S. C., Section 1001, Act of June 25, 1948, 62 Stat. 749; 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.

MAR 22 1963

MAIL ROOM  
Pocket No. 27-8

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Elliot W. Dussault, Jr.  
President

Gentlemen:

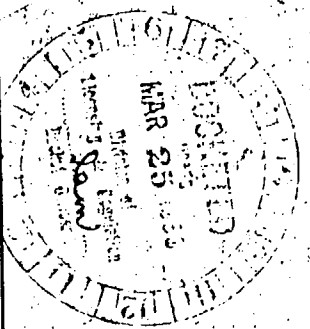
Pursuant to your request of March 12, 1963, enclosed  
are six (6) sets of Form ABC-313.

Sincerely yours,

Original Signed by  
Arthur Smith

Nathan Dussault  
Isotope Branch  
Division of Licensing  
and Regulation

Enclosure:  
As stated above



|           |               |  |  |  |  |  |
|-----------|---------------|--|--|--|--|--|
| OFFICE ▶  | LR:IB         |  |  |  |  |  |
| SURNAME ▶ | SMITH, ARTHUR |  |  |  |  |  |
| DATE ▶    | 3/22/63       |  |  |  |  |  |

# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

*MB*

March 12, 1963

RECEIVED NO 27-8

U. S. Atomic Energy Commission  
Washington 25, D.C.

Ref: LR:IB:MB Docket No. 27-8

Attention of Mr. Nathan Bassin, Isotopes Branch  
Div. Licensing & Regulation

Dear Sir:

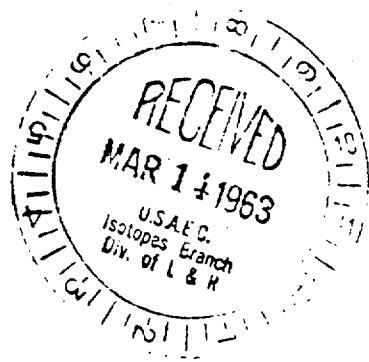
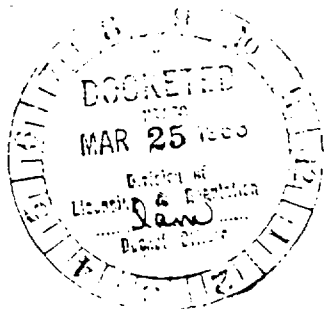
In answer to your letter of March 7, 1963, we wish to comply with your request. Will you please forward to above address six (6) applications for renewal of license as indicated in your letter.

Thank you.

*Eliot W. Denault, Jr.*  
NEW ENGLAND TANK CLEANING COMPANY

Eliot W. Denault, Jr.  
President

END/k



MAR 7 1963

LR:IB:MS  
Rechet No. 27-8

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Eliot W. Demalt, Jr.  
President

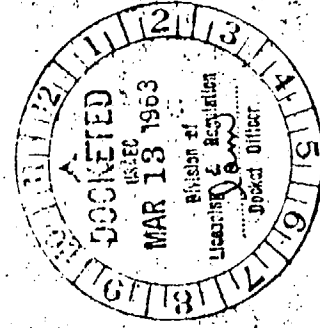
Gentlemen:

This is in reference to your application dated January 28, 1963,  
for renewal of license No. 20-3541-1.

The application does not indicate what is to be relicensed. Items  
4, 6 and 7 are blank and Item 15 states "Own trucks used". We  
request that you provide the information requested by these sections  
and that you specifically identify those documents which you have  
previously submitted which should be considered in renewal of the  
license.

Section 2.101(b), 10 CFR 2, requires that you file your application  
with local officials. Since you have not done this previously, we  
suggest that you provide them with a complete application. We request  
that you confirm to this office that such filing has been made and the  
date of filing. The submission to this office of three copies of the  
application which you file with local officials will serve in lieu of  
submission of a separate answer to the request for information above.

We shall continue review of the application upon receipt of the above  
information.



Sincerely yours,  
Typed typed by  
MAY 1963  
MAR 7 1963

Nathan Messia  
Isotopes Branch  
Division of Licensing  
and Regulation

|           |        |    |  |
|-----------|--------|----|--|
| OFFICE ▶  | LR:IB  |    |  |
| SURNAME ▶ | MS     | CS |  |
| DATE ▶    | 3/4/63 |    |  |

UNITED STATES ATOMIC ENERGY COMMISSIONDOCKET NO. 27-8NEW ENGLAND TANK CLEANING COMPANYNOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT,  
SOURCE AND SPECIAL NUCLEAR MATERIAL LICENSE

Please take notice that the Atomic Energy Commission has issued Amendment No. 6 to License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, which provides for renewal of the license for a period of two years.

The license provides for the receipt, storage and repackaging of 1,000 curies of byproduct material, 50 pounds of source material, and 5 grams of special nuclear material at the licensee's warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts. The license further provides that the waste radioactive material may be disposed of by transfer to an authorized land burial site or by disposal at sea in an area bounded by the parallels of  $41^{\circ} 38' N.$  and  $41^{\circ} 28' N.$  and by the meridians of  $65^{\circ} 28' W.$  and  $65^{\circ} 45' W.$  at a minimum depth of 1,000 fathoms.

The license amendment provides only for the continuation of activities previously authorized. The Commission has determined pursuant to the provisions of 10 CFR Parts 2, 30, 40 and 70 that the issuance of the amendment is consistent with applicable provisions of law, regulations and orders issued by the Commission.

ITEM # 77

A177 (C)

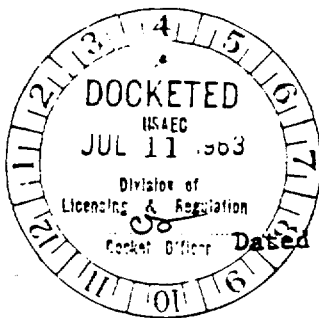
In accordance with the Commission's "Rules of Practice", Title 10, Code of Federal Regulations, Chapter 1, Part 2, a formal hearing will be held on the matter upon receipt or request therefor from the licensee or an intervener within 15 days from the date of publication of this Notice in the Federal Register.

The license has been amended in its entirety to consolidate various amendments. The text of this license is attached to this Notice, except for "Appendix A" which is available for public inspection in the Commission's Public Document Room.

FOR THE ATOMIC ENERGY COMMISSION

Signed: Eber R. Price

Acting Director  
Division of Licensing & Regulation



Dated at Bethesda, Maryland

JUL 11 1963

In accordance with the Commission's "Rules of Practice", Title 10, Code of Federal Regulations, Chapter 1, Part 2, a formal hearing will be held on the matter upon receipt or request therefor from the licensee or an intervener within 15 days from the date of publication of this Notice in the Federal Register.

~~The text of the Amendment is attached to this Notice.~~

FOR THE ATOMIC ENERGY COMMISSION

IR:IB  
*Bassin*  
NBassin:cs  
6/25/63

IR:IB  
*Cunniff*  
RECunniff:gham  
6/27/63

IR:IB  
*L Johnson*  
L Johnson  
6/27/63

*subject to change in*  
OCC  
*BC*  
7/8/63

*6/27/63*  
IR  
*Director*  
7/11/63

Dated at Bethesda, Maryland



JUL 11 1963

LR:IB:IB  
Docket No. 27-2

Honorable Endicott Peabody  
Governor of Massachusetts  
Boston, Massachusetts

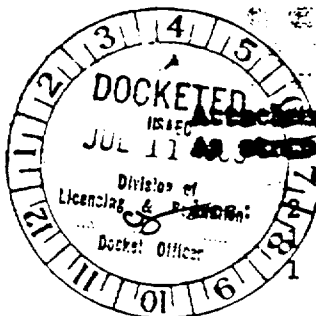
Dear Governor Peabody:

This is to inform you that the Atomic Energy Commission has issued Amendment No. 6 to Byproduct, Source and Special Nuclear Material License No. 20-5541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts. The license amendment renews the license for a period of two years and provides only for the continuation of activities previously authorized. These activities are receipt, storage and repackaging for sea disposal and disposal by burial at sea or by transfer to authorized land burial sites of waste byproduct, source and special nuclear material.

Copies of this letter and attachment are being sent to Dr. Alfred L. Frechette, Commissioner of Public Health, Mr. John A. Callahan, Commissioner, Department of Labor and Industries and Mr. Raymond I. Rigney, Coordinator of Atomic Development Commission on Atomic Energy.

Sincerely yours,

Eber R. Price  
Acting Director  
Director  
Division of Licensing  
and Regulation



Attachment:  
As stated above

2 Cong. Lia.  
G. W. Morgan  
1 OGC

|           |                      |             |          |          |      |
|-----------|----------------------|-------------|----------|----------|------|
| OFFICE ▶  | LR:IB                | LR:IB       | LR:ML    | OGC      |      |
| SURNAME ▶ | Basson<br>NBassin:cs | RCunningham | LJohnson | Director |      |
| DATE ▶    | 6/28/63              | 7/1/63      | 7/1/63   | 7/8/63   | 7/11 |

LR:IB:MB  
Docket No. 27-8

Honorable Endicott Peabody  
Governor of Massachusetts  
Boston, Massachusetts

Dear Governor Peabody:

This is to inform you that the Atomic Energy Commission has issued Amendment No. 6 to Byproduct, Source and Special Nuclear Material License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts. This amendment authorizes the receipt, packaging and storage of radioactive waste material at the licensee's warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts, and renews the license for a period of two years.

Copies of this letter and attachment are being sent to Dr. Alfred L. Fychette, Commissioner of Public Health, Mr. John A. Callahan, Commissioner, Department of Labor and Industries and Mr. Raymond I. Signey, Coordinator of Atomic Development Commission on Atomic Energy.

Sincerely yours,

Director  
Division of Licensing  
and Regulation

Attachment:  
As stated above

bcc: 2-Cong. Lia.  
1 OGC  
1 G. W. Morgan

|           |            |             |          |     |          |  |
|-----------|------------|-------------|----------|-----|----------|--|
| OFFICE ▶  | LR:IB      | LR:IB       | LR:ML    | OGC | LR       |  |
| SURNAME ▶ | RBassin:cs | RCunningham | LJohnson |     | Director |  |
| DATE ▶    | 6/26/63    | 6/27/63     |          |     |          |  |

JUL 11 1963

LR:IB:EB  
Bucket No. 27-B

Mayor John F. Collins  
City Hall  
Boston, Massachusetts

Dear Mayor Collins:

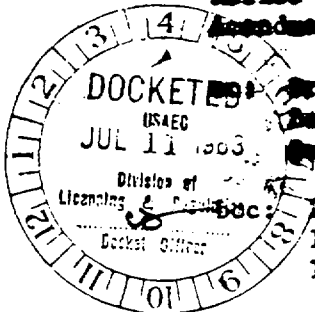
This is to inform you that the Atomic Energy Commission has issued Amendment No. 6 to Byproduct, Source and Special Nuclear Material License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts. The license amendment renews the license for a period of two years and provides only for the continuation of activities previously authorized. These activities are receipt, storage and repackaging for sea disposal and disposal by burial at sea or by transfer to authorized land burial sites of waste byproduct, source and special nuclear material.

Sincerely yours,

Eber R. Price  
Acting Director

Director  
Division of Licensing  
and Regulation

Enclosure:  
Notice of Issuance  
Amendment No. 6



Mr. John T. Foley  
Boston City Health Department  
Boston, Massachusetts, w/encl.

- 2 Cong. Lia.
- 1 G. W. Morgan
- 1 OGC

|           |         |              |          |        |          |
|-----------|---------|--------------|----------|--------|----------|
| OFFICE ▶  | LR:IB   | LR:IB        | LR:ML    | OGG    | LR       |
| SURNAME ▶ | Bassin  | RECunningham | LJohnson | TBC    | Director |
| DATE ▶    | 6/28/63 | 7/1/63       | 7/1/63   | 7/8/63 | 7/11     |

LR:IB:EB

Docket No. E7-8

Mayer John F. Collins  
City Hall  
Boston, Massachusetts

Dear Mayer Collins:

This is to inform you that the Atomic Energy Commission has issued Amendment No. 6 to Byproduct, Source and Special Nuclear Material License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts. This amendment authorizes the receipt, packaging and storage of radioactive waste material at the licensee's warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts, and renews the license for a period of two years.

Sincerely yours,

Director  
Division of Licensing  
and Regulation

Enclosure:  
Notice of Issuance  
Amendment No. 6

cc: Mr. John T. Foley  
Boston City Health Department  
Boston, Massachusetts, w/encl.

bcc: 2 Cong. Lia.  
1 G. W. Morgan  
1 OGC

|           |                              |                                |          |     |          |  |
|-----------|------------------------------|--------------------------------|----------|-----|----------|--|
| OFFICE ▶  | LR:IB                        | LR:IB                          | LR:ML    | OGC | LR       |  |
| SURNAME ▶ | <i>Bassini</i><br>NBassini:s | <i>McQuinn</i><br>RMcQuinn:mas | LJohnson |     | Director |  |
| DATE ▶    | 6/26/63                      | 6/27/63                        |          |     |          |  |

JUL 11 1963

Chief, Public Proceedings Branch  
Office of the Secretary

Original Signed By  
Richard E. Cunningham  
Cunningham, Chief, Isotopes Branch  
Division of Licensing and Regulation

FEDERAL REGISTER NOTICE

LR:IB:NB

Attached for publication in the Federal Register and appropriate distribution are a signed original and 11 copies of the following:

"DOCKET NO. 27-8, NEW ENGLAND TANK CLEANING COMPANY, NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT, SOURCE AND SPECIAL NUCLEAR MATERIAL LICENSE"

Attachments:  
As stated above

|           |                             |                     |       |  |  |  |
|-----------|-----------------------------|---------------------|-------|--|--|--|
| OFFICE ▶  | LR:IB                       | LR:IB               | O G C |  |  |  |
| SURNAME ▶ | <i>Prison</i><br>NBassin:cs | <i>RECunningham</i> |       |  |  |  |
| DATE ▶    | 6/26/63                     | 6/27/63             |       |  |  |  |

*Suppl*

JUL 11 1963

LR:IB:EB  
Docket No. 27-8

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Eliot W. Densult, Jr.

Gentlemen:

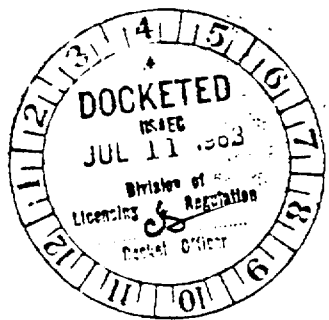
Transmitted herewith is Amendment No. 6 to Byproduct, Source and Special Nuclear Material License No. 20-3541-1. The amendment renews the license for a period of two years.

Please note that the amendment to the license may contain more restrictive conditions than were set forth in the application. Where this occurs, the license conditions prevail.

Sincerely yours,

Eber R. Price  
Acting Director  
Director  
Division of Licensing  
and Regulation

Enclosure:  
As stated above



ITEM # 78

*Change made - was in last paragraph of Notice relating to availability of app. 7/14*

*subject to corrective sentence notice as renewal*

|           |            |              |          |        |          |
|-----------|------------|--------------|----------|--------|----------|
| OFFICE ▶  | LR:IB      | LR:IB        | LR:ML    | OGC    | Director |
| SURNAME ▶ | NBassin:cs | RECunningham | LJohnson |        | Director |
| DATE ▶    | 7/1/63     | 7/1/63       | 7/1/63   | 7/1/63 | 7/1/63   |

*A/78 (14)*

LR:IB:NB  
Docket No. 27-8

New England Tank Cleaning Company  
138 First Street  
Cambridge 41, Massachusetts

Attention: Mr. Eliot W. Beasault, Jr.

Gentlemen:

Transmitted herewith is Amendment No. 6 to Byproduct, Source and Special Nuclear Material License No. 20-3541-1 which provides for receipt, packaging and storage of radioactive waste material in your warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts, and renewal of the license.

Please note that the amendment to the license may contain more restrictive conditions than were set forth in the application. Where this occurs, the license conditions prevail.

Sincerely yours,

Director  
Division of Licensing  
and Regulation

Enclosure:  
As stated above

|           |                           |                                     |                             |     |          |  |
|-----------|---------------------------|-------------------------------------|-----------------------------|-----|----------|--|
| OFFICE ▶  | LR:IB                     | LR:IB                               | LR:ML                       | OGC | LR       |  |
| SURNAME ▶ | <i>Bass</i><br>NBassin:cs | <i>RECunningham</i><br>RECunningham | <i>LJohnson</i><br>LJohnson |     | Director |  |
| DATE ▶    | 6/25/63                   | 6/27/63                             | 6/27/63                     |     |          |  |

JUL 11 1963

R. Lowenstein, Director  
Division of Licensing and Regulation

Original Signed by  
Richard E. Cunningham

R. E. Cunningham, Chief, Isotopes Branch  
Division of Licensing and Regulation

**NOTICE OF ISSUANCE OF AMENDMENT NO. 6 TO LICENSE NO.  
20-3541-1, NEW ENGLAND TANK CLEANING COMPANY, DOCKET  
NO. 27-8**

**LR:IB:EB**

The attached documentation relates to the issuance of Amendment No. 6 to License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts. This amendment extends the license for two years.

This package consists of:

1. Memorandum to H. L. Price attaching notice and amendment.
2. Letter to licensee attaching notice and amendment.
3. Docket file copies of notice and amendment.
4. Letter to Governor Peabody of the State of Massachusetts with copies to appropriate state officials attaching notice and amendment.
5. Letter to Mayor John F. Collins of Boston, Massachusetts, with copy to Dr. John T. Foley, Boston City Health Department attaching notice and amendment.
6. Transmittal to the Federal Register for publication.

After signature copies of appropriate documents will be distributed to the Public Document Room.

