

Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc.) Velsicol Chemical Corporation 341 E. Ohio Street Chicago, Illinois	(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a).) Tensyn Division-Fine Chemical Plant 4902 Central Avenue Chattanooga, Tennessee
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2. DEPARTMENT TO USE BYPRODUCT MATERIAL Fine Chemical	3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.) 41-6115-2 G62)
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4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.) Lamar O. Warren Donald R. Long	5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)
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6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.) Cesium - 137	(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.) Sealed Source (Industrial Nucleonics Model BB-S-10065 500 Millicuries
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7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.) To be used in an Industrial Nucleonics Model LS-102 source unit for continuous level measurements.

(Continued on reverse side)

A/11

Attachment for Form AEC-313, APPLICATION FOR BYPRODUCT MATERIAL LICENSE

8. (a) James C. Harrison attended Maryville College 2 years, followed by 2+ years at University of Tennessee, Knoxville. He holds a B.S. degree from University of Tennessee with a major in chemistry. He has taken the usual college mathematics and physics courses required of a chemistry major in an ACS approved curriculum.
- (b) John Addison holds a B.S. degree from University of Southern Mississippi with majors in chemistry and biology. He has a minor in mathematics (through calculus) and has taken one year of physics.
- (c) Charles Coscia holds a B.S. degree from Memphis State University with a major in chemistry and a minor in mathematics (through calculus). He has taken one year of physics.
9. (a) None.
- (b) Performed several radioactivity experiments in physical chemistry course in college.
- (c) Performed several radioactivity experiments in physical chemistry course in college. While serving in U.S. Army Medical Service took one month training in radioactivity monitoring techniques and instruments using a variety of sources.
13. Instrument will be located in plant control laboratory and the effluent gas will be piped into a fume hood at temperatures above 150°C.
14. Follow manufacturer's recommendations.
15. Return to supplier, F&M Scientific Corporation, Avondale, Pennsylvania.