

SECRET NO. 27-7

~~JUN 27 1960~~

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L&R:IB:MBC

Dr. Alexander Grendon
Coordinator of Atomic Energy
Development and Radiation Protection
State of California
Governor's Office
Sacramento 14, California

Dear Dr. Grendon:

Transmitted herewith are copies of Amendment No. 1 to License No. 4-180-6, held by Isotopes Specialties Company, Division of Nuclear Corporation of America, Inc., 170 West Providencia, Burbank, California.

Also transmitted with are copies of the Notices of Proposed Amendments of License No. 4-180-6, held by Isotopes Specialties Company, Division of Nuclear Corporation of America, Inc., 170 West Providencia, Burbank, California, and License No. 4-5668-1, held by Ocean Transport Company, No. 1 Drumm Street, S. Francisco 11, California, and copies of the Memoranda by the Division of Licensing and Regulation summarizing the considerations evaluated in the issuance of these notices of proposed licensing action. You will be notified when further action is taken on these matters.

Four copies of each of these documents have been enclosed in order that you may make distribution to appropriate state officials.

Sincerely yours,

bcc: Congressional Communications
G. W. Morgan, OHS, w/encl (Signed) H. L. Price

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

Enclosures:
As stated above

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OFFICE ▶	L&R:IB	L&R:IB	L&R:RSB	OGC	L&R	L&R
SURNAME ▶	Cool:dg	Mason	Rogers		RLKirk	RLKirk
DATE ▶	6/24/60	6/24/60	6/ /60	6/ /60	6/ /60	6/24/60

U. S. ATOMIC ENERGY COMMISSION
SAN FRANCISCO OPERATIONS OFFICE
2111 BANCROFT WAY
BERKELEY 4, CALIFORNIA

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FOR IMMEDIATE RELEASE

TWO CALIFORNIA WASTE DISPOSAL FIRMS
SEEK AEC APPROVAL TO AMEND LICENSES

The Atomic Energy Commission has given notice of intent to amend the licenses of two California waste disposal firms to authorize each to possess additional quantities of waste material.

The Commission has reviewed the applications of Ocean Transport Company, South Fourth Street and Wright Avenue, Inner Harbor, Richmond, California; and Isotopes Specialties Company, Division of Nuclear Corporation of America, Inc., 170 West Providencia, Burbank, California, and proposes to grant license amendments to authorize the increased possession of waste material by each firm unless requests for hearings are received. A request for a hearing must be filed with the Commission within 15 days following publication of the intent in the Federal Register.

Ocean Transport's license would be amended to permit the firm to receive and store 1,000 curies of byproduct material, 4,000 pounds of source material and 300 grams of special nuclear material. The company also would be authorized to package waste source, byproduct and special nuclear materials in precast concrete blocks, 55 gallon steel drums, and solidified liquid waste disposal units for disposal at sea. Ocean Transport is now licensed to receive and store 750 curies of byproduct material, 2,000 pounds of source material and four grams of special nuclear material. The firm had applied for permission to handle 2,500 curies of byproduct material, but this was reduced to 1,000 curies by the Commission.

Notice of the proposed issuance of the amended Ocean Transport license was published in the Federal Register June 27, 1960.

Isotopes Specialties Company's license would be amended to permit the receipt, storage and disposal of 20 grams of special nuclear materials. The firm is now licensed to handle 100 curies of byproduct material and 2,000 pounds of source material. The amendment also would permit the disposal of the material in master drum containers and concrete forms.

Notice of the Commission's intent to amend the Isotopes Specialties Company's license was published in the Federal Register of July 6, 1960.

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The Commission, in proposing to approve the amendments, noted the possession of the additional quantity of material will not be inimical to the health and safety of the public. The sea disposal containers proposed meet the recommendations of the National committee on Radiation Protection contained in the National Bureau of Standards Handbook 58, "Radioactive Waste Disposal in the Ocean".

(Attached are copies of the proposed license amendments for Ocean Transport Company and Isotopes Specialties Company.)

