



# SAINT PETER'S COLLEGE

2641 Kennedy Boulevard  
Jersey City, New Jersey 07306

PHYSICS DEPARTMENT  
201-915-9405

To: Sam Henderson

NRC, Bldg I

FAX # (610) 337-5209

From: James J. Grant, Chair

FAX # (201) 915-9062

Re: Control # 127054

Date: Aug 5, 1999

In 1970 the Physics Dept received 2493.1 kg of natural uranium in the form of 1,381 aluminum-clad slugs (see attached). When the material was transferred to Oak Ridge in May 1999, only 1377 slugs were found, a shortage of 4 slugs or approximately 7 kg. I carried out a diligent search of the Department's laboratories and was not able to find the missing slugs.

In view of the recent transfer I checked the radiatori levels near several sample uranium slugs. The results of that survey are shown in the enclosed

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I surveyed the former Nuclear Lab today  
with a calibrated Geiger Counter. The combined  
 $\beta + \gamma$  background levels are  $< .01$  mR/hr.

If you need further clarification I can  
be reached at (201) 384-9454

James J. Sant



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## Information Pertinent to the Return of Declared Scrap Material

The material to be returned consists of 2493 Kg of natural uranium in the form of 1,381 cylindrical slugs, coated in aluminum, measuring approximately 1 1/8 inches in diameter and 8 1/2 inches long (Savannah River Slugs). The material is held under NRC License # SUC-1576 (formerly SUD-226).

The material was used for educational purposes in a subcritical nuclear assembly. It was irradiated for approximately three months per year from 1960, when it was received, through 1984. It has not been irradiated since 1985.

The neutron flux was provided by five one Curie PuBe neutron sources which have since been returned to Los Alamos. The average beta radiation level at the surface of the material is 5.3 mR/hr and 0.3 mR/hr at one foot. The average gamma radiation level at the surface is 0.9 mR/hr and 0.2 mR/hr at one foot.

To the best of my knowledge, the material does not contain discrete quantities of fission product or transuranic elements nor does it possess abnormal radioactive characteristics. The material does not contain any Resource Conservation and Recovery Act hazardous wastes.

NB  
J.S.

U.S. ATOMIC ENERGY COMMISSION  
NUCLEAR MATERIAL TRANSFER REPORT

DOCUMENTATION (Only if document is classified Secret)

Page of Pages 0407 of Copies, Series

1. (1) 1	2. Transfer Code (2) A (3) A (4) A	3. Transfer Series (5) RIS From (5-7) DAA (6) RIS To (5-11) ZTX (12) 1 (13) 01 (19)	4. No. of Lines (20-21)	5. Nature of Transaction Complete if Applicable (22) Transaction Type <input checked="" type="checkbox"/> A Transaction Type <input type="checkbox"/> Transaction Type <input type="checkbox"/>	NO. Distribution of Copies 1 2 3 4 5 6 7 8 9 10
6. Name and Address of Shipper U. S. Atomic Energy Commission Savannah River Operations Office P. O. Box A, Aiken, S. C. 29801 Attention: N. H. Seebeck, Jr.			7. Name and Address of Receiver St. Peters College Jersey City, New Jersey Attention:		
8. Shipped for Account of RIS (23-25)		9. Shipped to Account of RIS ZTX (26-28) Same		10. Date of Transfer of Financial Responsibility Mo. (29-30) 9 Day (31-32) 15 Yr. (33) 70	
11. Material Type and Description 1,381 Aluminum-clad Normal Uranium Slugs (81)					
12. Transfer Authority—SNM Draft Number, Reference, or Order Number (34-50)					

13. SHIPPER'S DATA

A. Date Shipped Mo. (70-71) 9 Day (72-73) 15 Yr. (74) 70			B. Form No. (75) 4		C. Signature of Authorized Official and Date Signed <i>M. Seebeck</i> 9/21/70							
Line No. (20-21) D	AEC Project Number and Identification (22-31) E	Material Type (32-33) F	Material Descrip. Code G	Compo-sition Code (34-36) H	Owner Code (37) I	Gross Weight J	Net Weight K	Element Weight (40-50) L	Weight % Isotope (51-54) M	Isotope Weight (55-65) N	Limits of Error Element (65-70) O Isotope (71-75) P	
01		81		462	G			2,493.10 kgs				
This transfer is for record purposes only and does not involve a physical transfer of material.												

14. RECEIVER'S DATA

A. Date Received Mo. (70-71) 9 Day (72-73) 15 Yr. (74) 70			B. Form No. (75) 4		C. Signature of Authorized Official and Date Signed <i>Conradus C. Galvin Prof of Physics</i> 10/8/70							
Line No. (20-21) D	AEC Project Number and Identification (22-31) E	Material Type (32-33) F	Material Descrip. Code G	Compo-sition Code (34-36) H	Owner Code (37) I	Gross Weight J	Net Weight K	Element Weight (40-50) L	Weight % Isotope (51-54) M	Isotope Weight (55-65) N	Limits of Error Element (65-70) O Isotope (71-75) P	
01		81		462	A			2,493.10 kgs				