Attachments:  
As stated above

|           |         |              |  |  |  |
|-----------|---------|--------------|--|--|--|
| OFFICE ▶  | LR:IB   | LR:IB        |  |  |  |
| SURNAME ▶ | NEB:cs  | RECunningham |  |  |  |
| DATE ▶    | 6/28/63 | 7/1/63       |  |  |  |



**S. Lowenstein, Director**  
Division of Licensing and Regulation

**R. E. Cunningham, Chief, Isotopes Branch**  
Division of Licensing and Regulation

**NOTICE OF ISSUANCE OF AMENDMENT NO. 6 TO LICENSE NO.**  
**20-3541-1, NEW ENGLAND TANK CLEANING COMPANY, DOCKET**  
**NO. 27-8**

**LR:IB:EB**

The attached documentation relates to the issuance of Amendment No. 6 to License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts.

This package consists of:

1. Memorandum to H. L. Price attaching notice and amendment.
2. Letter to licensee attaching notice and amendment.
3. Docket file copies of notice and amendment.
4. Letter to Governor Peabody of the State of Massachusetts with copies to appropriate state officials attaching notice and amendment.
5. Letter to Mayor John F. Collins of Boston, Massachusetts, with copy to Dr. John T. Foley, Boston City Health Department attaching notice and amendment.
6. Transmittal to the Federal Register for publication.

After signature copies of appropriate documents will be distributed to the Public Document Room.

**Attachments:**  
As stated above

|           |            |              |  |  |  |
|-----------|------------|--------------|--|--|--|
| OFFICE ▶  | LR:IB      | LR:IB        |  |  |  |
| SURNAME ▶ | NBassio/cs | RECunningham |  |  |  |
| DATE ▶    | 6/26/63    | 6/27/63      |  |  |  |

*Copy #*  
JUL 11 1963

**E. L. Price, Director  
of Regulation**

Eber R. Price

**R. Lowenstein, Director  
Division of Licensing and Regulation**

Acting Director

**ISSUANCE OF AMENDMENT NO. 6 TO LICENSE NO. 20-3541-1,  
NEW ENGLAND TANK CLEANING COMPANY, SOCKET NO. 27-8**

**LR:IB:NB**

I have sent to the Federal Register for publication a notice of issuance of Amendment No. 6 to License No. 20-3541-1 held by New England Tank Cleaning Company, Cambridge, Massachusetts.

The license amendment renews the license for a period of two years and provides only for the continuation of activities previously authorized. These activities are receipt, storage and repackaging for sea disposal and disposal by burial at sea or by transfer to authorized land burial sites of waste byproduct, source and special nuclear material.

This amendment provides only for the continuation of activities previously authorized.

Enclosure:  
Notice of Issuance  
Amendment No. 6

|           |            |              |          |     |          |
|-----------|------------|--------------|----------|-----|----------|
| OFFICE ▶  | LR:IB      | LR:IB        | LR:MB    | OGC | LR:MB    |
| SURNAME ▶ | NBassin:cs | RECunningham | LJohnson |     | Director |
| DATE ▶    | 6/28/63    |              | 7/11/63  |     | 7/11/63  |

~~E. L. Prica, Director  
of Regulation~~

~~R. Lowenstein, Director  
Division of Licensing and Regulation~~

~~ISSUANCE OF AMENDMENT NO. 6 TO LICENSE NO. 20-3541-1,  
NEW ENGLAND TANK CLEANING COMPANY, DOCKET NO. 27-8~~

~~LR:IB:EB~~

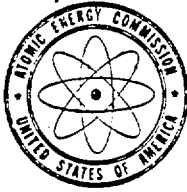
~~I have sent to the Federal Register for publication a notice  
of issuance of Amendment No. 6 to License No. 20-3541-1 held  
by New England Tank Cleaning Company, Cambridge, Massachusetts.~~

~~The license amendment provides for receipt, repackaging for sea  
disposal and disposal by burial at sea or by transfer to authorized  
land burial sites of waste byproduct, source and special nuclear  
material and renewal of the license for a period of two years.~~

~~This amendment provides only for the continuation of activities  
previously authorized.~~

~~Enclosure:  
Notice of Issuance  
Amendment No. 6~~

|           |            |              |          |     |          |  |
|-----------|------------|--------------|----------|-----|----------|--|
| OFFICE ▶  | LR:IB      | LR:IB        | IR:EB    | OGC | IR       |  |
| SURNAME ▶ | MBassin:cs | RECunningham | LDickson |     | Director |  |
| DATE ▶    | 6/26/63    | 6/27/63      | 6/27/63  |     |          |  |



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D.C.

BYPRODUCT, SOURCE AND SPECIAL NUCLEAR MATERIAL LICENSE

NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

LICENSE NO. 20-3541-1

AMENDMENT NO. 6

In accordance with application dated January 28, 1963, and amendments thereto dated March 26, 1963; April 4, 1963; and April 16, 1963, (hereinafter referred to as "the application"), License No. 20-3541-1 is amended in its entirety to read as follows:

Pursuant to the Atomic Energy Act of 1954, as amended; 10 CFR 30, "Licensing of Byproduct Material"; 10 CFR 40, "Licensing of Source Material"; 10 CFR 70, "Special Nuclear Material"; and in reliance upon the statements and representations contained in the application, New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, is hereby authorized to receive, acquire, own, possess, package, and dispose of solid byproduct, source, and special nuclear material at sea or by transfer to authorized sites for land burial.

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 the provisions of 10 CFR 20, "Standards for Protection Against Radiation", all other applicable rules, regulations, orders of the Atomic Energy Commission now or hereafter in effect, and to the following conditions:

1. The licensee shall not possess more than 1,000 curies of byproduct material; 50 pounds of source material; and 5 grams of special nuclear material at any one time.
2. All activities pertaining to the receipt, handling, repackaging for sea disposal, and disposal of packages containing waste byproduct, source, and special nuclear materials shall be carried out by, or in the physical presence of, Norman C. Rasmussen or Joel B. Bulkley.
3. The licensee shall receive, handle, possess, store, repackage, and dispose of waste byproduct, source and special nuclear materials in accordance with statements, representations and procedures contained in the application dated January 28, 1963, and amendments thereto dated March 26, 1963; April 4, 1963; April 16, 1963; and references contained therein.
4. A copy of "General Instructions for Personnel Handling Radioactive Substances", "Emergency Procedures", "General Instructions for Vehicular Accidents", "Personal Decontamination Procedures", and "Special Instructions for Final Packaging Operations", as described in the application shall be supplied to each employee of the licensee involved in the receipt, handling, repackaging for sea disposal, and disposal of waste byproduct, source, and special nuclear materials.

5. Waste material received from customers shall be packaged in containers which shall not be opened at any time by the licensee and which will meet the requirements of Condition 6 of this license.
6. The transportation of AEC-licensed material to and from the location designated in Condition 7 shall be subject to the applicable regulations of the Interstate Commerce Commission, United States Coast Guard and other agencies of the United States having appropriate jurisdiction, and where such regulations are not applicable shall be in accordance with the following requirements except as specifically provided by the Atomic Energy Commission:

A. Outside Shipping Containers

- (1) The containers shall meet the specifications for sea disposal containers as described in the application or by any one of the following specifications described in Appendix A attached hereto:
  - a. 15A, 15B, 12B, 6A, 6B, 6C, 17C, 17H, 19A or 19B for the containment of radioactivity in amounts not in excess of 2.7 curies; except polonium, 2 curies; or
  - b. Specification 55 for containment of solid cobalt 60, cesium 137, iridium 192, or gold 198 in amounts not in excess of 300 curies.
- (2) There shall be no radioactive contamination on any exterior surface of the container in excess of 500 d/m/100 sq. cm. alpha and 0.1 mrep/hr beta-gamma radiation.

- (3) The smallest dimension of the container shall not be less than 4 inches.
- (4) The radiation level of any accessible surface of the container shall not exceed 200 mrem/hr.
- (5) At one meter from any point on the radioactive source the radiation level shall not exceed 10 mrem/hr.
- (6) Containers which contain radioactive material emitting only alpha and/or beta radiation shall contain sufficient shielding to prevent the escape of primary corpuscular radiation to the exterior surface of the container and to reduce the secondary radiation at the surface of the container so that it does not exceed 10 mrem/24 hours at any time during transportation.

B. Inside containers

- (1) Solid and gaseous radioactive materials shall be packed in suitable inside containers designed to prevent rupture and leakage under conditions incident to transportation.
- (2) Liquid radioactive materials must be packed in sealed glass, earthenware, or other suitable containers. The container must be surrounded on all sides by an absorbent material sufficient to absorb the entire liquid contents and be of such nature that its efficiency will not be impaired by chemical reactions with the contents. Where shielding is required the absorbent material must be placed within the shield. If the inside container meets the Specification 2R in Appendix A the absorbent material is not required.

(3) Materials containing radioisotopes of plutonium, americium, polonium, or curium, or the isotope strontium 90, in quantities in excess of 100 microcuries, must be packed in containers which meet Specification 2R in Appendix A.

C. Shielding

Inside containers must be completely surrounded with sufficient shielding to meet the requirements of subparagraphs A(4), A(5) and A(6) of this condition. The shield must be so designed that it will not open or break under normal conditions incident to transportation.

D. Labeling

Each outside container label required under Section 20.203(f) of 10 CFR 20 shall bear the following information:

- (1) Total activity in millicuries, or in the case of source and special nuclear material, the total weight;
- (2) principal radioisotope;
- (3) radiation level at the surface of the container and at one meter from the source; and
- (4) the name and address of the licensee.

E. Each vehicle in which licensed material is transported shall be marked or placarded on each side and the rear with the lettering at least 3 inches high as follows: "DANGEROUS - RADIOACTIVE MATERIAL".



F. Accidents

In the event of an accident involving any vehicle transporting licensed material, immediate steps shall be taken to prevent radiation exposure of persons and to control contamination.

G. Exemptions

Specific approval must be obtained from the Atomic Energy Commission for modification of, or exemption from, the requirements of the license condition. Requests for such approval should be directed to the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, and should contain sufficient information to support such a request.

7. The licensee shall store and repackage waste byproduct, source and special nuclear materials only in the licensee's warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts.
8. The licensee shall dispose of waste byproduct, source and special nuclear materials by:
  - A. Burial at a minimum depth of 1,000 fathoms in the Atlantic Ocean within an area bounded by points designated as 41° 38' N., 41° 28' N., 65° 28' W., and 65° 45' W.
  - B. Transfer to authorized sites for land burial.
9. The licensee shall notify the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, Washington 25, D.C., and the Director, Region I, Division of Compliance, Atomic Energy Commission, 376 Hudson Street, New York 14, New York, at least 20 days prior to each sea disposal or series of sea disposals

by letter deposited in the United States mail properly stamped and addressed of the proposed date and location for disposal. Information regarding the total number of containers, the total activity of byproduct material in millicuries, the total amount of source material in pounds and the total amount of special nuclear material in grams contained in each sea disposal shipment shall be supplied the Director, Region I, Division of Compliance, one working day prior to the loading of the vessel for each sea disposal trip. Information regarding the quantities of byproduct, source and special nuclear material disposed of, the actual date of disposal and the disposal location in latitude and longitude shall be supplied to the Chief, Isotopes Branch, Division of Licensing and Regulation, within 30 days after the date of disposal.

10. Notwithstanding the record-keeping requirements of 10 CFR Parts 20, 30, 40, and 70, the licensee shall maintain:

A. Records of the following items of information regarding each container of waste received from customers:

- (1) Name and address of customer.
- (2) Principal radioisotope.
- (3) Total amount of byproduct material in millicuries, total amount of source material in pounds, and total amount of special nuclear material in grams.
- (4) Radiation level at the surface of the container and at 1 meter.
- (5) Level of removable radioactive contamination on the container surface.

(6) Date received.

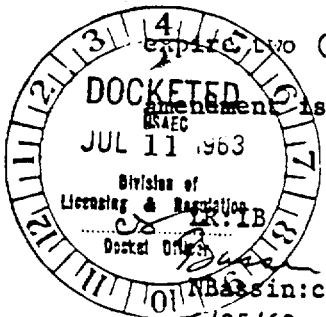
B. Records of the following items of information regarding each container of waste packaged for sea disposal.

- (1) Total amount of byproduct material in millicuries, the amount of source material in pounds and the amount of special nuclear material in grams.
- (2) Radiation level at the surface of the container and at 1 meter.
- (3) Level of removable radioactive contamination on the container surface.
- (4) Principal radioisotope.
- (5) Date of packaging.
- (6) Weight and volume of final container, if prepared for disposal at sea.
- (7) Disposal location and date of disposal.

11. Packaged radioactive waste containing special nuclear material shall be transported only aboard vessels of American registry.

12. Waste byproduct, source and special nuclear material shall be disposed of within 21 months from the date on which the licensee first takes possession of such material.

This amendment is effective as of the date of issuance and shall expire two (2) years from the last day of the month in which this amendment is issued.



FOR THE ATOMIC ENERGY COMMISSION

LR:IB  
*[Signature]*  
 RE Cunningham  
 6/27/63

LR:ML OGC  
*[Signature]*  
 Signed: Eber R. Price  
 Johnson  
 7/1/63  
 Acting Director  
 Division of Licensing & Regulation  
*[Signature]*  
 7/1/63

6/25/63  
 Date of Issuance:  
**JUL 11 1963**

UNITED STATES GOVERNMENT

# Memorandum

TO : H. L. Price, Director  
of Regulation

DATE: JUL 11 1963

FROM : R. Lowenstein, Director  
Division of Licensing and Regulation

SUBJECT: ISSUANCE OF AMENDMENT NO. 6 TO LICENSE NO. 20-3541-1,  
NEW ENGLAND TANK CLEANING COMPANY, DOCKET NO. 27-8

LR:LB:NB

I have sent to the Federal Register for publication a notice of issuance of Amendment No. 6 to License No. 20-3541-1 held by New England Tank Cleaning Company, Cambridge, Massachusetts.

The license amendment renews the license for a period of two years and provides only for the continuation of activities previously authorized. These activities are receipt, storage and repackaging for sea disposal and disposal by burial at sea or by transfer to authorized land burial sites of waste byproduct, source and special nuclear material.

This amendment provides only for the continuation of activities previously authorized.

Enclosure:  
Notice of Issuance  
Amendment No. 6

ITEM # 79

1170

UNITED STATES GOVERNMENT

# Memorandum

TO : R. Lowenstein, Director  
Division of Licensing and Regulation

DATE: JUL 11 1963

FROM : R. E. Cunningham, Chief, Isotopes Branch  
Division of Licensing and Regulation

REC

SUBJECT: NOTICE OF ISSUANCE OF AMENDMENT NO. 6 TO LICENSE NO.  
20-3541-1, NEW ENGLAND TANK CLEANING COMPANY, DOCKET  
NO. 27-8

LR:IB:NB

The attached documentation relates to the issuance of Amendment No. 6 to License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts. This amendment extends the license for two years.

This package consists of:

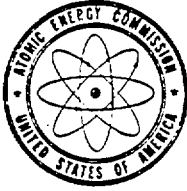
1. Memorandum to H. L. Price attaching notice and amendment.
2. Letter to licensee attaching notice and amendment.
3. Docket file copies of notice and amendment.
4. Letter to Governor Peabody of the State of Massachusetts with copies to appropriate state officials attaching notice and amendment.
5. Letter to Mayor John F. Collins of Boston, Massachusetts, with copy to Dr. John T. Foley, Boston City Health Department attaching notice and amendment.
6. Transmittal to the Federal Register for publication.

After signature copies of appropriate documents will be distributed to the Public Document Room.

Attachments:  
As stated above

ITEM # 80

① 11/14/63



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D.C.

BYPRODUCT, SOURCE AND SPECIAL NUCLEAR MATERIAL LICENSE

NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

LICENSE NO. 20-3541-1

AMENDMENT NO. 6

In accordance with application dated January 28, 1963, and amendments thereto dated March 26, 1963; April 4, 1963; and April 16, 1963, (hereinafter referred to as "the application"), License No. 20-3541-1 is amended in its entirety to read as follows:

Pursuant to the Atomic Energy Act of 1954, as amended; 10 CFR 30, "Licensing of Byproduct Material"; 10 CFR 40, "Licensing of Source Material"; 10 CFR 70, "Special Nuclear Material"; and in reliance upon the statements and representations contained in the application, New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, is hereby authorized to receive, acquire, own, possess, package, and dispose of solid byproduct, source, and special nuclear material at sea or by transfer to authorized sites for land burial.

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

ITEM # 81

2/81 8

to the provisions of 10 CFR 20, "Standards for Protection Against Radiation", all other applicable rules, regulations, orders of the Atomic Energy Commission now or hereafter in effect, and to the following conditions:

1. The licensee shall not possess more than 1,000 curies of byproduct material; 50 pounds of source material; and 5 grams of special nuclear material at any one time.
2. All activities pertaining to the receipt, handling, repackaging for sea disposal, and disposal of packages containing waste byproduct, source, and special nuclear materials shall be carried out by, or in the physical presence of, Norman C. Rasmussen or Joel B. Bulkley.
3. The licensee shall receive, handle, possess, store, repackage, and dispose of waste byproduct, source and special nuclear materials in accordance with statements, representations and procedures contained in the application dated January 28, 1963, and amendments thereto dated March 26, 1963; April 4, 1963; April 16, 1963; and references contained therein.
4. A copy of "General Instructions for Personnel Handling Radioactive Substances", "Emergency Procedures", "General Instructions for Vehicular Accidents", "Personal Decontamination Procedures", and "Special Instructions for Final Packaging Operations", as described in the application shall be supplied to each employee of the licensee involved in the receipt, handling, repackaging for sea disposal, and disposal of waste byproduct, source, and special nuclear materials.

