

50-27



Washington State University

Nuclear Radiation Center

P O Box 641300
Pullman, WA 99164-1300
509-335-8641
FAX 509-335-4433

October 19, 1998

Non-Power Reactors and Decommissioning Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

Dear Sir:

Enclosed for your information are copies of the Material Status Reports for Facility License R-76 recently submitted to the INA NMMSS Program in Norcross, GA.

Sincerely,

A handwritten signature in cursive script, appearing to read 'G.E. Tripard'.

G.E. Tripard
Director

GET/pw

Enclosures

1/1

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9810270110 981019
PDR ADOCK 05000027
P PDR

U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB
1910-0900
APPROVED BY OMB
3150-0058
Expires 5-31-88

PHYSICAL INVENTORY LISTING

1. NAME Nuclear Radiation Center			2. DOE/NRC FORM 740M ATTACHED		4. REPORTING IDENTIFICATION SYMBOL (RIS)	
STREET ADDRESS			<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		ZXU	
Washington State University			3. INVENTORY DATE		5. LICENSE NUMBER(S)	
CITY	STATE	ZIP CODE	9/30/98		R-76 and WN-C003-1	
Pullman	WA	99164-1300				

6. BATCH DATA

[illegible]

To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.

8. SIGNATURE (See instructions for provisions regarding confidentiality.)

9. TITLE

10. DATE

G.E. Tripard

Director

10/19/98

18 U.S.C. SECTION 1001; ACT OF JUNE 25, 1948; 62 STAT. 749; MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTERS WITHIN ITS JURISDICTION.

PHYSICAL INVENTORY LISTING

APPROVED BY OMB
1910-0900
APPROVED BY OMB
3150-0058
Expires 6-31-88

1. NAME Nuclear Radiation Center			2. DOE/NRC FORM 740M ATTACHED		4. REPORTING IDENTIFICATION SYMBOL (RIS):	
STREET ADDRESS			<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		ZXU	
Washington State University			3. INVENTORY DATE		5. LICENSE NUMBER(S)	
CITY	STATE	ZIP CODE	9/30/98		R-76 and WN-C003-1	
Pullman	WA	99164-1300				

[illegible]

8. SIGNATURE (See instructions for provisions regarding confidentiality.)

G.E. Tripard

H. T. ripard

9. TITLE

Director

10. DATE

10/19/98

U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION

PHYSICAL INVENTORY LISTING

APPROVED BY OMB
1910-0900
APPROVED BY OMB
3150-0058
Expires 5-31-88

1. NAME Nuclear Radiation Center STREET ADDRESS Washington State University CITY Pullman			2. DOE/NRC FORM 740M ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		4. REPORTING IDENTIFICATION SYMBOL (RIS) ZXU	
STATE WA			3. INVENTORY DATE 9/30/98		5. LICENSE NUMBER(S) R-76 and WN-C003-1	
ZIP CODE 99164-1300						

6. BATCH DATA

[illegible]

To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.

8. SIGNATURE (See instructions for provisions regarding confidentiality.)

G.E. Tripard

LR Ripard

9. TITLE

Director

10. DATE

10/19/98

U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION

PHYSICAL INVENTORY LISTING

APPROVED BY OMB
1910-0900
APPROVED BY OMB
3150-0068
Expires 5-31-88

1. NAME Nuclear Radiation Center			2. DOE/NRC FORM 740M ATTACHED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		4. REPORTING IDENTIFICATION SYMBOL (RIS) ZXU	
STREET ADDRESS Washington State University			3. INVENTORY DATE 9/30/98		5. LICENSE NUMBER(S) R-76 and WN-C003-1	
CITY Pullman		STATE WA	ZIP CODE 99164-1300			

6. BATCH DATA

[illegible]

To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.

8. SIGNATURE (See instructions for provisions regarding confidentiality.)

9. TITLE

10. DATE	
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G.E. Tripard

Director

10/19/98

U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION
MATERIAL BALANCE REPORT

