

Monsanto

ELECTRONICS DIVISION

Monsanto Company
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August 14, 1980

Director of Nuclear Material Safety
and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

The attached report is submitted pursuant to paragraph 32.12, 10 CFR 32 entitled "Material Transfer Reports" as applied to specific license 24-16931-01 and 24-16931.02E issued to Monsanto Company for the purposes of possessing, handling and distributing semiconductor grade silicon that has undergone neutron transmutation doping by irradiation with thermal neutrons.

We trust that this report will meet the requirements of the regulations.

Sincerely yours,

Kenneth E. Storms

Kenneth E. Storms
Industrial Hygienist

Bobbie D. Stone

Bobbie D. Stone
Radiation Protection Officer

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Material Transfer Report

Submitted to

Nuclear Regulatory Commission

Pursuant to

Paragraph 32.12, 10 CFR 32

to period

June 30, 1979 to June 30, 1980

Type and quantity of product into which byproduct has been introduced:

4,514.3 kilograms of semiconductor grade elemental silicon transferred during period.

Owner of material at time of by-product introduction:

Monsanto Industrial Chemicals Company, an operating unit of Monsanto Co., 800 N. Lindbergh Blvd., St. Louis, MO 63166.

Type and Quantity of radionuclide introduced into each such product:

Phosphorous-32 at a maximum concentration of 2×10^{-4} microcuries/gram at time of receipt from irradiating facility.

Initial concentration of radionuclide in product at time of transfer:

$<2 \times 10^{-4}$ microcuries/gram