

July 2, 1979

Certified Number 124125  
Return Receipt Requested

Freedom of Information Officer  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

**FREEDOM OF INFORMATION  
ACT REQUEST**

FOIA-99-250  
100-7-6-79

Dear Person,

Under the provisions of the Freedom of Information Act, 5 U.S.C. 552, I am requesting access to Documents of other means of data transmittal to

1. The complete inventory by radioisotope (name and Number) of all fission products produced in six months and one year standard operation of a clearly defined Atomic Reactor (size of initial Core expressed in Kilograms and composition-u-235/u-238-for a given number of power units produced.  
A. This information should break down each isotope into gram created per unit of time for a specified amount of material.
2. The inventory of fissionable material produced in an Atomic Reactor with a specified fuel core (weight & composition), ie. Plutonium 239 produced by neutron activation or bombardment of the U-238 matrix by the fissioning of the u-235 (grams produced per unit of time 6 mos. & one year.
3. the equations for translating curies into grams, and vice versa for most radioisotopes.
4. A complete list of reactors presently operating or expected to have radioactive components on site by May, 1988 showing weight and composition of core, number of units per site, location in longitude & latitude along with a description from a recognized landmark, amount of fuel allowed in assembly buildings, amount of "spent fuel" in storage tanks, the Corporate owners of all units above and their business addresses.
5. Data as to why Plutonium Oxide is considered more biologically hazardous than the pure metal or other compounds.
6. The current U.S. inventory of Plutonium 239 in grams or ounces and its location reasonably described.
7. Legal ownership of all fissionable materials especially Plutonium.
8. Current "Market Value" for plutonium 239 on a gram or ounce basis, ie. for accounting or penalty assessment purposes or how much does it cost to produce.
9. Locations of plants and ownership where Plutonium 239 is separated from u 235/u 238/fission product matrix and their production capacity.

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10. The chemical process for separating Plutonium from above mentioned compound.
11. Why Japan has its Plutonium/uranium separated in England and what does England do with it.
12. Description of Thorium/u 233 fission process reactors comparing fission product waste production and fissionable material produced for a given amount of material fissioned for a specified amount of time.

I need this information to calculate the radioactive contamination left after an Atomic reactor or other weapons making plant is disintegrated by an atomic bomb.

As you know the act permits you to waive or reduce fees for indigent requesters and I state that I am qualified for such an exemption. If fees do not exceed twenty dollars, however, send the material without informing me.

If you deny any part of this request, please specify the reason and give the appeal procedures please.

Please respond within ten working days as the law stipulates.

Thank you.

Sincerely,

*Lawrence Walter Skinner*

Lawrence Walter Skinner  
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San Francisco, CA 94102