FORM AEC-374(1) (12-57)

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE
Supplementary Sheet

License Number 47-260-2
(H62)

Amendment No. 8

Union Carbide Olefins Company
Special Instrumentation Division
437 MacCorkle Avenue
South Charleston, West Virginia

Attention: H. T. Sessions

In accordance with letter and application dated February 15, 1961, License No. 47-260-2 is amended as follows:

To revise Items 6A, 7A, 8A and 9A and to add Items 6B and C, 7B and C, 8B and C and 9B and C:

6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time
A. Cesium-137	A. Sealed sources (U. S. Radium Corp. Model LAB-236, LAB-111C, LAB-111D, LAB-236C1-4 or LAB-236C1-5)	A. Total for A and B is 4.6 curies (1 source of 500 millicuries. No other source shall exceed 200 millicuries)
B. Cesium-137	B. Sealed sources (Industrial Nucleonics Corp. Model BB-S-10053, BB-S-10051, BB-S-10062 or BB-S-10063)	B. (See A)
C. Cesium-137	C. Sealed source (U. S. Radium Corp. Model LAB-236)	C. 1 source of 1 curie

9. Authorized Use

A. To be used in Ohmart Corporation Model SHRM, SHRH, SHRD and HM-8 source holders for measuring the density of chemical process streams and the liquid level of chemicals in pipes and closed vessels.

B. Each source to be used in an Industrial Nucleonics Corporation Model LS-101 or LS-102 source unit for measuring the level of material in closed vessels.

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9. Authorized Use

C. To be used in an Ohmart Corporation Model SHRH source holder for experimental density measurements on storage vessels.

To revise Condition 14 to read:

14. A. Each sealed source containing Cesium 137 and used in Model SHRM and SHRH source holders shall be tested for leakage and/or contamination at intervals not to exceed 3 years. Each sealed source containing Cesium 137 and used in Model SHRD and HM-8 source holders shall be tested for leakage and/or contamination at intervals not to exceed 6 months. In the absence of a certificate from a transferor indicating that a test has been made within 6 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 microcuries 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 microcuries 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 5 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 licensee, as described in letter dated September 5, 1958 from L. J. Rogers, or by other persons specifically authorized by the Commission to perform such tests.

For the U. S. Atomic Energy Commission

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

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REB 4/7/61