

**Y-12 NATIONAL SECURITY COMPLEX
ENRICHED URANIUM DECLARATION REQUEST**

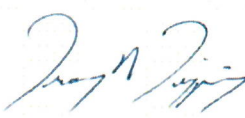
1. DECLARATION REQUEST FOR: SCRAP STORAGE 2. DECLARATION NUMBER: **ZVS-2019-002**

SECTION I (Items 1-6) - FOR USE BY SHIPPING SITE

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- * Please identify if this declaration is submitted as "scrap" or "storage" by placing an "X" in the appropriate box for Item 1. A scrap or storage declaration is comprised of all the completed forms in this document.
 - * Please assign a Declaration Number to this document. The Declaration Number assigned in Item 2 should be carried forward to all forms in this document. A Declaration Number is generally comprised of the shipping site's three letter RIS, the calendar year the declaration is submitted, and a three digit number to identify the chronological/sequential numbering for declarations submitted for the calendar year. An example of the Declaration Number in the correct format is ZFZ-2019-001.
 - * A declaration request should be comprised of materials that are of the same material form and constituents.
 - * It is imperative that a complete and concise description of both the material and packaging be furnished with each declaration request. If the material requires repackaging prior to shipment, please provide as much packaging information as possible based on the packaging plan for this material. Indicate on the forms Shipping Container Data - Part 1 and Inner Container Data - Part 1 if the packaging information provided is actual or proposed.
 - * After all forms have been completed, forward the original document to shipping site's DOE Field Office and send copy to the attention of the Central Scrap Management Office, Y-12 National Security Complex, PO Box 2009, Oak Ridge TN 37831-8207.

3. SHIPPING SITE NAME: The University of Texas at Austin
SHIPPING SITE ADDRESS: 10100 Burnet Road, Building 159, Austin, TX 78758

Shipping Site Representative hereby certifies that the material covered by this request will be in conformance with all applicable regulations.

4. DATE:	5. PRINTED NAME: Tracy N Tipping TITLE: Health Physicist PHONE NUMBER: 512-232-4174 E-MAIL ADDRESS: tipping@Austin.utexas.edu	6. SIGNATURE:  Digitally signed by 3270 client DN: c=US, st=Texas, o=The University of Texas at Austin, ou=Information Technology Services, cn=3270 client Date: 2019.11.14 07:22:04 -06'00'
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SECTION II (Items 7-9) - FOR CONCURRENCE BY COGNIZANT DOE FIELD OFFICE
(Forward signed form to the Y-12 National Security Complex CSMO.)

7. DATE:	8. DOE FIELD OFFICE NAME:	9. SIGNATURE:
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SECTION III (Items 10-16) - FOR USE BY THE CENTRAL SCRAP MANAGEMENT OFFICE (CSMO)

10. RESPONSE:
The uranium scrap listed in Scrap Declaration ZVS-2019-002 should be shipped to the Oak Ridge Y-12 National Security Complex for storage, processing, and reuse. Please contact Phil Cates at (865) 576-5002 for authorization to ship. Material Control and Accountability (MC&A) conditions should be documented and coordinated through the Y-12 MC&A organization [contact Sean King at (865) 241-3064]. A copy of the 741 document should be provided to Becky Eddy, NNSA Production Office/Y-12. Y-12 should receive the material in Project No. FMB0505011.

Concurrence of Section III by the Y-12 National Security Complex

11. DATE:	12. Y-12 National Security Complex CSMO Manager Tammy G. Narramore	13. SIGNATURE:
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Concurrence of Section III by the NNSA Production Office (NPO)

14. DATE:	15. NPO CSMO Manager Melissa A. Einwechter	16. SIGNATURE: Melissa A. Einwechter Digitally signed by Melissa A. Einwechter Date: 2019.11.14 10:26:07 -05'00'
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Enriched Uranium Declaration Request Form

This document has been reviewed by a Y-12 DC/UCNI-RO and has been determined to be UNCLASSIFIED and contains no UCNI. This review does not constitute clearance for Public Release.

