

UNITED STATES GOVERNMENT

*Memorandum*

TO : A. R. Luedecke, General Manager  
(THRU) William F. Finan, AGRMS *Finan*

DATE: JUN 24 1960

FROM : H. L. Price, Director  
Division of Licensing and Regulation *HLP*

SUBJECT: NOTICE OF PROPOSED ISSUANCE OF AMENDMENT NO. 2 TO LICENSE NO.  
4-580-6, ISOTOPES SPECIALTIES COMPANY, DIVISION OF NUCLEAR  
CORPORATION OF AMERICA, INC., DOCKET NO. 27-7

SYMBOL: L&amp;R:IB:WSC

I am sending to the Federal Register Division for publication a notice of proposed issuance of an amendment to License No. 4-580-6 held by Isotopes Specialties Company, Division of Nuclear Corporation of America, Inc., Burbank, California, which would authorize the receipt, possession, packaging and disposal of 20 grams of special nuclear material in addition to the byproduct and source material already covered by that license, and authorize the use of additional types of containers for the packaging of radioactive waste material for sea disposal. Unless within 15 days from the date of filing of this notice with the Federal Register Division a formal hearing is requested, or unless sufficient public interest is manifested to warrant the Commission ordering such a hearing on its own motion, I will issue the license at the expiration of that time. Dr. Alexander Grendon, Coordinator of Atomic Energy Development and Radiation Protection and appropriate state officials of California are being notified of this proposed license amendment.

*See [initials]*  
In view of the intense interest in recent matters pertaining to the sea disposal of radioactive waste, it is suggested that this proposed amendment be brought to the attention of the Commissioners. *7*

## Enclosures:

1. Notice of Proposed Amendment
2. Memorandum by Division of L&R

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 27-7

ISOTOPES SPECIALTIES COMPANY

DIVISION 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 nuclear material for disposal at sea in additional types of containers described as "master drum containers" in application dated November 20, 1958 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 subject to appropriate limitations 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."

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The application for license amendment and a ~~has~~ 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

(Signed) H. L. Price

H. L. Price, Director  
Licensing and Regulation

Dated at Germantown, Maryland

this 24<sup>th</sup> day of June, 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 23, 1959; March 24 and May 3, 1960, Isotopes Specialties Company, Division of Nuclear Corporation of America, Inc. requested amendment of their byproduct and source material license No. 4-360-6 to include X 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 copped 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 1/4 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

JUN 24 1964 will not be inimical to the health and safety of the public.