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(end)

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-20

OCEAN TRANSPORT COMPANY

NOTICE OF PROPOSED AMENDMENT OF BYPRODUCT, SOURCE
AND SPECIAL NUCLEAR MATERIAL LICENSE

Take notice that Ocean Transport Company, holder of License No. 4-5668-1, which authorizes the receipt and storage of prepackaged waste source, byproduct and special nuclear materials at South Fourth Street and Wright Avenue, Inner Harbor, Richmond, California, for disposal in the Pacific Ocean, has applied for a license amendment which would:

1. Authorize an increase in the possession limit from 750 curies of byproduct material, 2,000 pounds of source material and four grams of special nuclear material to 2,500 curies of byproduct material, 4,000 pounds of source material and 300 grams of special nuclear material; and
2. Authorize the packaging of waste source, byproduct, and special nuclear materials by the licensee in precast concrete blocks, 55 gallon steel drums, and solidified liquid waste disposal units for disposal at sea.

The AEC has reviewed the application for amendment and proposes to grant the amendment subject to appropriate limitations, including limiting the possession limit to 1,000 curies of byproduct material, unless within 15 days after filing of this notice with the Federal Register Division, a petition to intervene and a request for a formal hearing is filed with the Commission in the manner prescribed in Title 10, Code of Federal Regulations, Chapter 1, Part 2, "Rules of Practice."

The application for license amendment and a hazards analysis thereof prepared by the Division of Licensing and Regulation are available for inspection at the Commission's Public Document Room, 1717 H Street N.W., Washington 25, D. C.

FOR THE ATOMIC ENERGY COMMISSION

Dated at Germantown, Maryland
this 23rd day of June, 1960.
(Filed with the U. S. Federal
Register June 27, 1960)

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UNITED STATES ATOMIC ENERGY COMMISSION

MEMORANDUM BY THE

DIVISION OF LICENSING AND REGULATION

IN THE MATTER OF

OCEAN TRANSPORT COMPANY

DOCKET NO. 27-20

In accordance with application dated June 16, 1959 and amendment thereto dated July 25, 1959, the Ocean Transport Company, No. 1 Drum Street, San Francisco 11, California was issued License No. 4-5668-1 authorizing the receipt, possession and disposal of packaged byproduct, source and special nuclear material waste in the Pacific Ocean. By letters dated November 24, 1959, December 14, 1959, December 17, 1959, December 23, 1959, February 3, 1960, March 4, 1960, March 22, 1960, April 21, 1960, May 12, 1960, May 18, 1960 and May 23, 1960 the licensee requested amendment of this license to authorize an increased possession limit and the packaging of waste by the licensee. Based on the consideration of the information submitted in support of these requests the AEC 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 conduct the proposed waste disposal service in a safe manner; and
- (c) the issuance of an amendment to the license of Ocean Transport Company as indicated in the attached "Notice of Proposed Amendment to Byproduct, Source and Special Nuclear Material License" dated June 23, 1960, will not be inimical to the health and safety of the public.

The proposed waste packaging and storage site is located at South Fourth Street and Wright Avenue, Inner Harbor, Richmond, California as described in application for the original license. The waste material will be (1) previously packaged for sea disposal in a manner specifically authorized by the Division of Licensing and Regulation, Atomic Energy Commission; (2) prepackaged by the licensee's customers in containers in compliance with applicable ICC regulations or with Condition 6 of this licensee; (3) sealed packages placed in the precast concrete blocks by the customer, to which the licensee shall add filling and capping concrete prior to removal from the customer's facility; or (4) liquids which will be solidified in the liquid waste disposal units described in the application prior to removal from the customer's facility. The amounts of radioactivity encased in these containers, even if released into the sea, would be greatly diluted and dispersed by the ocean and would not result in concentrations of radioactivity of public health significance.

Radiation safety procedures have been established covering each phase of the proposed operations. Adequate instrumentation will be available for measuring radiation levels and surveying for radioactive contamination. Necessary equipment for transporting the packaged waste from customer's facilities to the storage site and from the storage site to the disposal site is available to the applicant. Transportation of waste material will be conducted in accordance with the regulations of the ICC and the U. S. Coast Guard where such regulations apply. Where these regulations do not apply, transportation will be conducted in accordance with Condition 6 of the proposed license which establishes transportation requirements substantially the same as those of the ICC requirements.