Name: Mike Burgess Date: 11/13/2019

MATERIAL

General Description of Material: (including type of material, physical and chemical form, description of matrix for mixtures, amount, etc.)

8 primary discs and 36 spacer discs from a sub-critical assembly. The total loading of the subcritical assembly is about 2.385 kg Uranium (0.47 kg U235) at about 19.78% enrichment. The primary discs and spacer discs consist of a homogeneous mixture of UO2 in polyethylene (the weight ratio is ~14% UO2 and 86% polyethylene). The primary discs, prior to cutting, varied in thicknesses of 2", 1", and 1/2".

Primary Discs

The 2" thick discs (6 total) were cut into pieces and loaded into 24 cans with each can containing about 17.2 g U235 (19.78% enrichment).

The 1" thick disc (1 total) was cut into pieces and loaded into 2 cans with each can containing about 17.3 g U235.

The 1/2" thick disc (1 total) was cut into pieces and loaded into 1 can containing about 19.54 g U235.

-- All pieces varied in size (to fit the 4.25" dia x 8.75" L can) and includes fines from the break and shear and sawing process.

Spacer Discs

There are 36 spacer discs loaded into 1 can. Loading of the can is ~23.8 g Uranium (4.7 g U235) enriched to 19.78%.

History of Material: Include original purpose of the material and detailed historical information concerning processing, handling and storage of the material. Attach original paperwork including shipping papers, 741 numbers, etc., if available.

The subcritical assembly was received at the University of Texas in the late 1950's from the Lockheed Aircraft Corporation. The assembly was not used in a reactor or accelerator but was exposed to neutrons from a PuBe source supporting various experiments. It has not been utilized since the late 1990's. The fission product activity has been estimated to be well below 3 microcuries (rough order of magnitude conservative calculation) of which the majority is Cs-137.

General Description of Packaging (Inner to Outer)

Example:

Packaging that is in direct contact with material:	<i>Material (foil) in 1-liter polybottle</i>
Next level of packaging:	<i>Polybottle in plastic bag</i>
Next level of packaging:	<i>Plastic bag in paint can</i>
Next level of packaging:	<i>Paint can in stainless steel 5-gallon can</i>
Next level of packaging:	N/A
Next level of packaging:	N/A
Next level of packaging:	N/A
Shipping Container:	<i>5-gallon can in stainless steel 55-gallon drum with vermiculite</i>

For This Declaration:

Packaging that is in direct contact with material:	10 gram plastic bag, zip loc type
Next level of packaging:	4.25" dia. x 8.75" L stainless steel can
Next level of packaging:	10 gallon drum, 14" dia. x 17.4" tall with foam insert
Next level of packaging:	NA
Next level of packaging:	NA
Next level of packaging:	NA
Shipping Container:	Type A, 30 gallon, 18.25" dia. x 26.7" tall (carbon steel)

SHIPMENT

Location and RIS of material to be shipped:	Austin, TX / ZVS
Name of Shipping Site Representative:	Tracy Tipping
Shipping Site Rep Phone Number:	512-232-4174
Shipping Method (commercial or government):	Commercial

Declaration Description Form

SHIPPING CONTAINER DATA - PART 1

The Shipping Container is the outermost element of a shipping package and is also known as the "outer confinement" package.

Declaration Number: ZVS-2019-002

Is packaging information you are providing in the table below based on actual or proposed packaging?	X	Actual packaging that meets or exceeds shipping requirements Approximate date (mo/yr) material was packaged 11/13/2019	X	Proposed packaging that meets or exceeds shipping requirements Approximate date (mo/yr) material will be packaged 11/1/2019