5. Waste material received from customers shall be packaged in containers which shall not be opened at any time by the licensee and which will meet the requirements of Condition 6 of this license.
6. The transportation of AEC-licensed material to and from the location designated in Condition 7 shall be subject to the applicable regulations of the Interstate Commerce Commission, United States Coast Guard and other agencies of the United States having appropriate jurisdiction, and where such regulations are not applicable shall be in accordance with the following requirements except as specifically provided by the Atomic Energy Commission:
  - A. Outside Shipping Containers
    - (1) The containers shall meet the specifications for sea disposal containers as described in the application or by any one of the following specifications described in Appendix A attached hereto:
      - a. 15A, 15B, 12B, 6A, 6B, 6C, 17C, 17H, 19A or 19B for the containment of radioactivity in amounts not in excess of 2.7 curies; except polonium, 2 curies; or
      - b. Specification 55 for containment of solid cobalt 60, cesium 137, iridium 192, or gold 198 in amounts not in excess of 300 curies.
    - (2) There shall be no radioactive contamination on any exterior surface of the container in excess of 500 d/m/100 sq. cm. alpha and 0.1 mrep/hr beta-gamma radiation.



- (3) The smallest dimension of the container shall not be less than 4 inches.
- (4) The radiation level of any accessible surface of the container shall not exceed 200 mrem/hr.
- (5) At one meter from any point on the radioactive source the radiation level shall not exceed 10 mrem/hr.
- (6) Containers which contain radioactive material emitting only alpha and/or beta radiation shall contain sufficient shielding to prevent the escape of primary corpuscular radiation to the exterior surface of the container and to reduce the secondary radiation at the surface of the container so that it does not exceed 10 mrem/24 hours at any time during transportation.

B. Inside containers

- (1) Solid and gaseous radioactive materials shall be packed in suitable inside containers designed to prevent rupture and leakage under conditions incident to transportation.
- (2) Liquid radioactive materials must be packed in sealed glass, earthenware, or other suitable containers. The container must be surrounded on all sides by an absorbent material sufficient to absorb the entire liquid contents and be of such nature that its efficiency will not be impaired by chemical reactions with the contents. Where shielding is required the absorbent material must be placed within the shield. If the inside container meets the Specification 2R in Appendix A the absorbent material is not required.

(3) Materials containing radioisotopes of plutonium, americium, polonium, or curium, or the isotope strontium 90, in quantities in excess of 100 microcuries, must be packed in containers which meet Specification 2R in Appendix A.

C. Shielding

Inside containers must be completely surrounded with sufficient shielding to meet the requirements of subparagraphs A(4), A(5) and A(6) of this condition. The shield must be so designed that it will not open or break under normal conditions incident to transportation.

D. Labeling

Each outside container label required under Section 20.203(f) of 10 CFR 20 shall bear the following information:

- (1) Total activity in millicuries, or in the case of source and special nuclear material, the total weight;
- (2) principal radioisotope;
- (3) radiation level at the surface of the container and at one meter from the source; and
- (4) the name and address of the licensee.

E. Each vehicle in which licensed material is transported shall be marked or placarded on each side and the rear with the lettering at least 3 inches high as follows: "DANGEROUS - RADIOACTIVE MATERIAL".

F. Accidents

In the event of an accident involving any vehicle transporting licensed material, immediate steps shall be taken to prevent radiation exposure of persons and to control contamination.

G. Exemptions

Specific approval must be obtained from the Atomic Energy Commission for modification of, or exemption from, the requirements of the license condition. Requests for such approval should be directed to the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, and should contain sufficient information to support such a request.

7. The licensee shall store and repackage waste byproduct, source and special nuclear materials only in the licensee's warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts.
8. The licensee shall dispose of waste byproduct, source and special nuclear materials by:
  - A. Burial at a minimum depth of 1,000 fathoms in the Atlantic Ocean within an area bounded by points designated as 41° 38' N., 41° 28' N., 65° 28' W., and 65° 45' W.
  - B. Transfer to authorized sites for land burial.
9. The licensee shall notify the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, Washington 25, D.C., and the Director, Region I, Division of Compliance, Atomic Energy Commission, 376 Hudson Street, New York 14, New York, at least 20 days prior to each sea disposal or series of sea disposals

by letter deposited in the United States mail properly stamped and addressed of the proposed date and location for disposal. Information regarding the total number of containers, the total activity of byproduct material in millicuries, the total amount of source material in pounds and the total amount of special nuclear material in grams contained in each sea disposal shipment shall be supplied the Director, Region I, Division of Compliance, one working day prior to the loading of the vessel for each sea disposal trip. Information regarding the quantities of byproduct, source and special nuclear material disposed of, the actual date of disposal and the disposal location in latitude and longitude shall be supplied to the Chief, Isotopes Branch, Division of Licensing and Regulation, within 30 days after the date of disposal.

10. Notwithstanding the record-keeping requirements of 10 CFR Parts 20, 30, 40, and 70, the licensee shall maintain:

A. Records of the following items of information regarding each container of waste received from customers:

- (1) Name and address of customer.
- (2) Principal radioisotope.
- (3) Total amount of byproduct material in millicuries, total amount of source material in pounds, and total amount of special nuclear material in grams.
- (4) Radiation level at the surface of the container and at 1 meter.
- (5) Level of removable radioactive contamination on the container surface.

(6) Date received.

B. Records of the following items of information regarding each container of waste packaged for sea disposal.

(1) Total amount of byproduct material in millicuries, the amount of source material in pounds and the amount of special nuclear material in grams.

(2) Radiation level at the surface of the container and at 1 meter.

(3) Level of removable radioactive contamination on the container surface.

(4) Principal radioisotope.

(5) Date of packaging.

(6) Weight and volume of final container, if prepared for disposal at sea.

(7) Disposal location and date of disposal.

11. Packaged radioactive waste containing special nuclear material shall be transported only aboard vessels of American registry.

12. Waste byproduct, source and special nuclear material shall be disposed of within 21 months from the date on which the licensee first takes possession of such material.

This amendment is effective as of the date of issuance and shall expire two (2) years from the last day of the month in which this amendment is issued.

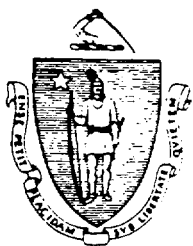
FOR THE ATOMIC ENERGY COMMISSION

Signed: Eber R. Price

Acting Director  
Division of Licensing & Regulation

Date of Issuance:

JUL 11 1963



ENDICOTT PEABODY  
GOVERNOR

THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE DEPARTMENT  
STATE HOUSE • BOSTON

*file*  
*27-8*  
*A-pp*

July 17, 1963

Mr. Alen R. Puiss  
Director  
Division of Licensing and Regulation  
United States Atomic Energy Commission  
Washington 25, D. C.

Dear Mr. Puiss:

His Excellency, Governor Peabody, has asked me to acknowledge and to thank you for your very informative letter of July 11, 1963, concerning Amendment No. 6 to Byproduct, Source and Special Nuclear Material License No. 20-3541-1 held by the New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, as issued by the Atomic Energy Commission.

Very sincerely,

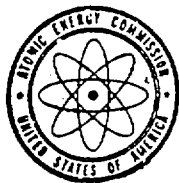
John T. Sweeney  
Secretary to the Governor

JTS:mac



ITEM # 82

*A/82 (2)*



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D.C.

JUL 12 1963

Mr. David C. Eberhart, Director  
Office of the Federal Register  
National Archives & Record Service  
Washington 25, D. C.

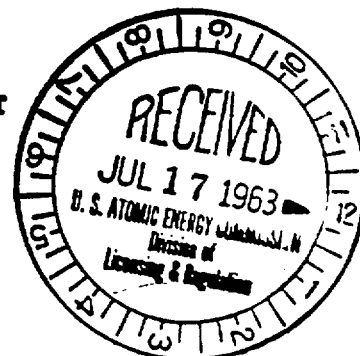
Dear Mr. Eberhart:

Attached for publication in the Federal Register as a Notice  
are an original and three certified copies of a document  
entitled:

**NEW ENGLAND TANK CLEANING COMPANY**

**DOCKET NO. 27-8**

**NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT  
SOURCE AND SPECIAL NUCLEAR MATERIAL LICENSE**



Publication of the above document at the earliest possible date  
would be appreciated. Please advise of the filing and publica-  
tion dates of this document by telephoning Code 119, Extension  
3446.

Sincerely yours,

*/s/ Woodford B. McCool*

Secretary to the Commission

Enclosures:  
Original and 3 Cert. Cys.

cc: Docket Clerk (DL&R) (w/cy of attach) ←  
Wm. Hughes (PI) (w/cy of attach.)  
W. B. McCool (SECY) (w/cy of attach.)  
Legal Files (w/cy of attach.)  
Law Library (w/cy of attach.)  
Congressional Liaison (w/cy of attach.)  
Reference Section (w/cy of attach.)  
Public Proceedings Branch (w/cy of attach.)  
Contracts (w/o cy of attach.)

Bridges and Knight Islands are similar to the surveyed islands in Tps. 166 and 167 N., Rgs. 32 and 33 W., which were surveyed in 1902. These islands are well over 50 percent upland in character.

Babe's Island is of granite rock and black loam formation and it reaches approximately 25 feet above the water level of Lake of the Woods. The timber species is mostly elm, with a few spruce, white pine and cedar; there is a thick growth of underbrush; the timber ranges in size from 4 to 30 inches in diameter.

The island is similar to that of the other islands in Lake of the Woods, except higher than some and is upland in character.

The timber growth on these islands is similar to that of the other islands in the lake. These facts, together with the rock formation of each island, attests to the fact that the islands were in existence in 1858, when Minnesota was admitted into the Union in 1902, the dates of the nearest original surveys, and at all subsequent dates, and therefore they have the status of public land.

The public lands affected by this notice are hereby opened to the operation of the public land laws, subject to valid existing rights, the provisions of existing withdrawals, and the requirements of applicable laws, rules and regulations.

All inquiries relating to the lands should be directed to the Manager, Land Office, Division of Field Services, Bureau of Land Management, Washington 25, D.C.

DORIS A. KOIVULA,  
Manager, Land Office.

[F.R. Doc. 63-7564; Filed, July 17, 1963;  
8:55 a.m.]

[Classification Order No. N2-STA-63-2]

## NEVADA

### Small Tract Classification

1. Pursuant to authority delegated by Bureau Order No. 684 dated August 28, 1961 (26 F.R. 8216) and the State Director June 29, 1962 (F.R. Doc. 62-6378), I hereby classify the following described public lands in Humboldt County, Nevada, as suitable for disposition under the Small Tract Act of June 1, 1938 (52 Stat. 609, 43 U.S.C. 682a), as amended.

MOUNT DIABLO MERIDIAN

T. 36 N., R. 38 E.,  
Sec. 16, NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ .

Containing 10 acres.

2. Classification of the above described lands by this order segregates them from all appropriations, including locations under the mining laws, except as to applications under the mineral leasing laws.

3. The lands classified by this order shall not be subject to application under the Small Tract Act of June 1, 1938 (52 Stat. 609, 43 U.S.C. 682a-e), as amended.

until it is so provided by an order to be issued by an authorized officer, opening the lands to sale.

Dated: July 1, 1963.

JOHN N. RUSSIFF,  
District Manager.

[F.R. Doc. 63-7565; Filed, July 17, 1963;  
8:55 a.m.]

[Classification No. N2-STA-63-3]

## NEVADA

### Small Tract Classification; Correction

In F.R. Doc. 63-7066, appearing on page 6886 of the issue for Thursday, July 4, 1963, the following change should be made:

The land description should read:

MOUNT DIABLO MERIDIAN

T. 36 N., R. 38 E.,  
Sec. 28, NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$   
NW $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$   
NW $\frac{1}{4}$ , NW $\frac{1}{4}$ NE $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ ,  
NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ .

Dated: July 10, 1963.

DONALD I. BAILEY,  
Acting Chief, Division of Lands  
and Minerals Management.

[F.R. Doc. 63-7566; Filed, July 17, 1963;  
8:55 a.m.]

## DEPARTMENT OF AGRICULTURE

Office of the Secretary

MISSISSIPPI

### Designation of Areas for Emergency Loans

For the purpose of making emergency loans pursuant to section 321 of the Consolidated Farmers Home Administration Act of 1961 (7 U.S.C. 1961), it has been determined that in the hereinafter-named counties in the State of Mississippi natural disasters have caused a need for agricultural credit not readily available from commercial banks, cooperative lending agencies, or other responsible sources.

MISSISSIPPI

Copiah. Hinds.  
Covington.

Pursuant to the authority set forth above, emergency loans will not be made in the above-named counties after June 30, 1964, except to applicants who previously received emergency or special livestock loan assistance and who can qualify under established policies and procedures.

Done at Washington, D.C., this 12th day of July 1963.

ORVILLE L. FREEMAN,  
Secretary.

[F.R. Doc. 63-7581; Filed, July 17, 1963;  
8:57 a.m.]

## WYOMING

### Designation of Area for Emergency Loans

For the purpose of making emergency loans pursuant to section 321 of the Consolidated Farmers Home Administration Act of 1961 (7 U.S.C. 1961), it has been determined that in Park County, Wyoming, natural disasters have caused a need for agricultural credit not readily available from commercial banks, cooperative lending agencies, or other responsible sources.

Pursuant to the authority set forth above, emergency loans will not be made in the above-named county after June 30, 1964, except to applicants who previously received emergency or special livestock loan assistance and who can qualify under established policies and procedures.

Done at Washington, D.C., this 12th day of July 1963.

ORVILLE L. FREEMAN,  
Secretary.

[F.R. Doc. 63-7582; Filed, July 17, 1963;  
8:57 a.m.]

## ATOMIC ENERGY COMMISSION

[Docket No. 27-8]

### NEW ENGLAND TANK CLEANING CO.

#### Notice of Issuance of an Amendment to Byproduct, Source and Special Nuclear Material License

Please take notice that the Atomic Energy Commission has issued Amendment No. 6 to License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, which provides for renewal of the license for a period of two years.

The license provides for the receipt, storage and repackaging of 1,000 curies of byproduct material, 50 pounds of source material, and 5 grams of special nuclear material at the licensee's warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts. The license further provides that the waste radioactive material may be disposed of by transfer to an authorized land burial site or by disposal at sea in an area bounded by the parallels of 41°38' N. and 41°28' N. and by the meridians of 65°28' W. and 65°45' W. at a minimum depth of 1,000 fathoms.

The license amendment provides only for the continuation of activities previously authorized. The Commission has determined pursuant to the provisions of 10 CFR Parts 2, 30, 40 and 70 that the issuance of the amendment is consistent with applicable provisions of law, regulations and orders issued by the Commission.

In accordance with the Commission's rules of practice, Title 10, Code of Federal Regulations, Chapter I, Part 2, a formal hearing will be held on the matter

ITEM #

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upon receipt or request therefor from the licensee or an intervener within 15 days from the date of publication of this notice in the FEDERAL REGISTER.

The license has been amended in its entirety to consolidate various amendments. The text of this license appears below, except for "Appendix A" which is available for public inspection in the Commission's Public Document Room.

Dated at Bethesda, Md., July 11, 1963.

For the Atomic Energy Commission.

EBER R. PRICE,  
Acting Director, Division of  
Licensing and Regulation.

[License No. 20-3541-1, Amdt. No. 6]

In accordance with application dated January 28, 1963, and amendments thereto dated March 26, 1963; April 4, 1963; and April 16, 1963 (hereinafter referred to as "the application"), License No. 20-3541-1 is amended in its entirety to read as follows:

Pursuant to the Atomic Energy Act of 1954, as amended; 10 CFR 20, "Licensing of Byproduct Material"; 10 CFR 40, "Licensing of Source Material"; 10 CFR 70, "Special Nuclear Material"; and in reliance upon the statements and representations contained in the application, New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, is hereby authorized to receive, acquire, own, possess, package, and dispose of solid byproduct, source, and special nuclear material at sea or by transfer to authorized sites for land burial.

This license shall be deemed to contain the conditions specified in Section 188 of the Atomic Energy Act of 1954, as amended, and is subject to the provisions of 10 CFR 20, "Standards for Protection Against Radiation", all other applicable rules, regulations, orders of the Atomic Energy Commission now or hereafter in effect, and to the following conditions:

1. The licensee shall not possess more than 1,000 curies of byproduct material; 50 pounds of source material; and 5 grams of special nuclear material at any one time.

2. All activities pertaining to the receipt, handling, repackaging for sea disposal, and disposal of packages containing waste byproduct, source, and special nuclear materials shall be carried out by, or in the physical presence of, Norman C. Rasmussen or Joel B. Bulkley.

3. The licensee shall receive, handle, possess, store, repackage, and dispose of waste byproduct, source, and special nuclear materials in accordance with statements, representations and procedures contained in the application dated January 28, 1963, and amendments thereto dated March 26, 1963; April 4, 1963; April 16, 1963; and references contained therein.

4. A copy of "General Instructions for Personnel Handling Radioactive Substances", "Emergency Procedures", "General Instructions for Vehicular Accidents", "Personal Decontamination Procedures", and "Special Instructions for Final Packaging Operations", as described in the application shall be supplied to each employee of the licensee involved in the receipt, handling, repackaging for sea disposal, and disposal of waste byproduct, source, and special nuclear materials.

5. Waste material received from customers shall be packaged in containers which shall not be opened at any time by the licensee and which will meet the requirements of Condition 6 of this license.

6. The transportation of AEC-licensed material to and from the location designated in Condition 7 shall be subject to the applicable regulations of the Interstate Commerce Commission, United States Coast Guard and

other agencies of the United States having appropriate jurisdiction, and where such regulations are not applicable shall be in accordance with the following requirements except as specifically provided by the Atomic Energy Commission:

#### A. Outside Shipping Containers

(1) The containers shall meet the specifications for sea disposal containers as described in the application or by any one of the following specifications described in Appendix A attached hereto:

a. 15A, 15B, 12B, 6A, 6B, 6C, 17C, 17E, 19A or 19B for the containment of radioactivity in amounts not in excess of 2.7 curies; except polonium, 2 curies; or

b. Specification 55 for containment of solid cobalt 60, cesium 137, iridium 192, or gold 198 in amounts not in excess of 300 curies.

