

Office Memorandum • UNITED STATES GOVERNMENT

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

DATE: JAN 11 1961

FROM : *RL Kirk Acting*
H. L. Prite, Director
Division of Licensing and Regulation

SUBJECT: ISSUANCE OF AMENDMENT NO. 4 TO LICENSE NO. 4-580-6 HELD BY ISOTOPES SPECIALTIES CO., DIVISION OF NUCLEAR CORPORATION OF AMERICA, INC., DOCKET NO. 27-7

L&R:IB:WSC

This is to advise you of the issuance of Amendment No. 4 to License No. 4-580-6 held by Isotopes Specialties Company, Division of Nuclear Corporation of America, Inc., 170 West Providencia, Burbank, California.

By telegram dated January 3, 1961, the licensee advised us that Isotopes Specialties Company has been sold to U. S. Nuclear Corporation, 801 North Lake Street, Burbank, California.

This transaction did not include the waste disposal program being carried on by Isotopes Specialties Company and it is therefore necessary that they dispose of waste material currently on hand. In order to facilitate this disposal, Isotopes Specialties Company has requested that in addition to John D. Vaden, the names of Carl Minkinen, Alfred J. Moses, Kenneth W. Newman, Arthur Seibel and Robert Selff be added to the license as individuals authorized to conduct or supervise the conduct of the waste disposal operation. These men are members of the Isotopes Specialties Company Isotope Committee and are well qualified in the handling of radioactive material.

The license has also been amended to authorize the disposal of liquid containing not more than 1×10^{-4} microcuries per milliliter of byproduct material and not more than 1 pound of source material per drum, without solidification, in completely filled 30 gallon steel drums having screw thread bung closure, when further encased in concrete within 55 gallon steel drums.

The packaging of liquid containing byproduct material in concentrations of not more than 1×10^{-4} microcuries per milliliter and 1 pound of source material per drum as specified above, is considered safe. These containers are capable of retaining the material during handling and under conditions normally incident to transportation and disposal. There will be no voids requiring provisions for pressure relief, and the amount of concrete added to the containers is sufficient to insure

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an average density of 10 pounds per gallon and the sinking of the containers in sea water. The radiation levels at the surface of these containers will be negligible because of the specific limitations to 1×10^{-4} microcuries per milliliter and 1 pound of source material per drum.

Notwithstanding my Memorandum of June 8, 1960, regarding the publication of a notice of proposed issuance of any licensing action authorizing the use of new types of sea disposal containers, in order to facilitate the disposal of waste material in the licensee's possession prior to January 15, 1961, the effective date of the sale of Isotopes Specialties Company, and in view of the very small amounts of radioactivity involved and the absence of increased possibility of hazard, prior notice of this licensing action has not been published in the Federal Register. Further, at a meeting on January 10, 1961 arranged by the licensee and attended by state and local officials and representatives from the Compliance Division, San Francisco Operations Office, these containers were discussed without objection by any of the parties.

The amendment of Condition 3 to add other qualified personnel does not involve the consideration of factors which are substantially different from those evaluated in the issuance of the original license.

Mr. Alexander Grendon, Coordinator of Atomic Energy Development and Radiation Protection, State of California, has been informed of this license amendment.

Attachment:

Copy of Amendment No. 4