Shipping Container Data - Part 1								
Type A or Type B Packaging (A or B)	Shipping Container Serial/ID Number	Shipping Authorization for Type A and B Fissile Packaging (e.g., NRC CoC, NNSA OTC, or DOT-approved package)	NRC CoC or NNSA OTC Revision Number for Type A and Type B Fissile Packaging	Shipping Container Security Seal/TID Number	Shipping Container Size (e.g., 55-gal)	Shipping Container Construction Material (e.g. stainless steel)	Type Packing Material used within the Shipping Container (e.g. celotex)	Gross Weight (Shipping Container + Contents) (Indicate unit of measure)
A	1	10CFR71.22		41811P /	30-gal	Carbon Steel	10-gal Type A	67.0 lb
A	2	10CFR71.22		41810P /	30-gal	Carbon Steel	10-gal Type A	66.0
A	3	10CFR71.22		41808P /	30-gal	Carbon Steel	10-gal Type A	67.0
A	4	10CFR71.22		41807P /	30-gal	Carbon Steel	10-gal Type A	67.0
A	5	10CFR71.22		41806P /	30-gal	Carbon Steel	10-gal Type A	67.0
A	6	10CFR71.22		41805P /	30-gal	Carbon Steel	10-gal Type A	66.0
A	7	10CFR71.22		41813P /	30-gal	Carbon Steel	10-gal Type A	67.0
A	8	10CFR71.22		41809P /	30-gal	Carbon Steel	10-gal Type A	67.0
A	9	10CFR71.22		41803P /	30-gal	Carbon Steel	10-gal Type A	66.0
A	10	10CFR71.22		41804P /	30-gal	Carbon Steel	10-gal Type A	66.0
10	Total number of shipping containers on this page							
10	Total gross weight on this page							
Total number of shipping containers on all pages of Shipping Container Data - Part 1 Forms thru Page [1]								Total gross weight on all pages of Shipping Container Data Part - 1 Forms thru Page[1]

SHIPPING CONTAINER DATA - PART 1								
CoC=Certificate of Compliance/OTC=Offsite Transport Certification								

SHIPPING CONTAINER DATA - PART 2

Declaration Number:

ZVS-2019-002

Shipping Container Data - Part 2

Shipping Container Serial/ID Number (from Part - 1)	Mass of hydrogenous packing material (if applicable)* (grams)	H:X	CoC content description used to calculate the CSI for ES-3100	CSI	Radioactive (RAD) Label Category (I, II, III)	Removable Surface Contamination on the Shipping Container (Alpha) dpm/100cm ²	Removable Surface Contamination on the Shipping Container (Beta-Gamma) dpm/100cm ²	Gamma Exposure @ 1 foot from Outer Surface of the Shipping Container (mR/hr)	Deep Dose (gamma + neutron @ 1 foot from the Shipping Container) (mrem/hr)
1		0		10	II	<1.73	<7.25	<0.1	<0.1
2		0		10	II	<1.73	<7.25	<0.1	<0.1
3		0		10	II	<1.73	<7.25	<0.1	<0.1
4		0		10	II	<1.73	<7.25	<0.1	<0.1
5		0		10	II	<1.73	<7.25	<0.1	<0.1
6		0		10	II	<1.73	<7.25	<0.1	<0.1
7		0		10	II	<1.73	<7.25	<0.1	<0.1
8		0		10	II	<1.73	<7.25	<0.1	<0.1
9		0		10	II	<1.73	<7.25	<0.1	<0.1
10		0		10	II	<1.73	<7.25	<0.1	<0.1

*not to exceed 500 grams per CV in ES-3100

Shipping Container Data - Part 2 Form

INNER (PRIMARY) CONTAINER DATA - PART 1

Declaration Number: ZVS-2019-002

The inner (primary) container is a stand-alone container that houses the material item(s). The inner (primary) container can be removed from the shipping container and must have an NMC&A approved TID attached. The inner (primary) container may be a stainless steel paint can, crimp-sealed can, specifically designed container, etc. The inner (primary) container may also house additional convenience packaging such as single or multiple polybottles, plastic bags, etc. that contain the actual material item(s). The gross, tare, and net weights will be established for the inner (primary) container. The inner (primary) container is not the same as the inner containment vessel (e.g., 2R).