(2) There shall be no radioactive contamination on any exterior surface of the container in excess of 500 d/m/100 sq. cm. alpha and 0.1 mrep/hr beta-gamma radiation.

(3) The smallest dimension of the container shall not be less than 4 inches.

(4) The radiation level of any accessible surface of the container shall not exceed 200 mrem/hr.

(5) At one meter from any point on the radioactive source the radiation level shall not exceed 10 mrem/hr.

(6) Containers which contain radioactive material emitting only alpha and/or beta radiation shall contain sufficient shielding to prevent the escape of primary corpuscular radiation to the exterior surface of the container and to reduce the secondary radiation at the surface of the container so that it does not exceed 10 mrem/24 hours at any time during transportation.

#### B. Inside containers

(1) Solid and gaseous radioactive materials shall be packed in suitable inside containers designed to prevent rupture and leakage under conditions incident to transportation.

(2) Liquid radioactive materials must be packed in sealed glass, earthenware, or other suitable containers. The container must be surrounded on all sides by an absorbent material sufficient to absorb the entire liquid contents and be of such nature that its efficiency will not be impaired by chemical reactions with the contents. Where shielding is required the absorbent material must be placed within the shield. If the inside container meets the Specification 2R in Appendix A the absorbent material is not required.

(3) Materials containing radioisotopes of plutonium, americium, polonium, or curium, or the isotope strontium 90, in quantities in excess of 100 microcuries, must be packed in containers which meet Specification 2R in Appendix A.

#### C. Shielding

Inside containers must be completely surrounded with sufficient shielding to meet the requirements of subparagraphs A(4), A(5) and A(6) of this condition. The shield must be so designed that it will not open or break under normal conditions incident to transportation.

#### D. Labeling

Each outside container label required under Section 20.203(f) of 10 CFR 20 shall bear the following information:

(1) Total activity in millicuries, or in the case of source and special nuclear material, the total weight;

(2) principal radioisotopes;

(3) radiation level at the surface of the container and at one meter from the source; and

(4) the name and address of the licensee.

E. Each vehicle in which licensed material is transported shall be marked or placarded on each side and the rear with the lettering at least 3 inches high as follows: "DANGEROUS—RADIOACTIVE MATERIAL".

#### F. Accidents

In the event of an accident involving any vehicle transporting licensed material, immediate steps shall be taken to prevent radiation exposure of persons and to control contamination.

#### G. Exemptions

Specific approval must be obtained from the Atomic Energy Commission for modification of, or exemption from, the requirements of the license condition. Requests for such approval should be directed to the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, and should contain sufficient information to support such a request.

7. The licensee shall store and repack waste byproduct, source and special nuclear materials only in the licensee's warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts.

8. The licensee shall dispose of waste byproduct, source and special nuclear materials by:

A. Burial at a minimum depth of 1,000 fathoms in the Atlantic Ocean within an area bounded by points designated as 41°38' N., 41°28' N., 65°28' W., and 65°45' W.

B. Transfer to authorized sites for land burial.

9. The licensee shall notify the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, Washington 25, D.C., and the Director, Region I, Division of Compliance, Atomic Energy Commission, 376 Hudson Street, New York 14, N.Y., at least 30 days prior to each sea disposal or series of sea disposals by letter deposited in the United States mail properly stamped and addressed of the proposed date and location for disposal. Information regarding the total number of containers, the total activity of byproduct material in millicuries, the total amount of source material in pounds and the total amount of special nuclear material in grams contained in each sea disposal shipment shall be supplied the Director, Region I, Division of Compliance, one working day prior to the loading of the vessel for each sea disposal trip. Information regarding the quantities of byproduct, source and special nuclear material disposed of, the actual date of disposal and the disposal location in latitude and longitude shall be supplied to the Chief, Isotopes Branch, Division of Licensing and Regulation, within 30 days after the date of disposal.

10. Notwithstanding the record-keeping requirements of 10 CFR Parts 20, 30, 40, and 70, the licensee shall maintain:

A. Records of the following items of information regarding each container of waste received from customers:

(1) Name and address of customer.

(2) Principal radioisotope.

(3) Total amount of byproduct material in millicuries, total amount of source material in pounds, and total amount of special nuclear material in grams.

(4) Radiation level at the surface of the container and at 1 meter.

(5) Level of removable radioactive contamination on the container surface.

(6) Date received.

B. Records of the following items of information regarding each container of waste packaged for sea disposal.

(1) Total amount of byproduct material in millicuries, the amount of source material in pounds and the amount of special nuclear material in grams.

(2) Radiation level at the surface of the container and at 1 meter.

(3) Level of removable radioactive contamination on the container surface.

(4) Principal radioisotope.

(5) Date of packaging.

(6) Weight and volume of final container, if prepared for disposal at sea.

(7) Disposal location and date of disposal.

11. Packaged radioactive waste containing special nuclear material shall be transported only aboard vessels of American registry.

12. Waste byproduct, source and special nuclear material shall be disposed of within 21 months from the date on which the licensee first takes possession of such material.

This amendment is effective as of the date of issuance and shall expire two (2) years from the last day of the month in which this amendment is issued.

Date of issuance: July 11, 1963.

For the Atomic Energy Commission.

EMER R. PRICE,  
Acting Director,  
Division of Licensing and Regulation.

[P.R. Doc. 63-7532; Filed, July 17, 1963;  
8:47 a.m.]

## CIVIL AERONAUTICS BOARD

[Docket No. 13777; Order No. E-19809]

### INTERNATIONAL AIR TRANSPORT ASSOCIATION

#### Agreement Adopted by Traffic Conference Relating to Fares

Adopted by the Civil Aeronautics Board at its office in Washington, D.C., on the 15th day of July 1963:

There has been filed with the Board, pursuant to section 412(a) of the Federal Aviation Act of 1958 (the Act) and Part 261 of the Board's Economic Regulations, an agreement between various air carriers, foreign air carriers, and other carriers, embodied in the resolutions of Traffic Conference 1 of the International Air Transport Association (IATA), and adopted by mail vote. The agreement has been assigned the above-designated C.A.B. Agreement number 17182.

The agreement specifies reduced fares for Bermuda-Baltimore, Bermuda-Philadelphia equal to those now in effect for Bermuda-Washington, with Bermuda-Hartford, Bermuda-Providence equal to those now in effect for Bermuda-Boston.

The Board, acting pursuant to sections 102, 204(a), and 412 of the Act, does not find Resolution 100 (Mall 316) 051, 061, which is incorporated in the above-described agreement, to be adverse to the public interest or in violation of the Act.

Accordingly, it is ordered, That Agreement C.A.B. 17182 be and hereby is approved.

Any air carrier party to the agreement, or any interested person, may, within 15 days from the date of service of this order, submit statements in writing containing reasons deemed appropriate, together with supporting data, in support of or in opposition to the Board's action herein. An original and nineteen copies of the statements should be filed with the Board's Docket Section. The Board may, upon consideration of any such statements filed, modify or rescind its action herein by subsequent order.

This order will be published in the FEDERAL REGISTER.

By the Civil Aeronautics Board.

[SEAL] HAROLD R. SANDERSON,  
Secretary.

[P.R. Doc. 63-7575; Filed, July 17, 1963;  
8:57 a.m.]

[Docket 13795 etc.]

### AAXICO AIRLINES, INC., ET AL.

#### Supplemental Air Service.

JULY 11, 1963.

Notice is hereby given that the Civil Aeronautics Board has decided to move forward with the processing of the applications listed below which seek certificates of public convenience and necessity authorizing supplemental air transportation under section 401(d)(3) of the Federal Aviation Act of 1958, as amended:

| Docket No. | Applicant                       |
|------------|---------------------------------|
| 13795      | Aaxico Airlines, Inc.           |
| 13796      | Do.                             |
| 13798      | Purdue Aeronautics Corp.        |
| 13799      | Do.                             |
| 13811      | World Airways, Inc.             |
| 13812      | Do.                             |
| 13816      | Standard Airways, Inc.          |
| 13817      | Do.                             |
| 13818      | Southern Air Transport, Inc.    |
| 13819      | Do.                             |
| 13820      | Sourdough Air Transport.        |
| 13821      | Do.                             |
| 13827      | Vance Roberts.                  |
| 13828      | Do.                             |
| 13835      | Trans International Airlines.   |
| 13836      | Do.                             |
| 13853      | Seturn Airways, Inc.            |
| 13854      | Do.                             |
| 13857      | Modern Air Transport, Inc.      |
| 13858      | Do.                             |
| 13860      | American Flyers Airline Corp.   |
| 13861      | Do.                             |
| 13862      | Do.                             |
| 13863      | Capitol Airways, Inc.           |
| 13864      | Do.                             |
| 13865      | Do.                             |
| 13867      | Johnson Flying Service, Inc.    |
| 13868      | Do.                             |
| 13874      | Conner Air Lines, Inc.          |
| 13875      | Do.                             |
| 13881      | Overseas National Airways, Inc. |
| 13882      | Do.                             |
| 13886      | California Air Charter, Inc.    |
| 13887      | Do.                             |
| 13888      | Richard D. Neumann.             |
| 13889      | Do.                             |
| 13904      | World Wide Airlines, Inc.       |
| 13905      | Do.                             |
| 13906      | U.S. Overseas Airlines, Inc.    |
| 13907      | Do.                             |
| 13912      | Zantop Air Transport, Inc.      |
| 13913      | Do.                             |
| 13915      | World Wide Airlines, Inc.       |
| 13916      | Do.                             |
| 13921      | Transocean Air Lines.           |
| 13922      | Do.                             |
| 13929      | Imperial Airlines, Inc.         |
| 13930      | Do.                             |
| 14044      | Edde Airlines, Inc.             |
| 14284      | Marshfield Airways, Inc.        |
| 14372      | Coral Airlines.                 |
| 14382      | Do.                             |
| 14464      | East Coast Flying Service, Inc. |
| 14529      | World Airways, Inc.             |
| 14530      | Do.                             |

The proceeding involving these applications has been assigned to Examiner Robert L. Park, and a prehearing conference will be announced and held at a later date.

In order to facilitate and expedite the Board's determination of the scope of the proceeding, the issues therein, and the manner in which the proceeding will be processed, parties are instructed to submit on or before August 5, 1963, written expressions of their views on these questions. Particular attention should be directed to the matter of processing, i.e., whether the applications should be heard in a single consolidated proceeding or in several separate phases. The written submissions shall be in the form of motions, and copies thereof shall be served on the parties and the Examiner and filed with the Docket Section in accordance with the Board's Rules of Practice in Economic Proceedings.

Written answers to the foregoing motions should be submitted and filed on or before August 19, 1963.

[SEAL] FRANCIS W. BROWN,  
Chief Examiner.

[P.R. Doc. 63-7576; Filed, July 17, 1963;  
8:57 a.m.]

## FEDERAL POWER COMMISSION

[Docket No. G-3210 etc.]

### SOUTHERN GAS CO. ET AL.

#### Notice of Applications, Petitions To Amend, and Date of Hearing

JULY 10, 1963.

Southeastern Gas Company, Docket No. G-3210; Humble Oil & Refining Company (Operator), et al., Docket No. G-5145; Skelly Oil Company, Docket No. G-9853; The Superior Oil Company, Docket No. G-9873; Hanley Company, Docket No. G-10096; Northwest Production Corporation (Operator), et al., Docket No. G-10686; Humble Oil & Refining Company, Docket No. G-13574; Humble Oil & Refining Company (Operator), et al., Docket No. G-15714; Shell Oil Company, Docket No. G-15987; F. E. Jameson, et al., Docket No. G-16090; Gulf Oil Corporation, Docket No. G-16139; Gulf Oil Corporation, Docket No. G-16218; Southern Crescent Corporation, Docket No. G-16778; Roy A. Lamb and A. G. Galt d/b/a Pan American Engineering Company, Docket No. G-16835; Roy A. Lamb and A. G. Galt d/b/a Pan American Engineering Company (formerly Herbert C. Wenske & William A. Kessler (Operator), et al.), Docket No. G-16877; Humble Oil & Refining Company, Docket No. G-16973; Shell Oil Company, Docket No. G-17560; Rip C. Underwood, Docket No. G-18585; The Pure Oil Company, Docket No. G-18881; Herman George Kaiser, Docket No. G-160-74; John P. Jennings (Operator),

UNITED STATES GOVERNMENT

# Memorandum

TO : Files

DATE: July 19, 1963

FROM : L. P. R. Huard, Chief, Administrative Branch  
Division of Licensing & Regulation

SUBJECT: Federal Register Notice, NEW ENGLAND TANK CLEANING CO.  
DOCKET NO. 27-8

Description: Notice of issuance of Amendment No. 6 to  
License No. 20-3541 for Byproduct, Source and Special  
Nuclear Material, dated July 11, 1963.

Citation: 28 FR 7364

Filing Date: July 17, 1963

Publication Date: July 18, 1963

Action Date: None

cc: N. Bassin  
Chron File

ITEM # 84

A/84 (3)

Files

July 19, 1963

L. P. R. Huard, Chief, Administrative Branch  
Division of Licensing & Regulation

Federal Register Notice, NEW ENGLAND TANK CLEANING CO.  
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Chron File

*Supra*

Files

July 19, 1963

L. P. R. Huard, Chief, Administrative Branch  
Division of Licensing & Regulation

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Citation: 28 FR 7364

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Action Date: None

cc: M. Bassin ✓  
Chron File

LR:DM  
27-8

JUL 24 1963

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. Elliot W. Bennett, Jr.  
President

Gentlemen:

This refers to the inspection conducted on May 2, 1963 of your activities authorized under ABC Byproduct Material License No. 20-3541-1.

It appears that certain of your activities were not conducted in full compliance with a condition of your license and the requirements of the AEC's "Standards for Protection Against Radiation," Part 20, Title 10, Code of Federal Regulations, in that:

1. Source material wastes received from New England Metal Laboratory during July, 1961 were not disposed of within 21 months from the date New England Tank Cleaning Company took possession of this material, contrary to license condition No. 10.

This requirement is presently listed under license condition No. 12.

2. The radiation areas existing in the shed and in the yard adjacent to the shed where millerite quantities of radioactive wastes were stored were not posted as required by 10 CFR 20.205(b), "caution signs, labels and signals."
3. Form ABC-3, "Notice to Employees," was not posted as required by 10 CFR 20.206(c), "Instruction of personnel; posting of notices to employees."

REGISTERED MAIL  
RETURN RECEIPT REQUESTED

ITEM #

86

D/85

New England Tank  
Cleaning Company

- 2 -

JUL 24 1963

4. No record was maintained of the survey conducted during April, 1963 of the three containers of radioactive wastes received from Tufts Medical School, so as to assure compliance with 10 CFR 20, contrary to 10 CFR 20.401(b), "Records of surveys, radiation monitoring and disposal." Also, records of surveys conducted of the shed where radioactive wastes were stored were not maintained in the units specified in 10 CFR 20, contrary to 10 CFR 20.401(b). The results of such surveys were maintained only as "OK."

This notice is sent to you pursuant to the provisions of Section 2.201 of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of which is enclosed. Section 2.201 requires you to submit to this office, within twenty (20) days of your receipt of this notice, a written statement or explanation in reply including (1) corrective steps which have been taken by you, and the results achieved; (2) corrective steps which will be taken; and (3) the date when full compliance will be achieved.

Enclosed is a sample sign containing the coloring, wording and symbol which meets the requirements of 10 CFR 20.203(b). Signs more suitable for posting might be procured from a radioisotope supplier or a commercial sign company.

Also enclosed is a copy of Form AEC-3. Additional copies, if needed, may be obtained by writing the Director, Region I, Division of Compliance, U. S. Atomic Energy Commission, 376 Hudson Street, New York 14, New York.

Very truly yours,

Eber R. Price  
Assistant Director  
Division of Licensing  
and Regulation

Enclosures:

1. 10 CFR 20
2. 10 CFR 2
3. Sign: "Caution - Radiation Area"
4. Form AEC-3



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON 25, D.C.

*Salmon*

IN REPLY REFER TO

LR:RH  
27-8

AUG 13 1963

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. Eliot W. Denault, Jr.  
President

Gentlemen:

Thank you for your letter of July 29, 1963, informing us of the steps taken by you to correct those deficiencies in your AEC licensed program which we brought to your attention in our notice of July 24, 1963. These matters will be reviewed during the next inspection of your facilities.

Immediate steps should be taken to assure that records will be maintained of surveys conducted to determine compliance with 10 CFR 20.

Your cooperation with us is appreciated.

Very truly yours,

Eber R. Price  
Assistant Director  
Division of Licensing  
and Regulation



NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF PROPOSED ISSUANCE OF A BYPRODUCT MATERIAL LICENSE  
TO PROVIDE RADIOACTIVE WASTE DISPOSAL SERVICE

Please take notice that the Atomic Energy Commission proposes to issue a Byproduct Material License to New England Tank Cleaning Company, 135 First Street, Cambridge 41, Massachusetts, substantially in the following form, authorizing the disposal of waste byproduct material in the Atlantic Ocean at a minimum depth of 1000 fathoms unless within fifteen (15) days after filing of this notice with the Federal Register Division a request for a formal hearing is filed with the Commission in the manner prescribed by Title 10, Code of Federal Regulations, Chapter 1, Part 2, "Rules of Practice".

The Atomic Energy Commission has found that:

- (a) The applicant's proposed equipment, facilities, and procedures are adequate to protect health and minimize danger to life or property;
- (b) The applicant is qualified by training and experience to perform the proposed sea waste disposal service for packaged byproduct material in such a manner as to protect health and minimize danger to life or property; and
- (c) The issuance of a Byproduct Material License to New England Tank Cleaning Company will not be inimical to the health and safety of the public.

