FORM AEC-374
(11-57)

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

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.

Licensee	
1. Name **Middlesex County Sewerage Authority Central Treatment Plant**	3. License number **29-7400-1 (RA3)**
2. Address **Sayreville, New Jersey**	4. Expiration date **May 31, 1963**
	5. Reference No.

6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may posses at any one time
A. Strontium 90	**A. Sealed Source (U. S. Nuclear Corp. Type 325)**	**A. 200 millicuries**
B. Strontium 90	**B. Sealed Source (U. S. Nuclear Corp. Type 311)**	**B. 5 microcuries**

9. Authorized use

A. and B. To be used in a Nuclear Corporation of America Model MS-1 "Sludge Reader" density measuring gauge.

CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.

11. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards for Protection Against Radiation".

12. Byproduct material shall be used by, or under the supervision of, Alexander Loch, Robert Hudson, or Alexander Boehke.

13. Byproduct material as sealed sources shall not be opened or removed from the Model MS-1 device by the licensee.

14. Installation, maintenance, relocation, repair and initial radiation survey of the Model MS-1 device containing byproduct material and installation, replacement and disposal of the sealed source containing byproduct material and used in the Model MS-1 device shall be performed only by the Nuclear Corporation of America, or other persons specifically authorized by the Commission to perform such servi

(See Page 2)

Continued from Page 1

License Number 29-7400-1
(E63)

CONDITIONS

15. A. Each sealed source containing Strontium 90 shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, the sealed source shall not be put into use until tested.

B. The test shall be capable of detecting the presence of 0.005 microcurie of contamination on the test sample. The test sample shall be taken from the sealed source or from appropriate accessible surfaces of the device in which the sealed source is permanently or semipermanently mounted or stored. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.

C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five days of the test with the Director, Division of Licensing and Regulation, U. S. Atomic Energy Commission, Washington 25, D. C., describing the equipment involved, the test results and the corrective action taken. A copy of such report shall be sent to the manager of the nearest AEC operations office listed in Appendix D of Title 10, Code of Federal Regulations, Part 20.

D. Tests for leakage and/or contamination shall be performed by the Nuclear Corporation of America or by persons specifically authorized by the Commission to perform such services.

16. Byproduct material as sealed sources shall not be exposed to temperatures in excess of 300 degrees Fahrenheit.

17. Except as otherwise provided by this license, the licensee shall possess and use byproduct material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in his application dated April 18, 1961.

For the U. S. Atomic Energy Commission

Date May 25, 1961

Original Signed By
James R. Mason
By Chief, Isotopes Branch
Division of Licensing and Regulation
Washington 25, D. C.

1. Bzn/jms

REA 5/25/61

Date Received	Expiration Date	Issue Date	Technical Reviewer
APR 20 1961	May 31, 1963		MB
Control No.	**Reference No.**	**License No.**	**Amendment No.**
31023		29-7400-1 E63	

Isotope	Form	Possession Limit
A. Sr 90	A. Sealed source (U.S. Nuclear Corp ~~Model~~	A. 200 mc
B. Sr 90	B. Type 325)	B. 5 mc
C.	C.	C.
D.	D. [Same] Type 311	D.
E.	E.	E.
F.	F.	F.
G.	G.	G.
H.	H.	H.

Authorized Use

A. #13 To be used in a Nuclear Corp of America Model KS-1 "Sludge Reader" density measuring gauge.

See #13 of

BCHA Review: ☐ Yes ☑ No

Type User (Circle One) 1 2 3 4 5 6 7 Other

REMARKS, letters, phone calls, visits, exemptions, etc.
(Use reverse side if necessary)

Conditions

1. A B C	12.
2. A B C	13.
3. A B C D	14. A B C
4. A B	15.
5.	16.
6.	17.
7.	18.
8. A B C	19.
9. A B C	20.
10.	21.
11.	

(Use reverse side if Necessary)

☑ Approve ☐ Void

Technical Reviewer MB Date 5-7

Chief RHO Date 5-25-61

Mail to: Fjelsted

Date Mailed

8D —— Model KS-1 device ——

9B —— Sr 90 ——

D. — by the Nuclear Corp of America or other ——

10A —— Model KS-1 device ——
by the Nuclear Corp of amer
or other ——

11 313 dated 4-18-61

15 Byprod —— as sealed sources shall not be exposed to temperatures in excess of 302 degrees Fahrenheit.