Is packaging information you are providing in the table below based on actual or proposed packaging?	X	Actual packaging that meets or exceeds shipping requirements	Proposed packaging that meets or exceeds shipping requirements
	11/13/2019	Approximate date (mo/yr) material was packaged	

Inner (Primary) Container Data - Part 1									
Shipping Container Serial/ID Number (from Shipping Container Data - Part 1)	Inner (Primary) Container Serial/ID Number (if applicable)	NMC&A Approved TID Number	Inner (Primary) Container Type (e.g., paint can, crimp-sealed can, etc.)	Inner (Primary) Container Size (e.g., 1-gallon, 2-liter, etc.)	Inner (Primary) Container Construction Material (e.g., stainless steel, etc.)	Type of Lid Closure on Inner (Primary) Container (e.g., screw-cap, paint lid, pressed, crimped, etc.)	Outer Diameter of Inner (Primary) Container (inches)	Overall Height of Inner (Primary) Container (inches)	Packing Material within Inner (Primary) Container (if applicable)
1	A-1-A	30091F / 30092F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
1	A-1-B	30093F / 30094F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
2	A-2-A	30087F / 30088F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
2	A-2-B	30089F / 30090F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
3	A-3-A	30079F / 30080F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
3	A-3-B	30081F / 30082F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
4	A-4-A	30075F / 30076F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
4	A-4-B	30077F / 30078F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
5	A-5-A	30071F / 30072F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
5	A-5-B	30073F / 30074F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
6	A-6-A	30067F / 30068F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
6	A-6-B	30069F / 30070F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
7	A-7-A	30099F / 30100F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
7	A-7-B	30301F / 30302F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
8	A-8-A	30083F / 30084F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
8	A-8-B	30085F / 30086F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
9	A-9-A	30059F / 30060F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
9	A-9-B	30061F / 30062F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
10	A-10-A	30063F / 30064F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
10	A-10-B	30065F / 30066F	crimp-seal	650 ml	stainless steel	crimped	4.25	8.75	10 gram plastic bag
		Total number of inner (primary) containers on this page							
		Total number of inner (primary) containers thru Page [1] of Inner Container Data - Part 1 Forms							

Inner (Primary) Container - Part 1 Form

INNER (PRIMARY) CONTAINER DATA - PART 2

Declaration Number: **ZVS-2019-002**

Inner (Primary) Container Data - Part 2

Shipping Container Serial/ID Number (from Shipping Container Data - Part 1)	Inner (Primary) Container Serial/ID Number (from Inner Container Data - Part -1, if applicable)	Gross Weight of Inner (Primary) Container (grams)	Tare Weight of Inner (Primary) Container (grams)	Net Weight of Inner (Primary) Container (grams)	Removable Surface Contamination on the Inner (Primary) Container (Alpha) dpm/100cm ²	Removable Surface Contamination on the Inner (Primary) Container (Beta-Gamma) dpm/100cm ²	Gamma Exposure @ 1 foot from Outer Surface of Inner (Primary) Container (mR/hr)	Deep Dose (gamma + neutron @ 1 foot from Inner (Primary) Container) (mrem/hr)
1	A-1-A	1,052.00	273.00	779.00	4.035	8.108	<0.1	<0.1
1	A-1-B	901.00	274.00	627.00	<1.73	<7.25	<0.1	<0.1
2	A-2-A	878.00	274.00	604.00	6.916	<7.25	<0.1	<0.1
2	A-2-B	893.00	275.00	618.00	3.458	<7.25	<0.1	<0.1
3	A-3-A	935.00	275.00	660.00	2.305	<7.25	<0.1	<0.1
3	A-3-B	975.00	274.00	701.00	<1.73	<7.25	<0.1	<0.1
4	A-4-A	886.00	273.00	613.00	<1.73	<7.25	<0.1	<0.1
4	A-4-B	1,007.00	272.00	735.00	5.764	<7.25	<0.1	<0.1
5	A-5-A	1,042.00	272.00	770.00	<1.73	<7.25	<0.1	<0.1
5	A-5-B	810.00	273.00	537.00	<1.73	<7.25	<0.1	<0.1
6	A-6-A	927.00	274.00	653.00	<1.73	<7.25	<0.1	<0.1
6	A-6-B	1,129.00	286.00	843.00	<1.73	<7.25	<0.1	<0.1
7	A-7-A	950.00	273.00	677.00	2.305	<7.25	<0.1	<0.1
7	A-7-B	1,006.00	273.00	733.00	<1.73	<7.25	<0.1	<0.1
8	A-8-A	971.00	273.00	698.00	<1.73	<7.25	<0.1	<0.1
8	A-8-B	975.00	275.00	700.00	2.882	<7.25	<0.1	<0.1
9	A-9-A	968.00	271.00	697.00	<1.73	<7.25	<0.1	<0.1
9	A-9-B	960.00	273.00	687.00	<1.73	<7.25	<0.1	<0.1
10	A-10-A	974.00	272.00	702.00	2.305	<7.25	<0.1	<0.1
10	A-10-B	979.00	275.00	704.00	2.882	<7.25	<0.1	<0.1
Total weights on this page:		19,218.000	5,480.000	13,738.000				
Total weights from all pages of Inner Container Data - Part 2 thru Page [1]		19,218.000	5,480.000	13,738.000				