Approved by OMB
038-0479
Approved by OMB
3150-0004
Expires 5-31-88

1 NAME AND ADDRESS Nuclear Radiation Center Washington State University Pullman, WA 99164-1300		2 LICENSE NUMBER(S) R-76 and WN-C003-1		3 REPORTING IDENTIFICATION SYMBOL (RIS) ZXU	
4 REPORT PERIOD FROM 4/1/98 TO 9/30/98		5 MATERIAL TYPE (Submit separate report for each type) E2			
SECTION A MATERIAL ACCOUNTABILITY					
7 DOE/NRC 740M ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO		A. ELEMENT WEIGHT		B. ISOTOPE WEIGHT	
8 BEGINNING INVENTORY - DOE OWNED		23,458		4,189	
9 BEGINNING INVENTORY - NOT DOE OWNED					
11 PROCUREMENT FROM DOE		RECEIPTS			
FROM		RIS			
13. PROCUREMENT - FOR THE ACCOUNT OF DOE					
14. DOE RETURNS - USE A					
15. DOE RETURNS - USE B					
16. DOE RETURNS - OTHER USES					
21 PRODUCTION					
22 FROM OTHER MATERIALS		a. ICT			
		b. ICT			
		c. ICT			
30 RECEIPTS REPORTED TO DOE/NRC ON DOE/NRC FORM 741 (Not listed elsewhere)					
FROM		RIS			
36 DONATED MATERIAL - FROM DOE TO OTHERS					
39 DONATED MATERIAL - FROM OTHERS TO DOE					
40 TOTAL (Lines 8-39)		23,458		4,189	
41. EXPENSED IN SPACE PROGRAMS		REMOVALS			
42 SALES TO DOE RIS TO		RIS			
TO					
43 SALES TO OTHERS FOR THE ACCOUNT OF DOE		RIS			
TO					
44. DOE - USE A					
45. DOE - USE B					
46. DOE - OTHER USES					
47. EXPENSED IN DOE TESTS					
48. ROUTINE TESTS					
49. SHIPMENTS - RECOVERED DIFFERENCE					
51 SHIPMENTS REPORTED TO NRC/DOE ON DOE/NRC FORM 741 (Not listed elsewhere)					
TO		RIS			
56 DONATED MATERIAL - TO DOE BY OTHERS					
59 DONATED MATERIAL - TO OTHERS BY DOE					
71 DEGRADATION TO OTHER MATERIALS		a. ICT			
		b. ICT			
72 DECAY					
73 FISSION AND TRANSMUTATION					
74 NORMAL OPERATIONAL LOSSES MEASURED DISCARDS		6		7	
75 ACCIDENTAL LOSSES					
76 APPROVED WRITE-OFFS					
77 INVENTORY DIFFERENCE					
80 ENDING INVENTORY - DOE OWNED		23,452		4,182	
81 ENDING INVENTORY - NOT DOE OWNED					
82 TOTAL (Lines 81-81)		23,458		4,189	
83 BIAS ADJUSTMENT					
SECTION B COUNTRY CONTROL NUMBER DATA					
1 COUNTRY CONTROL NUMBER		2 ELEMENT WEIGHT		3 ISOTOPE WEIGHT	
US US 00 00		23,452		4,182	
4 TOTAL WEIGHT (Total must agree with total on line 80 or 81 or both)		23,452		4,182	
SECTION C CERTIFICATION					
To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.					
SIGNATURE (See instructions for signatures on Confidentiality)		TITLE		DATE	
G.E. Irigoin		Director		10/19/98	
18 U.S.C. SECTION 1001, ACT OF JUNE 25, 1948, STAT. 748, MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTERS WITHIN ITS JURISDICTION.					
NRC DOE FORM 742 (12-81) (Previous editions are obsolete)					

U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION
MATERIAL BALANCE REPORT