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

The original license authorized the conduct of waste disposal operations under the direct supervision of a person who had at least four years' training and experience at the Lawrence Radiation Laboratory, University of California, in the safe use of radioactive materials, including radiation surveying and monitoring, contamination control, decontamination, packaging of radioactive material for transportation, and the principles and practices of radiation protection. Mr. E. Kuehl has had eight (8) years of experience. Therefore, it appears the applicant will have personnel with adequate training and experience in radiation safety to assure the waste disposal operations will be conducted in such a manner as to protect health and minimize danger to life and property.

UNITED STATES ATOMIC ENERGY COMMISSIONDOCKET NO. 27-7ISOTOPES SPECIALTIES COMPANYDIVISION OF NUCLEAR CORPORATION OF AMERICA, INC.NOTICE OF PROPOSED AMENDMENT OF BYPRODUCT AND SOURCE
MATERIAL LICENSE

Please take notice that Isotopes Specialties Company, Division of Nuclear Corporation of America, Inc., 170 West Providencia, Burbank, California, holder of License No. 4-580-6, which authorizes the receipt of waste byproduct and source material for disposal in the Pacific Ocean, has applied for a license amendment which would:

1. Authorize the receipt, packaging and disposal of 20 grams of special nuclear material in addition to the 100 curies of byproduct material and 2,000 pounds of source material previously authorized.
2. Authorize the packaging of waste byproduct, source and special material for disposal at sea in additional types of containers described as "master drum containers" in application dated November 20, 1959 and concrete forms shown in drawings designated D-0047 and D-0048 submitted in their application dated October 1, 1959.

The AEC has reviewed the application for amendment and proposes to grant the amendment unless within fifteen (15) days after filing of this notice with the Federal Register Division, a petition to intervene and a request for a formal hearing are filed with the Commission in the manner prescribed in Title 10, Code of Federal Regulations, Chapter 1, Part 2, "Rules of Practice."

The application for license amendment and a hazards analysis thereof prepared by the Division of Licensing and Regulation are available for inspection at the Commission's Public Document Room 1717 H Street N. W., Washington 25, D.C.

FOR THE ATOMIC ENERGY COMMISSION

Dated at Germantown, Maryland
this 24th day of June, 1960.
(Filed with the U. S. Federal
Register July 6, 1960)

UNITED STATES ATOMIC ENERGY COMMISSION

MEMORANDUM BY THE

DIVISION OF LICENSING AND REGULATION

IN THE MATTER OF

ISOTOPES SPECIALTIES COMPANY

DIVISION OF NUCLEAR CORPORATION OF AMERICA, INC.

DOCKET NO. 27-7

By applications dated October 1, October 28, November 20 and November 25, 1959; March 24 and May 5, 1960, Isotopes Specialties Company, Division of Nuclear Corporation of America, Inc., requested amendment of their Byproduct and source material License No. 4-580-6 to include 20 grams of special nuclear material and to authorize the use of additional types of containers for the packaging of licensed material for disposal at sea.

Amendment of the license to authorize the receipt, possession, packaging and disposal of 20 grams of special nuclear material does not significantly alter the health and safety factors considered in the issuance of the original license for byproduct and source material.

The sea disposal containers will consist of 55 gallon drums and "master drum containers" as described in letter dated November 20, 1959, and containers shown in drawings D-0047 and D-0048 submitted with letter dated October 1, 1959. Waste material will be slurried into the 55 gallon drums with concrete or into a cylindrical void cast in the drum with concrete. In each case, the drum will be capped with at least 5 inches of concrete to effect closure of the container. The "master drum container" is of a barrel shape, having a diameter of 46 inches at the top and bottom and a diameter of 60 inches at the center. It is 46 inches high and has a 280 gallon capacity. The shell is of 1/8 inch steel and there is an adequate lifting ring attached. This container may be used for the containment of slurried waste and concrete or may be used to provide additional shielding and weight for 55 gallon drums cast into the center of the container with concrete. The containers described in drawings D-0047 and D-0048 provide for the encasement of bulky or irregular objects in solid concrete.

The sea disposal containers proposed meet the recommendations of the National Committee on Radiation Protection contained in the National Bureau of Standards Handbook 58, "Radioactive Waste Disposal in the Ocean."

Based on the above considerations, the AEC has found that the issuance of an amendment to the license of Isotopes Specialties Company, Division of Nuclear Corporation of America, Inc., as indicated in the attached "Notice of Proposed Amendment of Byproduct and Source Material License" dated June 24, 1960, will not be inimical to the health and safety of the public.