Inner Container Data - Part 2 Form

INNER (PRIMARY) CONTAINER DATA - PART 2

Declaration Number: **ZVS-2019-002**

Inner (Primary) Container Data - Part 2

Shipping Container Serial/ID Number (from Shipping Container Data - Part 1)	Inner (Primary) Container Serial/ID Number (from Inner Container Data - Part -1, if applicable)	Gross Weight of Inner (Primary) Container (grams)	Tare Weight of Inner (Primary) Container (grams)	Net Weight of Inner (Primary) Container (grams)	Removable Surface Contamination on the Inner (Primary) Container (Alpha) dpm/100cm ²	Removable Surface Contamination on the Inner (Primary) Container (Beta-Gamma) dpm/100cm ²	Gamma Exposure @ 1 foot from Outer Surface of Inner (Primary) Container (mR/hr)	Deep Dose (gamma + neutron @ 1 foot from Inner (Primary) Container) (mrem/hr)
11	A-11-A	1,028.00	274.00	754.00	<1.73	<7.25	<0.1	<0.1
11	A-11-B	994.00	273.00	721.00	<1.73	<7.25	<0.1	<0.1
12	A-12-A	977.00	274.00	703.00	5.187	<7.25	<0.1	<0.1
12	A-12-B	886.00	274.00	612.00	<1.73	<7.25	<0.1	<0.1
13	A-13-A	1,073.00	273.00	800.00	<1.73	<7.25	<0.1	<0.1
13	A-13-B	869.00	275.00	594.00	3.458	<7.25	<0.1	<0.1
14	A-14-A	963.00	274.00	689.00	2.305	<7.25	<0.1	<0.1
14	A-14-B	447.00	268.00	179.00	3.458	<7.25	<0.1	<0.1
Total weights on this page:		7,237.000	2,185.000	5,052.000				
Total weights from all pages of Inner Container Data - Part 2 thru Page [2]		26,455.000	7,665.000	18,790.000				

Inner Container Data - Part 2 Form

MATERIAL DATA - PART 1

Declaration Number: **ZVS-2019-002**

Material data applies to the actual item(s) being shipped.

