



DEPARTMENT OF TRANSPORTATION  
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION  
WASHINGTON, D.C. 20590

RECEIVED  
APR 11 1979  
ENGINEERED PRODUCTS

IAEA CERTIFICATE OF COMPETENT AUTHORITY

REFER TO:

Special Form Radioactive Material Encapsulation

Certificate Number USA/0031/S

(Revision 1)

This certifies that the encapsulated source, as described, when loaded with the authorized radioactive contents, has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in IAEA<sup>1</sup> and USA<sup>2</sup> Regulations for the transport of radioactive materials.

I. Source Description - The source described by this certificate is identified as Monsanto Research Corporation MRC Model 2727-B. The capsule is a right cylinder 1.5" diameter by 2.5" long of stainless steel with a minimum wall thickness of 0.062" and a welded closure, assembled as described in Monsanto Drawing A2727 BX01.

II. Radioactive Contents - The authorized radioactive contents of this source consist of either of the following:

a. Not more than 27.5 Ci of Americium-241 or 55 Ci of Plutonium 238 as powdered oxide mixed with powdered Beryllium, Fluorine (as CaF<sub>2</sub>), Boron or Lithium (as metal or salts) within a stainless steel inner capsule.

b. Not more than 1 Ci of Americium-241 or 5 Ci of Plutonium 238 as powdered oxide, nitrate or chloride, or 12 Ci of polonium-210 as metal or oxide within an inner thin window capsule.

c. Not more than 5.5 Ci of Americium-241 as oxide within a stainless steel inner capsule.

III. This certificate, unless renewed, expires April 30, 1982.

This certificate is issued in accordance with Marginal C-6.1 of the IAEA Regulations and in response to the March 6, 1974, petition by the Monsanto Research Corporation, Dayton, Ohio, and in consideration of the associated information therein.

Certified by:

R. R. Rawl, Health Physicist  
Office of Hazardous Materials Regulation  
Materials Transportation Bureau  
U.S. Department of Transportation

April 12, 1979  
(Date)