For further details see (1) the application submitted by the New England Tank Cleaning Company, and amendments thereto; (2) a memorandum prepared by the Division of Licensing and Regulation which summarizes the principal factors considered in reviewing the application for license; and (3) a copy of Appendix A to the license containing a description of container specifications substantially similar to those contained in Title 49, Code of Federal Regulations, Part 78, referred to in Condition 6 of the license; all on file at the Commission's Public Document Room 1717 H Street, N. W., Washington, D. C.

Washington 25, D. C., Attention: Director, Division of Licensing and Regulation.

FOR THE ATOMIC ENERGY COMMISSION

H. L. Price  
Director  
Division of Licensing and Regulation

Dated at Germantown, Maryland, .

this \_\_\_\_ day of August, 1958.

NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

License No. 20-3541-1  
(B60)

Pursuant to the Atomic Energy Act of 1954, as amended, and Title 10, Code of Federal Regulations, Chapter 1, Part 30, "Licensing of Byproduct Material", and in reliance upon statements and representations heretofore made by the applicant, a license is hereby issued to New England Tank Cleaning Company, 135 First Street, Cambridge 41, Massachusetts, to receive, possess, package, and dispose of byproduct material in the Atlantic Ocean.

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 the provisions of Title 10, Code of Federal Regulations, Chapter 1, Part 20, "Standards for Protection Against Radiation", and all other applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to the following conditions:

1. The licensee shall not possess more than 1000 curies of byproduct material at any one time.
2. Byproduct material shall be received, possessed, packaged, and disposed of by or under the direct supervision of Norman C. Rasmussen.
3. The licensee shall receive, package, possess, and dispose of the byproduct material in accordance with the procedures described in the licensee's application dated December 19, 1957, and attachments thereto; and the licensee's letters dated January 17, 1958, February 4, 1958, February 27, 1958, April 1, 1958, and June 20, 1958; except as provided otherwise in this license.
4. A copy of "General Instructions for Personnel Handling Radioactive Substances", "Emergency Procedures", "General Instructions for Vehicular Accidents", "Personal Decontamination Procedures", and "Special Instructions for Final Packaging Operations", as described in the licensee's

packaging, and disposal of byproduct material.

5. Byproduct material received from customers shall be prepackaged in containers which shall not be opened at any time by the New England Tank Cleaning Company, and which shall meet the requirements of Condition 6 of this license. The licensee shall instruct each customer to package the waste material in such a manner as to assure the absence of any significant voids.
6. Intrastate transportation of AEC-licensed material to the location designated in Condition 7 shall be in accordance with the following requirements except as specifically approved by the Atomic Energy Commission:

A. Outside Shipping Containers

- (1) The containers shall meet any one of the following specifications described in Appendix A attached hereto:
  - a. 15A, 15B, 12B, 6A, 6B, 6C, 17C, 17H, 19A, or 19B for the containment of radioactivity in amounts not in excess of 2.0 curies; or
  - b. Specification 55 for containment of solid cobalt 60, cesium 137, iridium 192, or gold 198 in amounts not in excess of 300 curies.
- (2) There shall be no radioactive contamination on any exterior surface of the container in excess of 500 d/m/100 sq. cm. alpha and 0.1 mrep/hr beta-gamma radiation.
- (3) The smallest dimension of the container shall not be less than 4 inches.
- (4) The radiation level at any accessible surface of the container shall not exceed 200 mrem/hr.
- (5) At one meter from any point on the radioactive source the radiation level shall not exceed 10 mrem/hr.

to prevent the escape of primary corpuscular radiation to the exterior surface and to reduce the secondary radiation at the surface of the container to at least 10 mrem/24 hours at any time during transportation.

B. Inside Containers

- (1) Solid and gaseous radioactive materials shall be packed in suitable inside containers designed to prevent rupture and leakage under conditions incident to transportation.
- (2) Liquid radioactive materials must be packed in sealed glass, earthenware, or other suitable containers. The container must be surrounded on all sides by an absorbent material sufficient to absorb the entire liquid contents and be of such nature that its efficiency will not be impaired by chemical reactions with the contents. Where shielding is required the absorbent material must be placed within the shield. If the inside container meets the Specification 2R in Appendix A the absorbent material is not required.
- (3) Materials containing radioisotopes of plutonium, americium, polonium, or curium, or the isotope strontium 90, in quantities in excess of 100 microcuries, must be packed in containers which meet Specification 2R in Appendix A.

C. Shielding

Inside containers must be completely surrounded with sufficient shielding to meet the requirements of subparagraphs A (4), A (5), and A (6) of this condition. The shield must be so designed that it will not open or break under normal conditions incident to transportation.

D. Labeling

Each outside container label required under Section 20.203 (f)(1) of 10 CFR 20 shall bear the following information:

and special nuclear material, the total weight;

- (2) principal radioisotope;
- (3) radiation level at the surface of the container and at one meter from the source; and
- (4) the name and address of the licensee.

E. Each vehicle in which licensed material is transported shall be marked or placarded on each side and the rear with lettering at least 3 inches high as follows: CAUTION - RADIOACTIVE MATERIAL.

F. Accidents

In the event of an accident involving any vehicle transporting licensed material, immediate steps shall be taken to prevent radiation exposure of persons and to control contamination.

G. Exemptions

Specific approval must be obtained from the Atomic Energy Commission for modification of, or exemption from, the requirements of this license condition. Requests for such approval should be directed to the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, and should contain sufficient information to support such a request.

7. The licensee shall store and package byproduct material for sea disposal at Great Brewster Island, Boston Massachusetts.
8. The licensee shall dispose of byproduct material in an area bounded by the parallels of Latitude  $41^{\circ} 38' N.$  and  $41^{\circ} 28' N.$  and by the meridians of Longitude  $65^{\circ} 28' W.$  and  $65^{\circ} 45' W.$  at a minimum depth of 1000 fathoms.
9. The licensee shall notify the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, at least 20 days prior to each disposal, by letter deposited in the United States mail properly stamped and addressed. This notification shall contain the following information: the proposed date for disposal, the total

hazardous radioisotope contained in each container.

10. A curie of Iridium 192 is defined as that quantity of activity which presents a radiation intensity of 0.55 roentgen per hour at a distance of one meter.

This license shall be effective on the date issued and shall expire on August 31, 1960.

FOR THE ATOMIC ENERGY COMMISSION

J. R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Date of Issuance:

LR:RH  
27-8

AUG 13 1963

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. Eliot W. Bensusant, Jr.  
President

Gentlemen:

Thank you for your letter of July 29, 1963, informing us of the steps taken by you to correct those deficiencies in your AEC licensed program which we brought to your attention in our notice of July 24, 1963. These matters will be reviewed during the next inspection of your facilities.

Immediate steps should be taken to assure that records will be maintained of surveys conducted to determine compliance with 10 CFR 20.

Your cooperation with us is appreciated.

Very truly yours,

Eber R. Price  
Assistant Director  
Division of Licensing  
and Regulation

cc: Compliance Div., HQ) w/cpy ltr 7/29/63  
Compliance Div., I.)

ITEM # 80

|           |                               |          |  |  |  |  |
|-----------|-------------------------------|----------|--|--|--|--|
| OFFICE ▶  | LR:EB                         | LR       |  |  |  |  |
| SURNAME ▶ | RE/b...<br><i>[Signature]</i> | ER Price |  |  |  |  |
| DATE ▶    | 8/8/63                        |          |  |  |  |  |

P/86 *[Signature]*

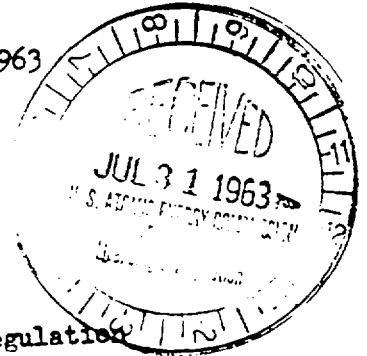


# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

July 29, 1963



United States Atomic Energy Commission  
Washington 25, D.C.

Attention of Mr. Eber R. Price, Assistant Director  
Division of Licensing & Regulation

Re: LR:RH 27-8

Dear Sir:

In reply to your letter of July 24, 1963 we wish to note the following:

- 1) All waste materials on site April, 1963 have been shipped and received by Oak Ridge.
- 2) The areas being utilized are now posted as required by 10 CFR 20.203 (b) "Caution signs, labels and signals."
- 3) Form AEC - 3 "Notice to Employees" has been received and properly posted.
- 4) Future shipments will be conducted in accordance with 10 CFR 20. In addition, surveys of storage area will be maintained as per 10 CFR 20.

Hoping that the above answers your letter of July 24, 1963.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

*Eliot W. Denault, Jr.*  
Eliot W. Denault, Jr. President

EWD/k

ACKNOWLEDGED

LR:EH  
27-8

16  
JUL 24 1963

New England Tank Cleaning Company  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. Eliot W. Benault, Jr.  
President

Gentlemen:

This refers to the inspection conducted on May 2, 1963 of your activities authorized under AEC Byproduct Material License No. 20-3541-1.

It appears that certain of your activities were not conducted in full compliance with a condition of your license and the requirements of the AEC's "Standards for Protection Against Radiation," Part 20, Title 10, Code of Federal Regulations, in that:

1. Source material wastes received from New England Metal Laboratory during July, 1961 were not disposed of within 21 months from the date New England Tank Cleaning Company took possession of this material, contrary to License Condition No. 10.

This requirement is presently listed under License Condition No. 12.

2. The radiation areas existing in the shed and in the yard adjacent to the shed where millicurie quantities of radioactive wastes were stored were not posted as required by 10 CFR 20.203(b), "Caution signs, labels and signals."
3. Form AEC-3, "Notice to Employees," was not posted as required by 10 CFR 20.206(c), "Instruction of personnel; posting of notices to employees."

REGISTERED MAIL

New England Tank  
Cleansing Company

JUL 24 1963

4. No record was maintained of the survey conducted during April, 1963 of the three contractors of radioactive wastes received from Tufts Medical School, so as to assure compliance with 10 CFR 20, contrary to 10 CFR 20.401(b). "Records of surveys, radiation monitoring and disposal." Also, records of surveys conducted of the shed where radioactive wastes were stored were not maintained in the units specified in 10 CFR 20, contrary to 10 CFR 20.401(b). The results of such surveys were maintained only as "OK."

This notice is sent to you pursuant to the provisions of Section 2.201 of the ABC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of which is enclosed. Section 2.201 requires you to submit to this office, within twenty (20) days of your receipt of this notice, a written statement or explanation in reply including (1) corrective steps which have been taken by you, and the results achieved; (2) corrective steps which will be taken; and (3) the date when full compliance will be achieved.

Enclosed is a sample sign concerning the coloring, wording and symbol which meets the requirements of 10 CFR 20.203(b). Signs more suitable for posting might be procured from a radiotelephone supplier or a commercial sign company.

Also enclosed is a copy of Form ABC-3. Additional copies, if needed, may be obtained by writing the Director, Region I, Division of Compliance, U. S. Atomic Energy Commission, 376 Hudson Street, New York 14, New York.

Very truly yours,

bcc: Compliance Div., HQ  
Compliance Div., I

Robert L. Price  
Assistant Director  
Division of Licensing  
and Regulation

- Enclosures:
1. 10 CFR 20
  2. 10 CFR 2
  3. Sign: "Caution - Radiation Area"
  4. Form ABC-3

|           |             |         |  |  |
|-----------|-------------|---------|--|--|
| OFFICE ▶  | LR:EB       | LR      |  |  |
| SURNAME ▶ | R.H. ITA:EB | ERP:ICP |  |  |
| DATE ▶    | 7-22-63     |         |  |  |

UNITED STATES GOVERNMENT

# Memorandum

RH  
JUN 21 1963

TO : E. R. Price, Assistant Director  
Division of Licensing and Regulation, HQ

DATE:

FROM : R. S. Cleveland, Radiation Specialist (Review)  
Region I, Division of Compliance *RSC*

SUBJECT: TRANSMITTAL OF LICENSE COMPLIANCE INSPECTION REPORT -  
10 CFR 30 - 40 - 70

CO:I:AJF

Transmitted herewith for appropriate enforcement action is the following inspection report involving noncompliance:

NEW ENGLAND TANK CLEANING COMPANY  
135 First Street  
Cambridge, Massachusetts

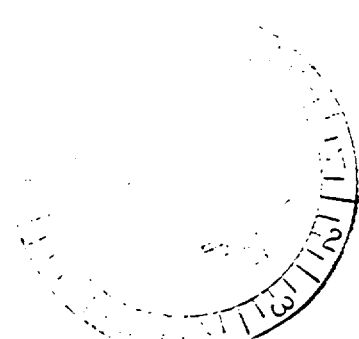
License No. 20-3541-1 w/amends. 1 - 5

Noncompliance was discussed with Mr. Eliot Denault, Jr., during and subsequent to the inspection. Denault, who is the President of the Company, stated that he would take the corrective action necessary to achieve compliance with the regulations.

Regarding item 1, we note that excessive durations of possession is a repeated item (observed two inspections ago). Denault stated that he was aware of it about the middle of April, at which time he initiated correspondence to have the material shipped to Oak Ridge. Because of delays, the final approval had not been received, but Denault felt the shipment would be made in the near future.

With respect to items 2 and 3, Forms AEC-3 and samples of the signs specified by Section 20.203(b) were sent to the licensee after the inspection.

As noted in paragraph 16, Denault's survey meters were not operating at the time of the inspection. Denault



stated that he was relying on his consultant's instruments and did not plan to put the instruments into operation until such time as he would resume an active program. Even though the program is inactive, in case of an emergency at the shed (e.g., a fire), the instruments should be available to the licensee for radiation protection purposes. On this basis, the inspector suggested to Denault that he have his instruments repaired and calibrated. Denault said he would do this, but L&R may wish to bring this matter to the attention of the licensee.

A significant hazard does not appear to exist in the items of noncompliance and a follow-up inspection will not be scheduled.

Enclosure:  
1 cy of Rpt

cc: CO:HQ  
w/orig of Rpt

I-B

COMPLIANCE INSPECTION REPORT

|   |   |
|---|---|
| 1. Name and address of licensee<br><b>NEW ENGLAND TANK CLEANING COMPANY</b><br>135 First Street<br>Cambridge, Massachusetts | 2. Date of inspection<br><b>May 2, 1963</b>         |
|   | 3. Type of inspection <b>Reinspection</b>           |
|   | 4. 10 CFR Part(s) applicable<br><b>30 - 40 - 70</b> |
|   |   |

5. License number(s), issue and expiration dates, scope and conditions (including amendments)

| <u>License No.</u>       | <u>Docket No.</u> | <u>Date of Issue</u> | <u>Exp. D.</u> |
|--------------------------|-------------------|----------------------|----------------|
| 20-3541-1 (Reinspection) |                   |                      |                |
| Amend. 1                 | 27-8              | 12/11/58             | 9/60           |
| Amend. 2                 | "                 | 12/11/58             | "              |
| Amend. 3                 | "                 | 12/31/58             | "              |
| Amend. 4                 | "                 | 4/23/59              | "              |
| Amend. 5                 | "                 | 3/16/61              | 3/63           |

(For Scope and Conditions See Report Details)

6. Inspection findings (and items of noncompliance)

The New England Tank Cleaning Company operates government pipelines and tank farms associated with USAF Bases located throughout the world. The Company possesses a waste disposal license under which only 3 barrels of low-level radioactive waste have been procured since the last inspection. The President, Mr. Eliot Denault, Jr., is the only person in the Company who is currently involved in the disposal program. The licensee's consultant, Dr. Norman Rasmussen, is a professor of Nuclear Engineering at MIT. No transfers of waste were made, but the licensee is planning a shipment to Oak Ridge in the near future. Rasmussen performed a radiation survey of the licensee's facilities in April, 1963. The only items of noncompliance observed or otherwise noted during the course of this inspection are as set out below:

- Condition 10  
- in that not all waste source material had been disposed of within 21 month from the date at which the New England Tank Cleaning Company took possession (See paragraph 22 of the report details).
- Section 20.203(b)  
- in that the radiation areas existing in the shed and in the yard adjacent to the shed in which millicurie amounts of radioactive waste were stored

(CONT'D)

7. Date of last previous inspection

August 17, 1962

8. Is "Company Confidential" information contained in this report? Yes  No   
(Specify page(s) and paragraph(s))

DISTRIBUTION:

Orig. - CO:HQ  
1 cy. - DL&R  
2 cys. - CO:I

Approved by:

**Archibald J. Fleming**

(Inspector)

**R. S. Cleveland, Radiation Specialist (Review), Region I**  
Division of (Operations office) Compliance

June 18, 1963

(Date report prepared)

If additional space is required for any numbered item above, the continuation may be extended to the reverse of this form using foot to bottom, leaving sufficient margin at top for binding, identifying each item by number and noting "Continued" on the face of form in appropriate item.

ITEM 6 (CONT'D)

were not posted as required by this section. (See paragraph 19 of the report details).

3. Section 20.206(e)
  - in that a Form AEC-3 "Notice to Employees" had not been posted in or near a restricted area which was being used for storage of radioactive waste. (See paragraph 21 of the report details).
4. Section 20.401(b)
  - in that a record of a survey of 3 waste containers received from the Tufts Medical School was not maintained. (See paragraph 18 of the report details).
5. Section 20.401(b)
  - in that records of radiation surveys of the areas of occupancy in and around the shed in which were stored millicurie quantities of radioactive waste were not maintained in the appropriate dose units listed in 10 CFR 20.4 per unit time. (See paragraph 19 of the report details).