Material Data - Part 1

Shipping Container Serial/ID Number (from Shipping Container Data - Part 1)	Inner (Primary) Container Serial/ID Number (from Inner Container Data - Part 1, if applicable)	Material Item ID Number	Material Description*	Foreign Obligations (EURATOM etc...)	Net Weight of Material (grams)	Weight % SNM	Grams Uranium	Weight % U-235	Grams U-235
1	A-1-A	1A	UO2 dispersed in polyethylene as pieces and fines	None	779.00	2.63%	103.71	19.76%	20.51
1	A-1-B	1B	UO2 dispersed in polyethylene as pieces and fines	None	627.00	2.63%	83.48	19.76%	16.51
2	A-2-A	1C	UO2 dispersed in polyethylene as pieces and fines	None	604.00	2.63%	80.42	19.76%	15.91
2	A-2-B	1D	UO2 dispersed in polyethylene as pieces and fines	None	618.00	2.63%	82.28	19.77%	16.27
3	A-3-A	Drilled-A	UO2 dispersed in polyethylene as pieces and fines	None	660.00	2.44%	81.31	19.78%	16.08
3	A-3-B	Drilled-B	UO2 dispersed in polyethylene as pieces and fines	None	701.00	2.44%	86.36	19.78%	17.08
4	A-4-A	Drilled-C	UO2 dispersed in polyethylene as pieces and fines	None	613.00	2.44%	75.52	19.78%	14.94
4	A-4-B	Drilled-D	UO2 dispersed in polyethylene as pieces and fines	None	735.00	2.44%	90.55	19.78%	17.91
5	A-5-A	3-A	UO2 dispersed in polyethylene as pieces and fines	None	770.00	2.44%	94.86	19.78%	18.76
5	A-5-B	3-B	UO2 dispersed in polyethylene as pieces and fines	None	537.00	2.44%	66.16	19.79%	13.09
6	A-6-A	3-C	UO2 dispersed in polyethylene as pieces and fines	None	653.00	2.44%	80.45	19.78%	15.91
6	A-6-B	3-D	UO2 dispersed in polyethylene as pieces and fines	None	843.00	2.44%	103.86	19.78%	20.54
7	A-7-A	4-A	UO2 dispersed in polyethylene as pieces and fines	None	677.00	2.44%	83.41	19.78%	16.50
7	A-7-B	4-B	UO2 dispersed in polyethylene as pieces and fines	None	733.00	2.44%	90.31	19.78%	17.86
8	A-8-A	4-C	UO2 dispersed in polyethylene as pieces and fines	None	686.00	2.44%	85.99	19.78%	17.01
8	A-8-B	4-D	UO2 dispersed in polyethylene as pieces and fines	None	700.00	2.44%	86.24	19.78%	17.06
9	A-9-A	5-A	UO2 dispersed in polyethylene as pieces and fines	None	697.00	2.44%	85.87	19.79%	16.99
9	A-9-B	5-B	UO2 dispersed in polyethylene as pieces and fines	None	687.00	2.44%	84.54	19.78%	16.74
10	A-10-A	5-C	UO2 dispersed in polyethylene as pieces and fines	None	702.00	2.44%	86.49	19.78%	17.11
10	A-10-B	5-D	UO2 dispersed in polyethylene as pieces and fines	None	704.00	2.44%	86.73	19.79%	17.16
Total on this page:					13,738.000		1,718.640		339.940
Total thru Page [1] of Material Data - Part 1 Forms:					13,738.000		1,718.640		339.940

* Attach description of composition (lab analysis) if isotopes of uranium other than U-235 (U-232, U-233, U-234, U-236, or U-238) or elements other than uranium are present; e.g., alloyed metal, radionuclides (other than uranium and daughters in secular equilibrium), impurities, etc.; Provide description of matrix for mixtures.

Material Data - Part 1 Form

MATERIAL DATA - PART 1

Material data applies to the actual item(s) being shipped.

Declaration Number: **ZVS-2019-002**

Material Data - Part 1

Shipping Container Serial/ID Number (from Shipping Container Data - Part 1)	Inner (Primary) Container Serial/ID Number (from Inner Container Data - Part 1, if applicable)	Material Item ID Number	Material Description*	Foreign Obligations (EURATOM etc...)	Net Weight of Material (grams)	Weight % SNM	Grams Uranium	Weight % U-235	Grams U-235
11	A-11-A	6-A	UO2 dispersed in polyethylene as pieces and fines	None	754.00	2.44%	92.89	19.78%	18.37
11	A-11-B	6-B	UO2 dispersed in polyethylene as pieces and fines	None	721.00	2.44%	88.83	19.78%	17.57
12	A-12-A	6-C	UO2 dispersed in polyethylene as pieces and fines	None	703.00	2.44%	86.61	19.78%	17.13
12	A-12-B	6-D	UO2 dispersed in polyethylene as pieces and fines	None	612.00	2.44%	75.40	19.77%	14.91
13	A-13-A	7-A	UO2 dispersed in polyethylene as pieces and fines	None	800.00	2.44%	98.56	19.78%	19.50
13	A-13-B	7-B	UO2 dispersed in polyethylene as pieces and fines	None	594.00	2.44%	73.18	19.79%	14.48
14	A-14-A	9	UO2 dispersed in polyethylene as pieces and fines	None	689.00	2.44%	84.88	19.78%	16.79
14	A-14-B	Spacer Discs	UO2 dispersed in polyethylene as spacer discs	None	179.00	2.44%	22.05	19.77%	4.36
Total on this page:					5,052,000		622,400		123,110
Total thru Page [2] of Material Data - Part 1 Forms:					18,790,000		2,341,040		463,050