Approved by OMB
038-0479
Approved by OMB
3150-0004
Expires 5-31-88

1 NAME AND ADDRESS		2 LICENSE NUMBER(S)		3 REPORTING IDENTIFICATION SYMBOL (RIS)	
Nuclear Radiation Center Washington State University Pullman, WA 99164-1305		R-76 and WN-C003-1		ZXU	
		4 REPORT PERIOD		5 MATERIAL TYPE (Submit separate report for each type)	
		FROM 4/1/98 TO 9/30/98		E3	
SECTION A MATERIAL ACCOUNTABILITY					
7 DOE/NRC 740M ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO		A. ELEMENT WEIGHT		B. ISOTOPE WEIGHT	
8 BEGINNING INVENTORY - DOE OWNED		13.259		9.079	
9 BEGINNING INVENTORY - NOT DOE OWNED					
11 PROCUREMENT FROM DOE		RECEIPTS			
FROM		RIS			
12 PROCUREMENT - FOR THE ACCOUNT OF DOE					
14 DOE RETURNS - USE A					
15 DOE RETURNS - USE B					
16 DOE RETURNS - OTHER USES					
21 PRODUCTION					
22 FROM OTHER MATERIALS		a. ICT			
		b. ICT			
		c. ICT			
30 RECEIPTS REPORTED TO DOE/NRC ON DOE/NRC FORM 741 (Not listed elsewhere)					
FROM		RIS			
36 DONATED MATERIAL - FROM DOE TO OTHERS					
38 DONATED MATERIAL - FROM OTHERS TO DOE					
40 TOTAL (Lines 8-39)		13.259		9.079	
41 EXPENDED IN SPACE PROGRAMS		REMOVALS			
42 SALES TO DOE RIS TO		RIS			
TO					
43 SALES TO OTHERS FOR THE ACCOUNT OF DOE		RIS			
TO					
44 DOE - USE A					
45 DOE - USE B					
46 DOE - OTHER USES					
47 EXPENDED IN DOE TESTS					
48 ROUTINE TESTS					
49 SHIPPER - INVENTORY DIFFERENCE					
51 SHIPMENTS REPORTED TO NRC/DOE ON DOE/NRC FORM 741 (Not listed elsewhere)					
TO		RIS			
56 DONATED MATERIAL - TO DOE BY OTHERS					
58 DONATED MATERIAL - TO OTHERS BY DOE					
71 DEGRADATION TO OTHER MATERIALS		a. ICT			
		b. ICT			
72 DECAY					
73 FISSION AND TRANSUTATION		13		16	
74 NORMAL OPERATIONAL LOSSES MEASURED DISCARDS					
75 ACCIDENTAL LOSSES					
76 APPROVED WRITE OFFS					
77 INVENTORY DIFFERENCE					
80 ENDING INVENTORY - DOE OWNED		13.246		9.063	
81 ENDING INVENTORY - NOT DOE OWNED					
82 TOTAL (Lines 41-81)		13.259		9.079	
83 BIAS ADJUSTMENT					
SECTION B COUNTRY CONTROL NUMBER DATA					
1 COUNTRY CONTROL NUMBER		2 ELEMENT WEIGHT		3 ISOTOPE WEIGHT	
US US 00 00		13.246		9.063	
4 TOTAL WEIGHT (Total must agree with total on line 80 or 81 or both)		13.246		9.063	
SECTION C CERTIFICATION					
To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.					
SIGNATURE (See instructions for provisions on confidentiality)		TITLE		DATE	
G.E. Tripard		Director		10/19/98	

U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION
MATERIAL BALANCE REPORTApproved by OMB
038-0479
Approved by OMB
3150-0004
Expires 5-31-98

1. NAME AND ADDRESS Nuclear Radiation Center Washington State University Pullman, WA 99164-1300		2. LICENSE NUMBER(S) R-76 and WN-C003-1		3. REPORTING IDENTIFICATION SYMBOL (RIS) ZXU	
4. REPORT PERIOD FROM 4/1/98 TO 9/30/98		5. MATERIAL TYPE (Submit separate report for each type) 50			
SECTION A MATERIAL ACCOUNTABILITY					
7. DOE/NRC 740M ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO		A. ELEMENT WEIGHT		B. ISOTOPE WEIGHT	
8. BEGINNING INVENTORY - DOE OWNED		36		33	
9. BEGINNING INVENTORY - NOT DOE OWNED					
11. PROCUREMENT FROM DOE FROM RIS					
13. PROCUREMENT - FOR THE ACCOUNT OF DOE					
14. DOE RETURNS - USE A					
15. DOE RETURNS - USE B					
16. DOE RETURNS - OTHER USES					
21. PRODUCTION					
22. FROM OTHER MATERIALS a. ICT b. ICT c. ICT					
30. RECEIPTS REPORTED TO DOE/NRC ON DOE/NRC FORM 741 (Not listed elsewhere) FROM RIS					
35. DONATED MATERIAL - FROM DOE TO OTHERS					
36. DONATED MATERIAL - FROM OTHERS TO DOE					
40. TOTAL (Lines 8-39)		38		34	
41. EXPENSED IN SPACE PROGRAMS		REMOVALS			
42. SALES TO DOE RIS TO TO		RIS			
43. SALES TO OTHERS FOR THE ACCOUNT OF DOE TO		RIS			
44. DOE - USE A					
45. DOE - USE B					
46. DOE - OTHER USES					
47. EXPENSED TO DOE TESTS					
48. EXPENSED TESTS					
49. OTHER - RECOVER EXPENSE					
51. SHIPMENTS REPORTED TO NRC DOE ON DOE/NRC FORM 741 (Not listed elsewhere) TO RIS					
56. DONATED MATERIAL - TO DOE BY OTHERS					
58. DONATED MATERIAL - TO OTHERS BY DOE					
71. DEGRADATION TO OTHER MATERIALS a. ICT b. ICT					
72. DECAY					
73. FISSION AND TRANSMUTATION					
74. NORMAL OPERATIONAL LOSSES MEASURED DISCARDS					
75. ACCIDENTAL LOSSES					
76. APPROVED WRITE-OFFS					
77. INVENTORY DIFFERENCE					
80. ENDING INVENTORY - DOE OWNED		38		34	
81. ENDING INVENTORY - NOT DOE OWNED					
82. TOTAL (Lines 81-87)		38		34	
83. BIAS ADJUSTMENT					
SECTION B COUNTRY CONTROL NUMBER DATA					
1. COUNTRY CONTROL NUMBER 05 05 00 00		2. ELEMENT WEIGHT 38		3. ISOTOPE WEIGHT 34	
4. TOTAL WEIGHT (Total must agree with total on line 80 or 81 or both)		38		34	
SECTION C CERTIFICATION					
To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.					
SIGNATURE (See instructions for preparation of confidentiality) G.E. Tripard		TITLE Director		DATE 10/19/98	

