



**Department of Energy**  
Savannah River Operations Office  
P.O. Box A  
Aiken, South Carolina 29802

APR 14 2014

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Tom Clements  
Friends of the Earth  
1112 Florence Street  
Columbia, SC 29201

Dear Mr. Clements:

SUBJECT: Freedom of Information Act (FOIA) Request Savannah River Operations Office  
SRO-2014-00449-F

This is our first partial response to your January 6, 2014 FOIA request. You asked for the following documents from the September 9, 2008, presentation "Plutonium Disposition through Defense Waste Processing Facility" by Jean Ridley:

1. The "analysis – via any document(s), report(s), or memo(s) – demonstrating that "approximately, 20 kg/canister" of plutonium can be loaded into a DWPF canister and be "critically safe" this includes any pertinent criticality calculations;
2. Any "Nuclear Criticality Safety Evaluations" and "Documented Safety Analysis" concerning the loading of plutonium into DWPF canisters (see p. 14 attached);
3. Any subsequent analysis or evaluations or formal assessment(s) or response(s) by the Savannah River Operations Office, Savannah River National Laboratory or any other DOE entity concerning the loading of "approximately 20kg/canister" or other amounts of plutonium into DWPF canisters; and
4. Any attachments to the documents requested above.

The documents shown on the enclosed Index List are partially responsive to your request. Based on your justification for a fee waiver, DOE-SR is waiving all allowable fees associated with the processing of your request.

As Chief Counsel, DOE-SR, I am the authorizing official for documents responsive to this request. If you have any questions, please contact Ms. Pauline Conner at (803) 952-8134.

Sincerely,

A handwritten signature in dark ink, appearing to read "Lucy M. Knowles", is written over the typed name.

Lucy M. Knowles  
Authorizing Official

Enclosures  
Index List and Requested Documents

**FREEDOM OF INFORMATION ACT**  
**SAVANNAH RIVER OPERATIONS OFFICE SRO-2014-00449-F**  
**1<sup>st</sup> PARTIAL RESPONSIVE DOCUMENTS**

<b>Doc No.</b>	<b>Subject</b>	<b>Date</b>	<b>Pages</b>
001	WSRC-IM-96-133, Westinghouse Savannah River Company (WSRC) Nuclear Criticality Safety Methods Manual, Approved: C. E. Apperson, Jr., Criticality and Radiation Transport Manager	9/26/1996	203
002	Calculation Number: N-CLC-F-00238; Calculation Cover Sheet; Project: Plutonium (Pu) Immobilization; Title: Review of Nuclear Criticality Safety of Plutonium Immobilization Project Slab Blender	5/11/1999	23
003	Savannah River National Laboratory (SRNL); Study of the Local Environment of Glasses Being Considered for Pu Disposition by J. C. Marra, C. L. Crawford, R. J. Lascola and S. V. Stefanovsky	2/2009	1
004	Pu In Glass Literature Study	9/14/2009	16
005	Presentation: SRNL Study of the Local Environment of Glasses Being Considered for Pu Disposition by Jim Marra, Charles Crawford, Rob Lascola, and Sergey Stefanovsky (SIA Radon, Moscow, Russia)	10/2009	15
006	SRNL-RP-2009-01450, Rev. 0; SRNL Task Technical & Quality Assurance (QA) Plan; Task Title: Pu Solubility Studies	12/1/2009	14
007	Pu Glass Solubility Testing Summary by J. C. Marra, C. L. Crawford, and K. M. Fox	8/27/2010	12
008	SRNL-STI-2010-00766, Rev. 0; Plutonium Solubility in High-Level Waste Alkali Borosilicate Glass by J. C. Marra, C. L. Crawford, K. M. Fox, and N. E. Bibler	12/2010	44
009	Study of the Local Environment of Glasses Being Considered for Pu Disposition by J. C. Marra, C. L. Crawford, and R. J. Lascola (SRNL) and S. V. Stefanovsky (SIA Radon Institute)	Undated	1
TOTAL			329