* Attach description of composition (lab analysis) if isotopes of uranium other than U-235 (U-232, U-233, U-234, U-236, or U-238) or elements other than uranium are present; e.g., alloyed metal, radionuclides (other than uranium and daughters in secular equilibrium), impurities, etc.; Provide description of matrix for mixtures.
 Material Data - Part 1 Form

MATERIAL DATA - PART 2										
Declaration Number: ZVS-2019-002										
Material Data - Part 2										
Shipping Container Serial/ID Number (Shipping Container Data - Part 1)	Inner (Primary) Container Serial/ID Number (Inner Container Data - Part 1, if applicable)	Material Item ID Number (Material Data - Part 1)	Project Number	Excess (E)/ National Security (NS)/ Surplus(S)	Category of Material (I, II, III, IV)	Attractiveness (A, B, C, D, E)	Beta Readings @ Contact with Material (mrad/hr)	Gamma Exposure @ 1 foot from Material (mR/hr)	Deep Dose (gamma + neutron @ 1 foot from Material) (mrem/hr)	Irradiated (Y/N)
1	A-1-A	1A			IV	E	4.8	<0.1	<0.1	N
1	A-1-B	1B			IV	E	3.4	<0.1	<0.1	N
2	A-2-A	1C			IV	E	4	<0.1	<0.1	N
2	A-2-B	1D			IV	E	4.4	<0.1	<0.1	N
3	A-3-A	Drillec-A			IV	E	2.8	<0.1	<0.1	N
3	A-3-B	Drillec-B			IV	E	3.2	<0.1	<0.1	N
4	A-4-A	Drillec-C			IV	E	3.5	<0.1	<0.1	N
4	A-4-B	Drillec-D			IV	E	2.2	<0.1	<0.1	N
5	A-5-A	3-A			IV	E	4.6	<0.1	<0.1	N
5	A-5-B	3-B			IV	E	3.2	<0.1	<0.1	N
6	A-6-A	3-C			IV	E	3	<0.1	<0.1	N
6	A-6-B	3-D			IV	E	3.6	<0.1	<0.1	N
7	A-7-A	4-A			IV	E	2.6	<0.1	<0.1	N
7	A-7-B	4-B			IV	E	3	<0.1	<0.1	N
8	A-8-A	4-C			IV	E	4.2	<0.1	<0.1	N
8	A-8-B	4-D			IV	E	4.4	<0.1	<0.1	N
9	A-9-A	5-A			IV	E	3.6	<0.1	<0.1	N
9	A-9-B	5-B			IV	E	2.2	<0.1	<0.1	N
10	A-10-A	5-C			IV	E	2.2	<0.1	<0.1	N
10	A-10-B	5-D			IV	E	3.8	<0.1	<0.1	N