U.S. DEPARTMENT OF ENERGY
AND
U.S. NUCLEAR REGULATORY COMMISSION
MATERIAL BALANCE REPORTApproved by OMB
038-0475
Approved by OMB
3150-0004
Expires 5-31-88

1 NAME AND ADDRESS Nuclear Radiation Center Washington State University Pullman, WA 99164-1300		2 LICENSE NUMBER(S) R-76 and WN-C003-1		3 REPORTING IDENTIFICATION SYMBOL (RIS) ZXU	
4 REPORT PERIOD FROM 4/1/98 TO 9/30/98		5 MATERIAL TYPE (Submit separate report for each type) E4			
SECTION A MATERIAL ACCOUNTABILITY					
7 DOE/NRC 740M ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO		A ELEMENT WEIGHT		B ISOTOPE WEIGHT	
8 BEGINNING INVENTORY - DOE OWNED		4		4	
9 BEGINNING INVENTORY - NOT DOE OWNED					
11 PROCUREMENT FROM DOE		RECEIPTS			
FROM		RIS			
13 PROCUREMENT - FOR THE ACCOUNT OF DOE					
14 DOE RETURNS - USE A					
15 DOE RETURNS - USE B					
16 DOE RETURNS - OTHER USES					
21 PRODUCTION					
22 FROM OTHER MATERIALS		a ICT			
		b ICT			
		c ICT			
30 RECEIPTS REPORTED TO DOE/NRC ON DOE/NRC FORM 741 (Not listed elsewhere)					
FROM		RIS			
36 DONATED MATERIAL - FROM DOE TO OTHERS					
39 DONATED MATERIAL - FROM OTHERS TO DOE					
40 TOTAL (Lines 8-39)		4		4	
41 EXPENSED IN SPACE PROGRAMS		REMOVALS			
42 SALES TO DOE RIS TO		RIS			
TO					
43 SALES TO OTHERS FOR THE ACCOUNT OF DOE		RIS			
TO					
44 DOE - USE A					
45 DOE - USE B					
46 DOE - OTHER USES					
47 EXPENSED IN DOE TESTS					
48 FUTURE TESTS					
49 SHIPMENTS - RECEIVED DIFFERENCE					
51 SHIPMENTS REPORTED TO NRC DOE ON DOE/NRC FORM 741 (Not listed elsewhere)					
TO		RIS			
56 DONATED MATERIAL - TO DOE BY OTHERS					
59 DONATED MATERIAL - TO OTHERS BY DOE					
71 DEGRADATION TO OTHER MATERIALS		a ICT			
		b ICT			
72 DECAY					
73 FISSION AND TRANSMUTATION					
74 NORMAL OPERATIONAL LOSSES MEASURED DISCARDS					
75 ACCIDENTAL LOSSES					
76 APPROVED WRITE OFFS					
77 INVENTORY DIFFERENCE					
80 ENDING INVENTORY - DOE OWNED					
81 ENDING INVENTORY - NOT DOE OWNED		4		4	
82 TOTAL (Lines 41-81)		4		4	
83 BIAS ADJUSTMENT					
SECTION B COUNTRY CONTROL NUMBER DATA					
1 COUNTRY CONTROL NUMBER		2 ELEMENT WEIGHT		3 ISOTOPE WEIGHT	
US US 00 00		4		4	
4 TOTAL WEIGHT (Total must agree with total on line 82 or 81 or both)		4		4	
SECTION C CERTIFICATION					
To the best of my knowledge and belief, the information given above and in any attached schedules is true, complete, and correct.					
SIGNATURE (See instructions for preparation on confidentiality) G.E. Tripard		TITLE Director		DATE 10/19/98	

DOE/NRC FORM 741

(7-88) Previous editions are obsolete.