PART 30 - 40 - 70 INSPECTION

NEW ENGLAND TANK CLEANING COMPANY  
135 First Street  
Cambridge, Massachusetts

Date of Inspection: May 2, 1963 (Announced)

Persons Accompanying Inspector:

Mr. Robert L. Devlin, Industrial Radiation Control Supervisor,  
Department of Labor and Industries, Division of Industrial  
Safety, Commonwealth of Massachusetts

Persons Contacted:

Mr. Eliot Denault, Jr., President

DETAILS

Background Information

9. No item of noncompliance was noted in the initial inspection performed by this office on 12/16/58. A reinspection on 7/21/60 noted noncompliance with Section 20.401(a) "Records of Surveys." In a letter dated 10/5/60, L&R stated that the licensee's survey records would be reviewed during the next inspection of his facilities. A second reinspection on 6/8/61 noted noncompliance with License Condition 10 which requires that waste material be disposed of within 21 months from the date upon which the licensee first takes possession. Correspondence between L&R and the licensee about this item of noncompliance extended from 11/30/61 up to 2/28/62, at which time L&R informed the licensee that corrective action would be reviewed during the next inspection of the facilities.
10. A third reinspection was performed on 8/17/62. In a letter to the licensee dated 10/5/62 L&R informed the licensee that contamination surveys of waste containers received from customers were not conducted as required by Section 20.201(b) "Surveys." In a letter of 10/8/62 the licensee reported that they were currently inactive in the waste disposal field but in the event of future receipts, their consultant, Dr. Norman Rasmussen, would be present to supervise these activities. L&R informed the licensee by letter dated 10/14/62 that the corrective action taken for the deficiency would be reviewed during the next inspection of the facility. The current status of this matter is discussed in paragraph 18 of the report details.

Organization and Administration

11. The organization and administration of New England Tank Cleaning Company are essentially the same as described in previous inspection reports. The President, Mr. Eliot Denault, Jr., is the only person in the Company who is currently involved in the disposal program. The Company, which is owned by the Denault family, operates government pipelines and tank farms associated with USAF Bases throughout the world. The licensee's consultant and RSO is



Dr. Norman Rasmussen. Rasmussen is a Professor of Nuclear Engineering at MIT where he has been involved in various radioisotope and reactor programs since 1952. Since the last inspection, the waste disposal activities of the licensee had been limited to the receipt of only three barrels of low level radioactive waste. Rasmussen's participation has consisted of a single visit to the licensee's facility in 4/63. Joel E. Bulkley, an authorized user, has not participated in the licensee's program. Denault reported that he is going to remove Bulkley from the license for reasons of health.

#### Facilities

12. The office of the New England Tank Cleaning Company is located at 135 First Street, Cambridge, Massachusetts. Records pertinent to the license were maintained and reviewed at this address. The building where waste material is stored prior to disposal is located in the National Dockyard Area in East Boston. The Dockyard area, which is about a mile from the Company's offices, is a privately owned property. In the Dockyard, Denault owns a total of 65,000 sq. ft. of floor space which was formerly the Merchants Wool Scouring Company building, a frame and brick structure. The structure is located on Mill and Webster Streets, but, because the Dockyard is private property, these streets are not listed on Boston maps. The entrance nearest to the structure is referred to as the Lewis Street entrance.
13. Because of the limited activities of the program, Denault is using only a one story shed of about 6,000 sq. ft. which is attached to the main part of the building. Drums of waste were observed to be situated along one side (the west wall) and rear (the south wall) of this shed. Company equipment and vehicles were stored in a haphazard fashion in the other parts of the shed. Denault stated that he had recently installed a sprinkler system (protected against freeze-up) in the shed. It was noted that no electric lighting was available. Waste for the most part was contained in 30 and 55 gallon metal drums. Reportedly, the roof of the shed had been recently repaired. It was raining during this inspection, but no rain was observed to be leaking into the storage area.
14. Denault stated that no transfers had been made since the last inspection, so that the material on hand consisted of that listed in the previous report. Denault specifically confirmed this was approximately 51 mc of waste byproduct material and approximately 50 mc of various packaged waste containing  $UH_6$  and  $UO_2$ . The material was stored in 92 metal barrels (30 and 55 gallon drums) and in two boxes. On 4/19/63, Denault drew up a list of material that he planned to ship to Oak Ridge in the near future:

Seventy 50 gallon drums from Yankee Atomic (principal activity Co-58); Twelve 30 gallon drums from Tufts University Medical School and MEMC (principal activity C-14); one 6' x 6' x 6' box from Portsmouth Naval Shipyard (principal activity Fe-59 and Co-60); and one 2' x 2' x 2' box from the Leader Iron works (principal activity Co-60 and Co-58).

#### Waste Disposal Activities

15. Denault stated that since the last inspection he had received from the Tufts Medical School only three 30 gallon drums of waste. The amounts contained in the three drums were: 1) less than one mc of C-14; 2) 200 mc of C-14; and 3) less than 200 mc of C-14. The

first two drums were sent to the Dockyard by common carrier on 12/7/62. The third drum was picked up by Denault at the school on 4/23/63. Denault stated that no other activities or handling of the waste had been performed and that the only activity that he was planning was the shipment to ORNL via a commercial trucking firm.

Radiation Detection Instrumentation

- 16. Denault had available a Juno Model SRJ-3 survey meter (0-5 mr/hr) and a Universal Atomic Model 700 GM survey meter (0-50 mr/hr) in his office at 135 First Street in Cambridge. Denault stated that neither of these instruments was working and both required servicing and batteries. Rasmussen reportedly brings instruments from MIT which he uses to perform a radiation survey when he visits the storage facility. According to Denault, Rasmussen can bring survey instruments from MIT when needed.

Radiation Safety Instructions

- 17. Denault stated that he and Rasmussen were the only individuals who were currently involved in the program. Denault had available copies of the license, 10 CFR 20, and written instructions covering handling procedures, protective clothing to be worn, contamination control, the use of personnel and survey monitoring devices, and steps to be taken in case of emergencies. Denault confirmed his training had consisted of a course in radiation safety and that he has periodic discussions with Rasmussen about radiation safety procedures. Denault stated that if questions of radiation safety arose, they would be referred to Rasmussen.

Radiation Surveys, Posting & Labeling

- 18. Denault stated that Rasmussen surveyed the three drums using an open window GM survey meter received from the Tufts Medical School in a visit that he made to the Dockyard late in April. According to Denault, Rasmussen's surveys of the drums had shown that no level in excess of background (0.05 mr/hr) existed at the surface of the drums. No records were maintained of the survey. Denault said that no smears had been taken to determine the presence of loose contamination, but it was noted that the license requires only that there be no radioactive contamination on any exterior surface of the container in excess of 500 d/s/100 sq. centimeter alpha and 0.1 mrep/hr beta-gamma radiation. During the inspection, the inspector surveyed the drums using an open window NRC GS-2 GM survey meter. The radiation levels at the surface of these three drums were those of background, i.e. (0.02 mr/hr).
- 19. Denault reported that periodic surveys of radiation levels in the waste storage area and in the areas adjacent to the shed were performed by Rasmussen. The dates for approximately six of these surveys over the past few years were recorded in Denault's log-book, but the results were listed only as "OK." An independent survey of the storage shed indicated levels in the general area around the drums to be about 10 mr/hr. Outside of the shed was a yard which reportedly had been fenced off prior to this inspection. A radiation survey of the yard indicated levels of 1.5 mr/hr, at distances of 3' from the wall. Denault stated that this was a restricted area inasmuch as the Dockyard is opened only during working hours Monday through Saturday (a maximum of 50 hours a week). At other times, the Dockyard which is fenced in is kept closed and guards patrol the area. The guards have been reportedly informed of the presence of the drums of radioactive waste. A sign at the entrance to the Dockyard confirmed

that the area was kept closed at night and on weekends. The entrance and inside of the shed in which the drums of waste were being stored were observed to be posted with signs bearing the radiation symbol and the words "Caution - Radioactive Material(s)." No sign was observed to bear the words "Radiation Area" within the shed. The area in which the radiation levels of 1.5 mr/hr (180 mr/5 days) existed was found not posted at all. Denault stated that Rasmussen had been responsible for posting the area. At the rear of the waste storage shed was a wood working shop which had reportedly been put into operation only recently. The radiation survey along the wall adjacent to the storage shed indicated levels which ranged up to 0.25 mr/hr in areas capable of occupancy.

20. Although Denault had been recording Rasmussen's performance of radiation surveys in the areas of occupancy it was not possible for the inspector to determine from the work "OK" what signs were required to be posted for compliance with Section 20.205 of 10 CFR Part 20. A review of the labeling of the drums revealed that they bore ICC shipping labels which showed the surface dose rate measurements and an estimate of the activity contained therein. Containers bore labels with the standard radiation symbol and the words "Caution - Radiation Material."

#### Storage and Security of Material

21. At night, on weekends, and holidays the Dockyard is kept locked and it is maintained under the surveillance of guards. The doorway to the shed was observed and was reported to be kept padlocked. The keys are kept in Denault's possession and a visual check of the room indicated that the only method of obtaining access was through this door, as the walls and windows were sealed off. Denault stated that he considered the locked storage shed a restricted area. A Form AEC-3 "Notice to Employees" was not observed by the inspector to have been posted. Upon inquiry as to whether a Form AEC-3 was posted in the area, Denault could not find one to be posted.

#### Transfers & Disposal of Radioactive Waste

22. Denault keeps a running inventory of the drums of waste in storage. As determined by a review of the inventory and as confirmed by Denault's statements, he had had in storage four drums, each containing 50 pounds, which had been received from the New England Metal Laboratory in Medford, Massachusetts on 7/25/61. These drums contained  $UH_2$ , having an activity of less than 1 mc. Condition 10 of the license requires waste material to be disposed within 21 months from the date at which the New England Tank Cleaning Company takes possession of such material.

#### Personnel Monitoring

23. Denault stated that prior to each pickup of radioactive waste containers he obtains a film badge from Controls for Radiation in Cambridge. At the completion of the operation he returns it to the Controls for Radiation for processing. A review of the film badge records indicated that all exposures have been less than 10 mrem.

#### Records

24. Records of procurement, surveys, inventory, and personnel monitoring results were maintained and reviewed.

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT MATERIAL LICENSE

Please take notice that the Atomic Energy Commission has issued the following Amendment (No. 3) to License No. 20-3541-1 authorizing the New England Tank Cleaning Company, as requested in its application for license amendment dated December 10, 1958, to receive, possess, package and dispose of source and special nuclear material in the Atlantic Ocean. License No. 20-3541-1 issued on October 9, 1958 previously authorized the receipt, possession, packaging and disposal of byproduct material in the Atlantic Ocean.

It appears that the receipt, possession, packaging and disposal of source and special nuclear material in accordance with the terms and conditions of License No. 20-3541-1, as amended, will be conducted in such a manner as to protect the health and safety of the public and minimize danger to life or property.

In accordance with the Commission's "Rules of Practice" (10 CFR 2) the Commission will direct the holding of a formal hearing on the matter of the license amendment upon receipt of a request therefor from the licensee or an intervener within thirty days after the issuance of the license amendment. The notice of receipt of an application for amendment to License No. 20-3541-1 was published

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in the FEDERAL REGISTER on December 29, 1958. For further details  
see the application for amendment at the Commission's Public Document  
Room, 1717 H Street, N. W., Washington, D. C.

FOR THE ATOMIC ENERGY COMMISSION

*James R. Mason*

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Dated at Germantown, Maryland  
this 21<sup>st</sup> day of December, 1958

NEW ENGLAND TANK CLEANING COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO BYPRODUCT MATERIAL LICENSE

Please take notice that the Atomic Energy Commission has issued the following amendment (No. 2) to License No. 20-3541-1 authorizing the New England Tank Cleaning Company as requested in its application for license amendment dated November 4, 1958, to store and package byproduct material for sea disposal in the licensee's warehouse in the National Dock Yard, Lewis Street, East Boston, Massachusetts. Under License No. 20-3541-1, the licensee has been authorized to store and package such material for sea disposal at Great Brewster Island, Boston, Massachusetts. The warehouse is of brick (sides) and frame (roof) construction with concrete and wood flooring. It is fully equipped with a fire sprinkler system. The National Dock Yard area is secured against unauthorized entry by a 12-foot high fence and a watchman.

It appears that the storage and packaging of the waste byproduct material in accordance with the terms and conditions of License No. 20-3541-1 will be conducted in such a manner as to protect the health and safety of the public and minimize danger to life or property.

In accordance with the Commission's "Rules of Practice" (10 CFR 2) the Commission will direct the holding of a formal hearing on the matter of the issuance of the license amendment upon receipt of a request therefor from the licensee or an intervener within thirty

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days after the issuance of the license amendment. For further details, see the application for license amendment submitted by New England Tank Cleaning Company, which is on file at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. A copy of the application may be obtained at the Commission's Public Document Room or upon request addressed to the Atomic Energy Commission, Washington 25, D. C., Attention: Director, Division of Licensing and Regulation.

FOR THE ATOMIC ENERGY COMMISSION

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Dated at Germantown, Maryland  
this \_\_\_\_\_ day of December, 1958.



**ATOMIC ENERGY CONTROL ACT AND SPECIAL NUCLEAR MATERIAL LICENSE**

**NEW YORK STATE CLIMATE CONTROL**

**FORM NO. 27-2**

**LICENSE NO. 20-2541-1  
(061)**

**AMENDMENT NO. 5**

In accordance with your applications dated June 17 and July 21, 1960, License No. 20-2541-1 is hereby amended as follows:

The expiration date is extended from September 30, 1960 to March 31, 1963 and the symbol below the license number is changed from MO to 061.

Condition 8 is amended to add the following:

8. The licensee may also dispose of solid waste byproduct, source and special nuclear material by transfer to AEC designated land burial sites. Waste material transferred for land burial need not be packaged in concrete sea disposal containers as described in the application, but shall be packaged in accordance with Condition 6 of this license.

Condition 9 is amended to read as follows:

9. The licensee shall notify the Chief, Inspection Branch, Division of Licensing and Regulation, Atomic Energy Commission, Washington 25, D. C., and the Director, Division of Compliance, New York Operations Office, Atomic Energy Commission, 376 Nelson Street, New York 14, New York, by letter deposited in the United States

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1/59 (A)



mail properly stamped and addressed, at least 30 days prior to each sea disposal, of the proposed date for disposal, the total number of containers, the total activity of byproduct material in millicuries, the total amount of source material in pounds and the total amount of special nuclear material in grams.

License No. 28-1561-1 is further amended to delete specific references to sea disposal in the Atlantic Ocean from the preamble and Conditions 7 and 10 thereof in order to reflect the additional authorization to transfer licensed waste material to AEC designated sites for land burial.

This amendment is effective as of the date of issuance.

**FOR THE ATOMIC ENERGY COMMISSION**

R. Lowenstein

Acting Director  
Division of Licensing and Regulation

**Date of Issuance:**

MAR 16 1961

12/9/54

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3. Amend Condition 6 A(1) to read as follows:

and  
in accordance with the following requirements except as  
and where such regulations are not applicable shall be  
of the United States having appropriate jurisdiction,  
Commission, United States Coast Guard and other agencies  
to the applicable regulations of the Interstate Commerce  
the location designated in Condition 7 shall be subject  
6. The transportation of AEC-licensed material to and from

thereof the following paragraph:  
A. Delete the first paragraph of Condition 6 and to insert in lieu

to amend to:  
In accordance with letter dated March 25, 1954, License No. 20-2541-1

License No. 20-2541-1  
(150)  
Amendment No. 4

DOCKET NO. 27-3

RESEARCH, SOURCE AND SPECIAL NUCLEAR MATERIAL LICENSE  
NEW ENGLAND FARM CLEANING COMPANY



Date of Issuance:

James R. Mason, Chief  
Isotopes Branch  
Division of Licensing and Regulation

FOR THE ATOMIC ENERGY COMMISSION

This amendment is effective as of the date of issuance.  
The containment of radioactivity in amounts not in  
excess of 2.7 curies, except polonium, 2 curies."

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF ISSUANCE OF AN AMENDMENT TO BYPRODUCT,  
SOURCE AND SPECIAL NUCLEAR MATERIAL LICENSE

Please take notice that the Atomic Energy Commission has issued Amendment No. 6 to License No. 20-3541-1 held by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts, which provides for renewal of the license for a period of two years.

The license provides for the receipt, storage and repackaging of 1,000 curies of byproduct material, 50 pounds of source material, and 5 grams of special nuclear material at the licensee's warehouse located in the National Dock Yard, Lewis Street, East Boston, Massachusetts. The license further provides that the waste radioactive material may be disposed of by transfer to an authorized land burial site or by disposal at sea in an area bounded by the parallels of  $41^{\circ} 38'$  N. and  $41^{\circ} 28'$  N. and by the meridians of  $65^{\circ} 28'$  W. and  $65^{\circ} 45'$  W. at a minimum depth of 1,000 fathoms.

The license amendment provides only for the continuation of activities previously authorized. The Commission has determined pursuant to the provisions of 10 CFR Parts 2, 30, 40 and 70 that the issuance of the amendment is consistent with applicable provisions of law, regulations and orders issued by the Commission.

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101 6





## BYPRODUCT MATERIAL LICENSE

NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

License No. 20-3541-1  
(160)

Pursuant to the Atomic Energy Act of 1954, as amended, and Title 10, Code of Federal Regulations, Chapter 1, Part 30, "Licensing of Byproduct Material", and in reliance upon statements and representations heretofore made by the applicant, a license is hereby issued to New England Tank Cleaning Company, 135 First Street, Cambridge 41, Massachusetts, to receive, possess, package, and dispose of byproduct material in the Atlantic Ocean.

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 the provisions of Title 10, Code of Federal Regulations, Chapter 1, Part 20, "Standards for Protection Against Radiation", and all other applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to the following conditions:

1. The licensee shall not possess more than 1000 curies of byproduct material at any one time.
2. Byproduct material shall be received, packaged, and disposed of by or under the direct supervision of Norman C. Rasmussen.
3. The licensee shall receive, package, possess, and dispose of the byproduct material in accordance with the procedures described in the licensee's application dated December 19, 1957, and attachments thereto; and the licensee's letters dated January 17, 1958, February 4, 1958, February 27, 1958, April 1, 1958, and June 20, 1958; except as provided otherwise in

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Substances", "Emergency Procedures", "General Instructions for Vehicular Accidents", "Personal Decontamination Procedures", and "Special Instructions for Final Packaging Operations", as described in the licensee's application and letters specified in Condition 3 of this license, shall be supplied to each employee of the licensee involved in the receipt, packaging, and disposal of byproduct material.