Material Data - Part 2 Form

MATERIAL DATA - PART 2

Declaration Number: ZVS-2019-002

Material Data - Part 2

Shipping Container Serial/ID Number (Shipping Container Data - Part 1)	Inner (Primary) Container Serial/ID Number (Inner Container Data - Part 1, if applicable)	Material Item ID Number (Material Data - Part 1)	Project Number	Excess (E)/ National Security (NS)/ Surplus(S)	Category of Material (I, II, III, IV)	Attractiveness (A, B, C, D, E)	Beta Readings @ Contact with Material (mrad/hr)	Gamma Exposure @ 1 foot from Material (mR/hr)	Deep Dose (gamma + neutron @ 1 foot from Material) (mrem/hr)	Irradiated (Y/N)
11	A-11-A	6-A			IV	E	3.4	<0.1	<0.1	N
11	A-11-B	6-B			IV	E	2.4	<0.1	<0.1	N
12	A-12-A	6-C			IV	E	3.4	<0.1	<0.1	N
12	A-12-B	6-D			IV	E	4.3	<0.1	<0.1	N
13	A-13-A	7-A			IV	E	4	<0.1	<0.1	N
13	A-13-B	7-B			IV	E	3.4	<0.1	<0.1	N
14	A-14-A	9			IV	E	4	<0.1	<0.1	N
14	A-14-B	Spacer Discs			IV	E	2.8	<0.1	<0.1	N

Material Data - Part 2 Form

IRRADIATION QUESTIONNAIRE AND
CONCURRENCE STATEMENT

Declaration Number: ZVS-2019-002

Has the material in the Declaration been subjected to irradiation in a nuclear reactor or accelerator?

No Go to Section I

Yes Go to Section II

SECTION I

I concur that the material described in this declaration is not irradiated and has no known contaminants resulting in discrete quantities of fission products or transuranic elements.

Shipping Site Representative Printed Name: Tracy Tipping

Shipping Site Representative Signature: X

Date: _____

SECTION II

If the material is irradiated or slightly irradiated, please complete the following questions.

When was the material **first** irradiated or made critical or subcritical? 1959
How long did the material remain in this condition? <3000 hrs
When was it **last** irradiated or made critical or subcritical? approximately 1969
How long did the material remain in this condition? 50 years
What was the neutron flux to which the material in question was subjected? 4.37×10^4 fiss/sec (PuBe source)
For how long? intermittent for 10 years (<3000 hrs)

For **solids**, what is the removable, alpha surface activity in dpm/100 cm² for each item:

- a. attributed to transuranics (e.g., neptunium, plutonium, americium) see below
b. attributed to uranium see below

What is the alpha activity in curies per gram or multiples thereof for each alpha-emitting radionuclide? (Uranium alpha activity may be combined to yield a total uranium value with the exception of U-232 and U-233. Values for U-232 or U-233 should be included separately.)

137 dpm/100 cm² smear of disc surface

What is the beta activity in curies per gram or multiples thereof for each beta emitting radionuclide? (Uranium daughter beta activity may be combined to yield a total uranium value.)

82 dpm/100 cm² smear of disc surface

What is the gamma activity in curies per gram or multiples thereof for each gamma emitting radionuclide?

What is the source of information/documentation for compiling your responses to the questions on this form?

I concur that the information provided above regarding irradiated or slightly irradiated material is correct.

Shipping Site Representative Printed Name: Tracy Tipping

Shipping Site Representative Signature: 

Date: _____

Digitally signed by 3270 client
DN: c=US, st=Texas, o=The University of Texas at
Austin, ou=Information Technology Services,
cn=3270 client
Date: 2019.11.14 07:22:40 -0600

Irradiation Questionnaire and Concurrence Form

Y- 12 NATIONAL SECURITY COMPLEX
NON-RCRA CERTIFICATION STATEMENT

"We certify according to process knowledge or through analytical determination that the contents of the containers described in Declaration Request ZVS-2019-002 do not contain Resource Conservation and Recovery Act (RCRA) Hazardous Waste as identified in 40 CFR 261.3."

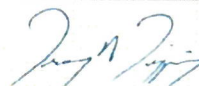
Shipping Site Name:

Austin, TX / ZVS

Shipping Site Representative Printed Name:

Tracy Tipping

Shipping Site Representative Signature:



Digitally signed by 3270 client
DN: c=US, st=Texas, o=The University of
Texas at Austin, ou=Information Technology
Services, cn=3270 client
Date: 2019.11.14 07:23:06 -06'00'

Date of Signature:

Non-RCRA Certification Statement Form