MANDATORY DATA COLLECTION
AUTHORIZED BY 10 CFR 30, 50, 55, 70,
75, 150, Public Laws 83-703, 93-438, 95-91U.S. DEPARTMENT OF ENERGY AND U.S. NUCLEAR REGULATORY COMMISSION
NUCLEAR MATERIAL TRANSACTION REPORTApproved by OMB
038-R0478
Approved by GAO
B-180225 (R0040)
Expires 6-30-83

1. SHIPPER'S RIS (1-4)	2. RECEIVER'S RIS (1-4)	3. TRANSACTION NO. (5-14)	4. CORRECTION NO. (15)	5. PROCESSING CODE (16)	6. RESERVED (17)	7. ACTION CODE (18)	8. DATA CODE (19)	DOCUMENTATION (Only if document is classified SECRET)	
ZXU	ZXU	37		SHIPPER	RECEIVER	SHIPPER M	RECEIVER M	PAGE 1 OF 1 PAGES	COPY OF COPIES SERIES
9. A. NAME AND ADDRESS OF SHIPPER Nuclear Radiation Center Washington State University Pullman, WA 99164-1300 C. ATTENTION: Gerald E. Tripard D. TELEPHONE (509) 335-0172		B. LICENSE NO. R-76		10. A. NAME AND ADDRESS OF RECEIVER Same as 9 C. ATTENTION: D. TELEPHONE:		11. NO. OF DATA LINES (1:20-21) 13. A. SHIPPED FOR ACCOUNT OF Same as 9		12. NATURE OF TRANSACTION (1:22) 14. A. SHIPPED TO ACCOUNT OF Same as 9	
15. TRANSFER AUTHORITY - CONTRACT, NM DRAFT, OR ORDER NUMBER (1:24-50)				16. EXPORT OR IMPORT TRANSFERS: A. LICENSE NO. (3:22-31) B. U.S. PORT EXIT/ENTRY (3:32-35)				17. MATERIAL TYPE AND DESCRIPTION	
21. A. MISCELLANEOUS				B. Concise Note Attached Yes <input type="checkbox"/> No <input type="checkbox"/> C. Concise Note Attached Yes <input type="checkbox"/> No <input type="checkbox"/>				18. TRANSPORTATION PROFILE A. TRIP SEC. B. CARRIER IDENTIFICATION C. TRANSFER POINT D. MODEL ID E. NUMBER 1. 3:36-38 3:40-44 4:22-25 4:26-28 2. 3:45-48 3:49-53 4:29-32 4:33-35 3. 3:54-57 3:58-62 4:36-39 4:40-42 4. 3:63-66 3:67-71 4:43-46 4:47-49 5. 3:72-75 4:50-53 4:54-56 22. TOTAL GROSS WEIGHT (4:57-66)	
				19. PACKAGE IDENTIFICATION				20. ACTION DATE MONTH DAY YEAR 9 30 98	
				23. TOTAL VOLUME (Waste Transfers Only) (4:67-75)					

LINE NO. (20-21)	TYPE OF ONLY CHANGE (2:22-30)	IDENTIFICATION (BATCH NAME) (2:34-38)	NO. OF ITEMS (2:40-43)	PROJECT NUMBER (2:44-53)	MATERIAL TYPE (2:54-58)	COMPL. FACILITY CODE (2:59-60)	PROD. OVERS. CODE (2:61-62)	COUNTRY CONTROL NUMBER (2:63-69)	KEY MEAS. POINT (2:70-71)	MEAS. IDENT. (2:72-74)	GROSS WEIGHT (M) (2:75-76)	NET WEIGHT (N) (2:77-78)	ELEMENT WEIGHT (O) (2:79-80)	ELEMENT LIMIT OF ERROR (2:81-82)	WEIGHT % ISOTOPE (2:83-84)	ISOTOPE WEIGHT (R) (2:85-86)	ISOTOPE LIMIT OF ERROR (2:87-88)		
																		1. BASIS (2:72)	2. UNIT (2:73-74)
1	LN			JAF-40-00-000	20	309	G	US US 00 00					6		18	7			
2	LN			JAF-40-00-000	20	309	G	US US 00 00					13		69	16			
3	LN			JAF-40-00-000	50	309	G	US US 00 00					1		92	1			
24. SHIPPER'S DATA SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED: G.E. Tripard 10/19/98																		25. RECEIVER'S DATA SIGNATURE OF AUTHORIZED OFFICIAL AND DATE SIGNED:	