5. Byproduct material received from customers shall be prepackaged in containers which shall not be opened at any time by the New England Tank Cleaning Company, and which shall meet the requirements of Condition 6 of this license. The licensee shall instruct each customer to package the waste material in such a manner as to assure the absence of any significant voids.
6. Intrastate transportation of AEC-licensed material to the location designated in Condition 7 shall be in accordance with the following requirements except as specifically approved by the Atomic Energy Commission:

A. Outside Shipping Containers

- (1) The containers shall meet any one of the following specifications described in Appendix A attached hereto:
  - a. 15A, 15B, 12B, 6A, 6B, 6C, 17C, 17H, 19A, or 19B for the containment of radioactivity in amounts not in excess of 2.0 curies; or
  - b. Specification 55 for containment of solid cobalt 60, cesium 137, iridium 192, or gold 198 in amounts not in excess of 300 curies.

alpha and 0.1 mrep/hr beta-gamma radiation.

- (3) The smallest dimension of the container shall not be less than 4 inches.
- (4) The radiation level at any accessible surface of the container shall not exceed 200 mrem/hr.
- (5) At one meter from any point on the radioactive source the radiation level shall not exceed 10 mrem/hr.
- (6) Containers which contain radioactive material emitting only alpha and/or beta radiation shall contain sufficient shielding to prevent the escape of primary corpuscular radiation to the exterior surface and to reduce the secondary radiation at the surface of the container to at least 10 mrem/24 hours at any time during transportation.

B. Inside Containers

- (1) Solid and gaseous radioactive materials shall be packed in suitable inside containers designed to prevent rupture and leakage under conditions incident to transportation.
- (2) Liquid radioactive materials must be packed in sealed glass, earthenware, or other suitable containers. The container must be surrounded on all sides by an absorbent material sufficient to absorb the entire liquid contents and be of such nature that its efficiency will not be impaired by chemical reactions with the contents. Where shielding is



in Appendix A the absorbent material is not required.

- (3) Materials containing radioisotopes of plutonium, americium, polonium, or curium, or the isotope strontium 90, in quantities in excess of 100 microcuries, must be packed in containers which meet Specification 2R in Appendix A.

C. Shielding

Inside containers must be completely surrounded with sufficient shielding to meet the requirements of Subparagraphs A (4), A (5), and A (6) of this condition. The shield must be so designed that it will not open or break under normal conditions incident to transportation.

D. Labeling

Each outside container label required under Section 20.203 (f)(1) of 10 CFR 20 shall bear the following information:

- (1) Total activity in millicuries, or in the case of source and special nuclear material, the total weight;
- (2) principal radioisotope;
- (3) radiation level at the surface of the container and at one meter from the source; and
- (4) the name and address of the licensee.

E. Each vehicle in which licensed material is transported shall be marked or placarded on each side and the rear with lettering at least 3 inches high as follows: DANGEROUS - RADIOACTIVE MATERIAL.

licensed material, immediate steps shall be taken to prevent radiation exposure of persons and to control contamination.

G. Exemptions

Specific approval must be obtained from the Atomic Energy Commission for modification of, or exemption from, the requirements of this license condition. Requests for such approval should be directed to the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, and should contain sufficient information to support such a request.

7. The licensee shall store and package byproduct material for sea disposal at Great Brewster Island, Boston, Massachusetts.
8. The licensee shall dispose of byproduct material in an area bounded by the parallels of Latitude  $41^{\circ} 38'$  N. and  $41^{\circ} 28'$  N. and by the meridians of Longitude  $65^{\circ} 28'$  W. and  $65^{\circ} 45'$  W. at a minimum depth of 1000 fathoms.
9. The licensee shall notify the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy Commission, at least 20 days prior to each disposal, by letter deposited in the United States mail properly stamped and addressed, of the proposed date for disposal, the total number of containers, the total activity in millicuries, and the most hazardous radioisotope contained in each container.
10. Byproduct material shall be disposed of at sea within 21 months

takes possession of such material.

This license shall be effective on the date issued and shall expire on  
September 30, 1960.

FOR THE ATOMIC ENERGY COMMISSION

J. R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Date of Issuance:

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF APPLICATION FOR AN AMENDMENT TO BYPRODUCT MATERIAL LICENSE

Please take notice that an application for an Amendment to Byproduct Material License No. 20-3541-1 has been filed by New England Tank Cleaning Company, 135 First Street, Cambridge, Massachusetts.

The application requests amendment of the applicant's license to authorize it to store, package, and dispose of 50 pounds of source material and 5 grams of special nuclear material. The materials will be prepackaged by customers of the applicant and will be encased in concrete by the applicant for disposal. Under its current license, the New England Tank Cleaning Company is authorized to store, package, and dispose of 1,000 curies of byproduct material.

A copy of the application is available for public inspection in the Atomic Energy Commission's Public Document Room at 1717 H Street, N. W., Washington, D. C.

FOR THE ATOMIC ENERGY COMMISSION

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Dated at Germantown, Maryland  
this 18<sup>th</sup> day of December, 1958.

ITEM # 93

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BACK-UP NOTES FOR AEC-592

PARIS 20, 30, 40, 70 INSPECTION

Inspector: Fred N. Brandkamp

NEW ENGLAND TANK CLEANING CO.  
135 First Street  
Cambridge, Massachusetts

License No.: 20-3541-1

Date of Inspection: October 20, 1964 (Announced Reinspection)

Persons Accompanying Inspector:

Robert Devlin, State of Massachusetts

Persons Contacted:

Mr. E. Denault Jr., President

Inspection History:

Initial Inspection 12/16/58

Reinspections - 7/21/60, 8/1/61, 9/12/62, 6/18/63

Noncompliance Noted on Last Reinspection:

1. License Condition 10; material held over 21 months.

Denault said that no material has been held for time periods approaching 21 months since last inspection. Present plans call for direct trans-shipment with no more holdovers at NETCCO facilities.

2. 20.203(b); radiation areas not posted. Denault said he now posts such areas personally.
3. 20.206(c); AEC-3 not posted. Now posted in NETCCO Cambridge office.
4. 20.401(b); inadequate survey records. Records of surveys are now maintained in a log book and on invoices associated with each shipment.

Noncompliance Noted in Present Inspection:

Item A - Para.   8  , B-Para.   9  , C-Para.   9  , ~~D-Para.   9~~

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A/94 (1)

DETAILS

Organization and Administration

1. There has been no significant change in the organization and administration of the New England Tank Cleaning Co. since the last inspection. Disposal of radioactive wastes forms a very small part of the NETCCO operations. These activities, except for clerical duties performed by his office staff, are handled by E. Denault, Jr. Denault reported that Mr. Joel Bulkley is no longer associated with NETCCO. The services of Dr. Norman Rosmussen are retained on a consultant basis. <sup>Insert\*</sup> Copies of the license, Parts 20, 30, 40, 70, were on hand at the time of the inspection. AEC-3 was posted on a wall in the office.

Receipt and Transfer Records

2. Forms (NETCCO 200) are maintained which record the name of the person from whom a given shipment is received, the date, container number, the principal radioisotope(s), the total activity, an indication of liquid or solid state of contents, and the date and means of final disposition of the container by NETCCO.
3. A log book is also maintained which forms a chronological record of the receipt and subsequent shipment of material to burial sites at either West Valley, New York or Moorehead, Kentucky. A total of 8 shipments were made in 1963; 8 such shipments had been made during 1964 up to the time of the inspection.
4. A file of invoices is maintained, indicating the container volume, (5, 30, or 55 gal drums), the kind and amount of activity contained, the name, and address of the shipper, the date of the shipment, and the results of dose rate surveys at contact with the containers and at 1 meter therefrom. Denault said he accepts customer dose rate surveys and performs similar surveys himself.

\* Denault said that Rosmussen visits the facility semi-annually performs a survey if there is material on hand. The inspector pointed out that material is rarely in storage and asked what Rosmussen did on his visits in addition to a possible survey. Denault replied that for the most part this was an excuse to have dinner together, although the waste disposal business, and associated problems, was usually discussed in general terms.

calendar 1963 and a total of 8 shipments up to the date of the inspection in 1964. A typical shipment was made on 9/15/64 which consisted of 7 drums, each of 55 gal capacity, received from Jackson Laboratories, Bar Harbor, on 9/15/64 and shipped to Nuclear Fuel Service Co, West Valley, on 10/12/64.

Records on hand were reviewed and it was noted that there have been no sea disposals. Denault stated that no sea disposals are contemplated in a shipment of 103 boxes, containing a total of 36,626 lbs

of depleted uranium was recorded as having been received from Watertown Arsenal and shipped to Nuclear Engineers, Maxie Flats, Ky. on 7/21/64.

The question of exceeding the 50 lb limit for possession of source material was discussed with Mr. Denault by the inspector. Denault replied that this was purely a "paper" transaction in which his part required only that he take title to the material and that he was therefore licensed for this operation under 10 CFR 40.21. Further questioning established the fact that the material was packaged and loaded onto a common carrier by Watertown Arsenal personnel on Watertown Arsenal property, from whence it was shipped directly to the burial site at Maxie Flats, Kentucky.

Shipper was recorded as "Roadway, Inc." who, according to Denault, is frequently used for such purposes. He also stated that the trucks and contents were posted in accordance with ICC regulations. A review of the records on hand indicated that possession limits had not been exceeded at any time since the previous inspection. There was no material on hand at the time of the inspection.

#### Instrumentation and Calibration

6. Radiation detection instruments have not changed since the last inspection, viz a Juno Model SRV-3 and a Universal Atomics GM survey meter. He said they are calibrated against generally licensed check sources. No calibration records are maintained. *The inspector noted that the Universal Atomics & M. survey meter was operating properly at the time of the inspection.*

#### Facilities

7. In addition to offices at the First Street location in Cambridge, NETCCO owns a storage area as described in Paragraphs 12 and 13 of the details of the previous inspection report dated 5/2/63. Denault stated, and records on hand confirmed, that this area was last used for storage of waste material on 10/12/64. He added that he does not intend to hold or store waste material at all in the future but will, instead, arrange shipment directly from the customer location to the burial site.

Surveys

8. Direct reading monitoring of the boundaries of the enclosed waste container storage area is performed by Denault. A review of the records on hand indicated that the dose rates noted had not exceeded background levels, using the Universal Atomics GM survey meter. A review of the records on hand revealed that a shipment of 7 drums of waste material was in storage from 9/15/64 to 10/2/64 and that no surveys by NETCO had been recorded. Denault conceded that he had neglected to perform any surveys but had depended upon survey information (dose rates less than 200 mr/hr at contact and less than 10 mr/hr at 1 M) provided by the shipper. The inspector pointed out that such wastes had produced excessive dose rates in the unrestricted areas outside the fence in the past and that a survey was necessary in order to assure compliance with 10 CFR 20.105. Denault agreed and said he would be more diligent in the future.

License Conditions

9. 1. A review of the records on hand substantiated Denault's claim that possession limits had not been exceeded at any time since the previous inspection.
2. License Condition 2 requires the physical presence of Norman C. Rasmussen or Joel Bulkley during all activities involving receipt, handling, and disposal of wastes containing byproduct, source or special nuclear material. Denault said that Bulkley has not been associated with NETCO for over a year and that he had not realized that License Condition 2 therefore required the presence of Rasmussen upon receipt of material. Questioning by the inspector revealed that there has been no attempt to notify Rasmussen or arrange for him to be present when material is received or handled. He added that he intends to apply for a license amendment which will substitute his own name for that of Bulkley or Rasmussen.



3. The applications and correspondence referenced in License Condition 3 were reviewed with Denault. Denault pointed out that there had been no sea disposals or repackaging activities and that storage at East Boston and trans-shipment by common carriers constituted the scope of his activities. Denault claimed that he complied with all referenced statements pertinent to these activities.
4. Denault said he has no employees involved in the receipt, handling, etc of waste materials and displayed copies of each of the referenced documents to the inspector.
5. Denault said packages are not opened but shipped for burial as received.
6. Denault said that material is received in 5 gal., 30 gal. or 55 gal. steel drums which meet the specifications required by Appendix A(1).

License Condition 6A(2) requires that there be no radioactive contamination on any exterior surfaces of containers in excess of 500 dpm/100 cm<sup>2</sup> alpha and 0.1 mrep/hr beta-gamma radiation. Discussion with Denault revealed that <sup>records of these surveys were not available because</sup> surveys to determine removable contamination levels have not been performed by NETCCO nor by ~~the~~ those who send shipments of wastes to NETCCO for disposal. Denault said that he had received some correspondence from the Washington Office of AEC which, according to his statements during the inspection, either relieved him of this responsibility or in some way modified the requirement. He was unable to locate this letter during the inspection and advised the inspector, by mail, that search subsequent to the inspection had not produced the missing letter. The inspector pointed out that the only method by which license conditions are modified is by amendments to such licenses and that neither the correspondence file nor the license itself reflected any such amendment or discussion of a proposed amendment. Denault stated that in the future he will have wipe surveys performed by Controls for Radiation, Inc.

Compliance with License Condition 6A(3) is apparent by virtue of the containers used as described above.

Compliance with License Condition 6A(4) and (5) is based upon survey information provided by the shipper of wastes to NETCCO.

7. Denault said that material had been stored only at the authorized location.
8. 9. Disposal has been confined to land burials.
10. Discussed in paragraphs 2 through 5
11. As per 8, 9 above
12. Compliance established by review of records on hand.

Personnel Monitoring

10. Film badges are provided by Tracerlab and are used by Denault and the truck drivers involved in transportation of waste material in behalf of NETCCO. Records are maintained on Form AEC-5. A review of these records indicated no dosages above minimum detectable levels.

SLR

18 NOV 1964

Ext. 285

CO:IFMB

NOV 19 11 10 27  
U.S. MAIL  
FBI

RECEIVED

New England Tank Cleaning Co.  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. E. Densault Jr., President

Gentlemen:

This letter relates to the discussion Mr. Brandkamp of this office held with Mr. Densault following the inspection conducted on October 20, 1964 of the activities authorized under AEC Byproduct Material License No. 20-3541-1.

As noted during the discussion, it appears that certain of your activities were not conducted in full compliance with AEC requirements. The items and references to the pertinent requirements are listed in Item 5 of the attached Form AEC-592.

The purpose of this letter is to give you an opportunity to advise us in writing of your position concerning these items, of any corrective action you have taken or plan to take with respect to them, and the date corrective action was or will be completed. Your reply should be sent to us within 20 days of the date of this letter to ensure that it will receive proper attention in our further evaluation of this matter.

Should you have any questions concerning this matter, you may communicate directly with this office.

Very truly yours,

Robert W. Kirkman, Director  
Region I, Division of Compliance

Enclosure:  
Form AEC-592  
SLR:HQ, w/inspection notes

ITEM # 95

A/95

NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

*file  
supp.*

October 9, 1964

United States Atomic Energy Commission  
Washington, D.C. #20545

Attention of Mr. Bassin

Dear Mr. Bassin:

In reference to our conversation of today, we have bid on the job at Watertown Arsenal, Request #C5 3178 requiring shipment of 45,000 pounds of Uranium Source Material. They have held up award of this contract awaiting waiver for this shipment or a determination by your division that possession does not fall within the bounds of this contract.

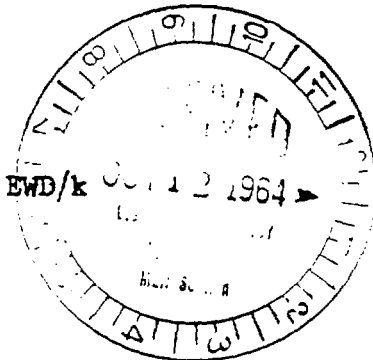
I receive this material on a paper transaction only, and at no time do I receive possession or ownership. The shipment is loaded by the U.S. Government with U.S. Government employees on common carriers, for which I contract directly. This materiel is forwarded directly by this common carrier to the burial site operated by Nuclear Fuel Services, West Valley, New York or Nuclear Engineering of Morehead, Kentucky, both of whom have a license with your division.

We handle all the paper work and pay the bill to the common carrier and to the Nuclear Fuel Services or Nuclear Engineering Company.

Hoping that you can facilitate my award of this contract with the Watertown Arsenal as they understood after talking with you earlier a different interpretation of paragraph No. 1 of amendment No. 6 of my license # 20-3541-1 -C63 than that which we discussed on the phone today.

Thanking you in advance,

Very truly yours,



NEW ENGLAND TANK CLEANING COMPANY

*Eliot W. Denault, Jr.*  
Eliot W. Denault, Jr. President

|  |  |
|--|--|
| <p>1. LICENSEE<br/> <b>NEW ENGLAND TANK CLEANING COMPANY</b><br/>                 135 First Street<br/>                 Cambridge, Massachusetts</p> | <p>2. REGIONAL OFFICE<br/>                 U. S. Atomic Energy Commission<br/>                 Region I, Division of Compliance<br/>                 376 Hudson Street<br/>                 New York, New York 10014</p> |
|--|--|

|  |  |
|--|--|
| <p>3. LICENSE NUMBER<br/>                 20-35418</p> | <p>4. <del>October 20, 1964</del> (Reinspection)</p> |
|--|--|

5. The following activities under your license (identified in Item No. 3 above) appear to be in noncompliance with AEC regulations or license requirements, as indicated.

- (a) Surveys to ensure excessive radiation levels did not exist in unrestricted areas were not always performed for waste containers in temporary storage, contrary to the requirements of 10 CFR 20.201(b), "Surveys."
- (b) Shipments of packages of wastes containing licensed materials were received and handled on a routine basis in the absence of Messrs. Bulkley or Rasmussen, contrary to the requirements of License Condition 2.
- (c) Records were not maintained of the levels of removable radioactive contamination present on the surfaces of the outside shipping containers of wastes received from customers, contrary to the requirements of License Condition 10A(5).

