

PDR

71-9142

Monsanto

ENGINEERED PRODUCTS

MONSANTO RESEARCH CORPORATION

Dayton Laboratory
151E Nicholas Road
P. O. Box 8, Station B
Dayton, Ohio 45407
Phones: (513) 268-6769
(513) 268-3411
Telegraph: TWX 810-459-1681

5 March 1980

RECEIVED

MAR 11 PM 2 45

Mr. Charles E. MacDonald, Chief
Transportation Branch
Division of Fuel Cycle and Material Safety
Nuclear Regulatory Commission
Washington, D.C. 20555

MRC-20WC-4

Dear Mr. MacDonald:

In accordance with the provision of 10CFR 71.42, Monsanto Research Corporation requests approval to ship Pu-238 in quantities greater than 20 but no greater than 100 curies in DOT Specification 20 WC-4 shipping containers (49 CFR 178.194).

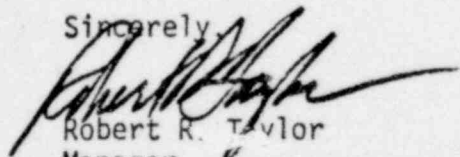
The Plutonium-238 sources will be at least double-encapsulated in metal containers such that the sources meet special form criteria as defined in 10 CFR 71.4 (o). After welding, each encapsulation will be individually leak tested per ANSI N542-1977, procedure A 2.2.3 (He pressure bubble test), or other methods at least as stringent. Prior to shipment, the outer capsule will be smear tested per ANSI N542-1977, procedure A2.1.1 except that the wipe will not moisten with solvent. If the wipe shows less than 10 pCi removable contamination, the source will be shipped to the customer.

For this request we enclose 8 copies of MRC drawing B2625-AA00 which describes the 20WC container we are building. We also enclose a check for \$350 to cover the \$200 application fee for a regulatory service, category 11E per 10CFR 170.31. The remainder of the \$350 is to be applied to the approval fee.

Category 11E is selected because: (1) the package will contain radioactive material less than 20 times the type A quantity for special form material as defined in 10 CFR 71.4(q), and (2) we intend to ship no more than 6 grams of Pu-238.

Monsanto has several customers waiting for deliveries of Pu8 sources. We intend to use the DOT specification 20WC for these deliveries, and we respectfully request your prompt review and approval of this submittal.

Sincerely,



Robert R. Taylor
Manager
Operations

Applicant.....
Check No. 1957.....
Amount/Fee Category 352-11E.....
Type of Fee Application.....
Date Check Rec'd. 2/17/80.....
Received By.....

Additional fee due
prior to issuance
of Certificate.

a subsidiary of Monsanto Company

15727

8004080354