Supplementary page None attached. Fred N. Brandkamp 11/13/64  
AEC Compliance Inspector Date



WASHINGTON 25, D. C.

BYPRODUCT, SOURCE AND SPECIAL NUCLEAR MATERIAL LICENSE

NEW ENGLAND TANK CLEANING COMPANY

DOCKET NO. 27-8

License No. 20-3541-1  
(I60)  
Amendment No. 3

In addition to activities previously authorized by License No. 20-3541-1, and pursuant to the Atomic Energy Act of 1954, as amended, and Title 10, Code of Federal Regulations, Chapter 1, Part 40, "Control of Source Material", and Title 10, Code of Federal Regulations, Chapter 1, Part 70, "Special Nuclear Material", License No. 20-3541-1 is amended to authorize the New England Tank Cleaning Company to receive, possess, package and dispose of source and special nuclear material in the Atlantic Ocean and to:

A. Add new Conditions 11 and 12 to read as follows:

11. The licensee shall not receive possession of more than 50 pounds of source material and 5 grams of special nuclear material during the term of this license.

12. Packaged radioactive waste containing special nuclear material shall be transported aboard vessels of American registry.

B. Amend Conditions 2, 3, 4, 5, 7, 8, and 10 to insert after the words byproduct material, source and special nuclear material.

C. Amend Condition 9 to read as follows:

9. The licensee shall notify the Chief, Isotopes Branch, Division of Licensing and Regulation, Atomic Energy

ITEM # 96

2/19/50

posal, by letter deposited in the United States mail properly stamped and addressed, of the proposed date for disposal, the total number of containers, the total activity of byproduct material in millicuries, the amount of source material in pounds, the amount of special nuclear material in grams, and the most hazardous radioisotope contained in each container.

This amendment is effective as of the date of issuance.

FOR THE ATOMIC ENERGY COMMISSION

James R. Mason  
Chief, Isotopes Branch  
Division of Licensing and Regulation

Date of Issuance:

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-8

NEW ENGLAND TANK CLEANING COMPANY

NOTICE OF ISSUANCE OF BYPRODUCT MATERIAL LICENSE  
TO PROVIDE RADIOACTIVE WASTE DISPOSAL SERVICE

Please take notice that no requests for formal hearing having been filed following filing of the notice of proposed action with the Federal Register Division, the Atomic Energy Commission has this date issued the following Byproduct Material License No. 20-3541-1 authorizing New England Tank Cleaning Company to receive, possess, package, and dispose of byproduct material in the Atlantic Ocean in accordance with the terms and conditions of said license. The notice of proposed action was published in the FEDERAL REGISTER on August 29, 1958. For further details see the application for license at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C.

FOR THE ATOMIC ENERGY COMMISSION

H. L. Price  
Director  
Division of Licensing and Regulation

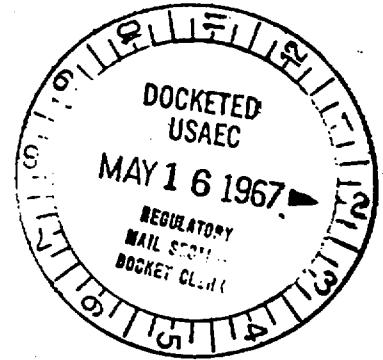
Dated at Germantown, Maryland,  
this \_\_\_\_ day of September 1958.



RECEIVED

1967 MAY 12 PM 3 40

U.S. ATOMIC ENERGY COMM.  
REGULATORY  
MAIL & RECORDS SECTION



TWX NR 918

USAEC HQS GTWN  
VU WSH TLXA072 ILX073 KVQLBA129  
B CAA317 PD CAMBRIDGE MASS 12 EPIP EDT  
NATHAN BASSIN, ISOTOPE BRANCH  
DIV OF MATERIALS LICENSING US ATOMIC ENERGY COMMISSION WASHDC  
RE NEW ENGLAND TANK CLEANING COMPANY APPLICATION FOR RENEVAL  
OF LICENSE NUMBER 20-3541-1(C65) TO RECEIVE AN STORE PACKAGED  
RADIOACTIVE WASTE MATERIALS. PLEASE DELETE REQUEST FOR CONTINUED  
AUTHORITY TO DISPOSE OF WASTE AT SEA. DISPOSAL OF WASTE WILL  
BE BY TRANSFER TO PERSONS AUTHORIZED TO ACCEPT SUCH WASTE  
NEW ENGLAND TANK CLEANING CO ELIOT V DENAULT JR PRES  
135 KIRST ST CAMBRIDGE MASS

(20).

337PM EDT

S 1 TNX END//RB#

~~SECRET~~

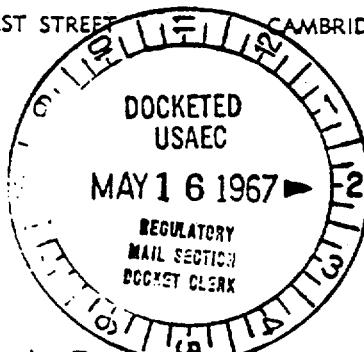
ITEM # 97

4/107/17

NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET CAMBRIDGE 41, MASSACHUSETTS

4-8



May 12, 1967

United States Atomic Energy Commission  
Washington, D.C.

Attention of Mr. Nathan Bassin, Isotopes Branch-Division of Materials Licen:

Dear Mr. Bassin:

Reference: New England Tank Cleaning Company application for renewal of license to receive and store packaged radioactive waste materials. License #20-3541-1 (C63).

Please delete request for continued authority to dispose of waste at sea.

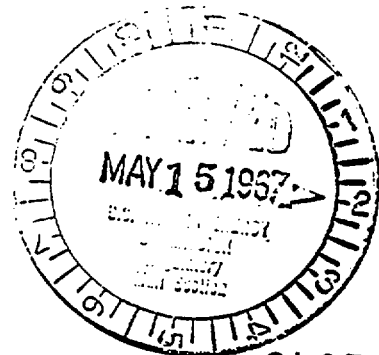
Disposal of waste will be by transfer to persons authorized to accept such waste.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

Eliot W. Denault, Jr., President

EWDJ/k



94-271

DUPLICATED  
FOR DIV. OF MATERIALS LICENSING

*try file*  
*file*  
*Supp file*  
*27-8*

August 22, 1966

United States Atomic Energy Commission  
Washington, D.C. 20545  
(Division of Materials Licensing\*Regulatory Mail & Records Section)

Reference Control number 77221

Gentlemen:

We applied for a renewal of our A.E.C. License 20-3541-1 for storage and disposal of ~~atomic~~ radioactive waste on May 5, 1966. To date we have received only an acknowledgement of communication form which referred to our application of May 5, 1966.

Will you please inform us as to any action taken on this application?

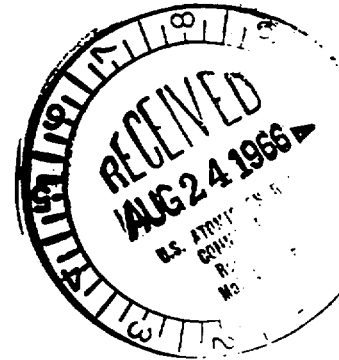
Thanking you,

NEW ENGLAND TANK CLEANING COMPANY

*Eliot W. Denault, Jr.*

Eliot W. Denault, Jr. President

EWD/k



TO : Files

DATE: **MAY 9 1966**

FROM : Nathan Bassin, Isotopes Branch  
Division of Materials Licensing



SUBJECT: TELEPHONE CONVERSATION WITH MR. ELLIOTT DENAULT, NEW ENGLAND TANK  
CLEANING COMPANY, ON MAY 4, 1966

I called Mr. Denault in regard to License No. 20-3541-1, which had expired on July 31, 1965. Mr. Denault indicated that he desired to maintain the license. I suggested to him that he should send a letter requesting renewal of the license and specify any changes which may have been made in the program. Mr. Denault stated that they did not possess any waste materials and had not possessed any since the license had expired. He said that he would indicate this in the letter also.

cc: Jack Roeder, CO



*Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan*

Files

MAY 9 1966

Bethan Dumalt, Isotopes Branch  
Division of Materials Licensing

TELEPHONE CONVERSATION WITH MR. WILLOTT DUMALT, NEW ENGLAND TANK  
CLEANING COMPANY, ON MAY 4, 1966

I called Mr. Dumalt in regard to License No. 20-3541-1, which had expired on July 31, 1965. Mr. Dumalt indicated that he desired to maintain the license. I suggested to him that he should send a letter requesting renewal of the license and specify any changes which may have been made in the program. Mr. Dumalt stated that they did not possess any waste materials and had not possessed any since the license had expired. He said that he would indicate this in the letter also.

cc: Jack Becker, CO

bcc: Standard Branch Distribution

|           |            |  |  |  |  |
|-----------|------------|--|--|--|--|
| OFFICE ▶  | DMT:JB     |  |  |  |  |
| SURNAME ▶ | NBas:1N:bk |  |  |  |  |
| DATE ▶    | 5/5/66     |  |  |  |  |

FORM ABC-818 (Rev. 9-53)

U. S. GOVERNMENT PRINTING OFFICE 16-62761-8

May 5, 1966

United States Atomic Energy Commission  
Division of Materials & Licensing  
Isotopes Branch  
Washington, D.C.

ATTENTION OF MR. NATHAN BASSIN

Dear Mr. Bassin:

Referring to our conversation yesterday, we wish to renew our Atomic Energy Commission License # 20-374-1 for storage and disposal of radioactive waste.

During the interim period we have not possessed or packaged radioactive items. There have been no changes in our previous representations.

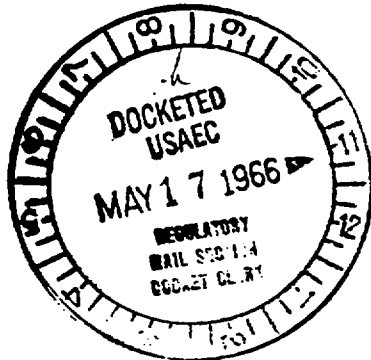
Trusting that this will set in motion our application for renewal of our license.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

Eliot W. Denault, Jr. President

EWJ/k



DML:IB:NB  
Docket No. 27-8

MAR 4 1965

New England Tank Cleaning Corporation  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. Eliot W. Demault, Jr., President

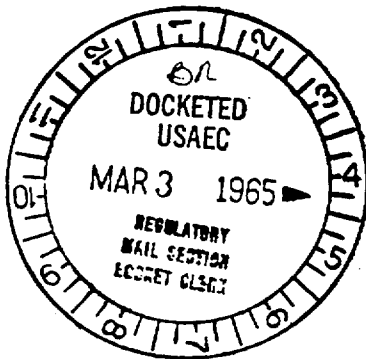
Gentlemen:

This refers to your letter dated January 11, 1965, regarding the training and experience of Mr. Eliot W. Demault.

In our letter of January 7, 1965, we stated that we needed a detailed summary of the training which Mr. Demault received under Dr. Rasmussen and the content of the courses conducted by Dr. Rasmussen. The information in the letter does not provide the requested information. In order to continue review of the request to add Mr. Demault to the license as a user, we need to have the above information.

Sincerely yours,

Nathan Bessin  
Isotope Branch  
Division of Materials  
Licensing



|           |            |  |  |  |  |  |
|-----------|------------|--|--|--|--|--|
| OFFICE ▶  | DML:IB     |  |  |  |  |  |
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| DATE ▶    | 3/2/65     |  |  |  |  |  |

January 11, 1965

U.S. Atomic Energy Commission  
Washington, D.C. 20545

Attention of Mr. Nathan Bassin, Isotopes Branch  
Division of Materials Licensing

Ref: DML:IB:NB  
Docket No. 27-8

Dear Mr. Bassin:

In reply to your letter of January 7, 1965, during the year 1957 I received a full course under Mr. Joel Bulkley and Dr. Norman Rasmussen at Massachusetts Institute of Technology, in the technology, handling, safety, decontamination, and use of survey equipment. Since that time, and under the supervision of Dr. Rasmussen and in connection with A.E.C. License 20-3541-1 I have been directly responsible for the receipt, handling and accountability of all radioactive waste received.

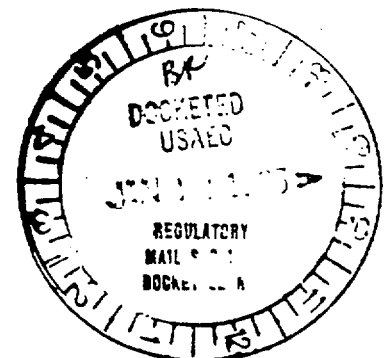
Hoping that the above answers your letter of January 7, 1965.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

Eliot W. Denault, Jr. President

EWDJ/k





DM:IB:EB  
Packet No. 27-1

JAN 7 1965

New England Tank Cleaning Corporation  
135 First Street  
Cambridge, Massachusetts

Attention: Mr. Eliot W. Bennett, Jr., President

Customer:

This refers to your letter dated November 16, 1964, which requests  
amendment to License No. 20-1344-1.

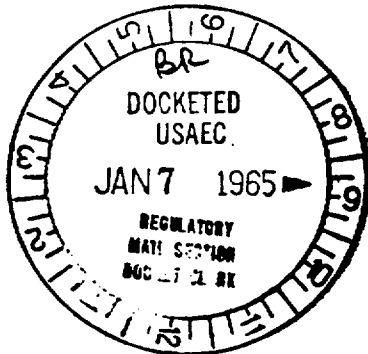
In order to consider the addition to the license of Mr. Eliot W.  
Bennett, Jr. as a user, we need to have a detailed summary of the  
training which Mr. Bennett has received under the supervision of  
Mr. Spence C. Hanson and the content of the special courses  
conducted by Mr. Hanson which Mr. Bennett has attended.

Upon receipt of the above information we shall continue review  
of the application.

Sincerely yours,

Original Signed by  
Nathan Basch

Nathan Basch  
Deputy Director  
Division of Materials Licensing



|           |              |  |  |  |  |
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| OFFICE ▶  | DM:IB        |  |  |  |  |
| SURNAME ▶ | NBasch in br |  |  |  |  |
| DATE ▶    | 1/5/65       |  |  |  |  |

# NEW ENGLAND TANK CLEANING COMPANY

135 FIRST STREET

CAMBRIDGE 41, MASSACHUSETTS

January 11, 1965

U.S. Atomic Energy Commission  
Washington, D.C. 20545

Attention of Mr. Nathan Bassin, Isotopes Branch  
Division of Materials Licensing

Ref: DML:IB:NB  
Docket No. 27-8

Dear Mr. Bassin:

In reply to your letter of January 7, 1965, during the year 1957 I received a full course under Mr. Joel Bulkley and Dr. Norman Rasmussen at Massachusetts Institute of Technology, in the technology, handling, safety, decontamination, and use of survey equipment. Since that time, and under the supervision of Dr. Rasmussen and in connection with A.E.C. License 20-3541-1 I have been directly responsible for the receipt, handling and accountability of all radioactive waste received.

Hoping that the above answers your letter of January 7, 1965.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

Eliot W. Denault, Jr. President

EWDJ/k

November 16, 1964 ✓

United States Atomic Energy Commission  
Division of Compliance  
Region 1  
376 Hudson Street  
New York 14, New York

Attention of Mr. Robert W. Kirkman, Director, Region 1, Div. of Compliance

Ref. CO:I:FNB

Dear Sir:

In reply to your letter of 13 November, 1964, listing three deficiencies, we wish to notify you of the following methods by which compliance will be made in the future.

- A. In the event temporary storage is maintained, surveys will be as per the requirements of 10 CFR 20.201(b).
- B. An amendment to our license will be requested removing the name of Mr. Joel Bulkley and replacing with the name of Mr. Eliot W. Denault, Jr.
- C. In the event that shipping containers are received for storage, we shall abide by the conditions of License Condition 10A(5).

Please find enclosed request for amendment of license.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

Eliot W. Denault, Jr. President

EWDJ/k  
enc.1

November 16, 1964

United States Atomic Energy Commission  
Washington, D.C.

Attention of Mr. Eben R. Price, Acting Director  
Division of Licensing & Regulations.

Dear Sir:

We would like to request an amendment to our License No. 20-354L-1 (C63).

In Amendment No. 6, Item No. 2, we would like to remove the name of Joel Bulkley and insert the name of Eliot W. Denault, Jr. as a qualified supervisor for the receipt, handling, repackaging, and disposal of packages containing waste by-product, source, and special nuclear materials to be carried out in the physical presence of Dr. Norman C. Rasmussen.

Eliot W. Denault, Jr. has acted under the supervision of Dr. Norman C. Rasmussen, since the beginning of our license in 1958, and has been instructed in special courses under Dr. Rasmussen.

We shall appreciate your consideration of this request.

Very truly yours,

NEW ENGLAND TANK CLEANING COMPANY

  
Eliot W. Denault, Jr. President

ENDJ/k

CO:I:FMB

NOV 30 1964

New England Tank Cleaning Company  
135 First Street  
Cambridge 41, Massachusetts

Attention: Mr. E. Densuit, Jr., President

Gentlemen:

Thank you for your letter dated November 16, 1964 informing us of the steps you have taken to correct those items of apparent noncompliance which we brought to your attention in our letter dated November 13, 1964 and the Form AEC-592 attached thereto.

While your letter states that you have filed an application for an appropriate amendment to achieve corrective action for Item (b) on the Form AEC-592, it should be understood that no activity is in accord with AEC regulatory requirements unless and until it is specifically authorized in an AEC license. Steps should be taken to assure that AEC-licensed materials are hereafter possessed only as authorized by your license.

Very truly yours,

Robert W. Kirkman, Director  
Region I, Division of Compliance

bcc: CO:HQ  
/SLR  
CO:I