

John J. Rampe
August 6, 1998
98-RF-04026
Page 2

Radiological Engineer must conduct a Release Evaluation to determine the extent of the survey necessary to release the trailer. The project Radiological Engineer can require a full survey, or none at all. To verify that the procedure has been followed, we check with the Radiological Engineers from T-1 and the Building 123 project. In both cases, the procedure was being followed. The administrative trailer from the 123 project did receive a survey before it was removed from site. A copy of the survey is enclosed. The trailers at T-1 receive periodic surveys and a full survey is to be conducted before they leave the site.

DOE/Government owned equipment also follows the same procedure. Before the equipment/trailer can be moved, the appropriate information must be completed on the transfer paperwork before the shipping personnel will transfer the equipment. This includes the same evaluation and surveys mentioned above and are verified on the paperwork. A copy of HSP 18.10 is enclosed.

New Program

While conducting the investigation, Radiological Protection informed us that starting October 1, 1998, they would be implementing a new procedure that would re-institute the requirement for periodic survey for all buildings on site. The new procedure will require that all buildings will receive a radiological and Industrial Hygiene survey on an annual basis. We intend to work with that department and coordinate their activities to ensure that their data could be used to support the release of Type 1 buildings.

If you have any questions regarding this subject, please call either myself or to Jeff Stevens at extension 5797 or digital pager 212-2285.



Brian W. Mathis
Division Manager
D&D Projects
Kaiser-Hill Company, L.L.C.

JLS:kml

Attachments:
As Stated (3)

Original and 1 cc - J. J. Rampe

TO: Tom Scott X 2093

From R. Simmons X 5396

5 pgs TOTAL

Tom,

Only had surveys for 130 AREA.

RMA in BUDG 460 is for Bertlett
Subcontractor - has not been surveyed by
DCI RCT'S.

Rich

COPY

RS FORMS 07.02-01 & 07.02-02

ROCKY MOUNTAIN ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

MFG. <u>EBERLINE</u>	MFG. _____	MFG. <u>EBERLINE</u>	Survey Type: <u>ALPHA/BETA/GN</u>
MODEL <u>SAC-4</u>	MODEL _____	MODEL <u>BC-4</u>	Building: <u>130</u>
SERIAL # <u>7020</u>	SERIAL # _____	SERIAL # <u>025</u>	Location: <u>LAUNDRY AREA</u>
CAL DUE <u>11/2/99</u>	CAL DUE _____	CAL DUE <u>1/2/98</u>	Purpose: <u>Weekly Contamination</u>
BKG. <u>0.2cpm</u>	BKG. _____	BKG. <u>0.2cpm</u>	RWP # _____
EFFICIENCY <u>33%</u>	EFFICIENCY _____	EFFICIENCY <u>25%</u>	Date: <u>7/29/98</u> Time: <u>0900</u>
MDA <u>20 dpm</u>	MDA _____	MDA <u>200 dpm</u>	RCT: <u>McLain</u> 
MFG. _____	MFG. <u>NE TECH</u>	MFG. <u>NE TECH</u>	Print Name _____ Signature _____
MODEL _____	MODEL <u>ELECTRA</u>	MODEL <u>ELECTRA</u>	RCT: _____
SERIAL # _____	SERIAL # _____	SERIAL # _____	Print Name _____ Signature _____ Emp. # _____
CAL DUE _____	CAL DUE _____	CAL DUE _____	
BKG. _____	BKG. _____	BKG. _____	
EFFICIENCY _____	EFFICIENCY <u>33%</u>	EFFICIENCY <u>17%</u>	
MDA _____	MDA <u>455 dpm</u>	MDA <u>64 dpm</u>	

PRL #: _____
Comments: SURVEY FREQUENCY Weekly

ALPHA		BETA		GAMMA	NEUTRON	TOTAL	AREA POSTED Y/N
DPM/100CM ²	REMOVABLE	DPM/100CM ²	REMOVABLE				
1	<u>120</u>	1	<u>1200</u>	1	_____	1	_____
2	<u>120</u>	2	<u>1200</u>	2	_____	2	_____
3	<u>120</u>	3	<u>1200</u>	3	_____	3	_____
4	<u>120</u>	4	<u>1200</u>	4	_____	4	_____
5	<u>120</u>	5	<u>1200</u>	5	_____	5	_____
6	<u>120</u>	6	<u>1200</u>	6	_____	6	_____
7	<u>120</u>	7	<u>1200</u>	7	_____	7	_____
8	<u>120</u>	8	<u>1200</u>	8	_____	8	_____
9	<u>120</u>	9	<u>1200</u>	9	_____	9	_____
10	<u>120</u>	10	<u>1200</u>	10	_____	10	_____
11	<u>120</u>	11	<u>1200</u>	11	_____	11	_____
12	<u>120</u>	12	<u>1200</u>	12	_____	12	_____
13	<u>120</u>	13	<u>1200</u>	13	_____	13	_____
14	<u>120</u>	14	<u>1200</u>	14	_____	14	_____
15	<u>120</u>	15	<u>1200</u>	15	_____	15	_____
16	<u>120</u>	16	<u>1200</u>	16	_____	16	_____
17	<u>120</u>	17	<u>1200</u>	17	_____	17	_____
18	<u>120</u>	18	<u>1200</u>	18	_____	18	_____
19	<u>120</u>	19	<u>1200</u>	19	_____	19	_____
20	<u>120</u>	20	<u>1200</u>	20	_____	20	_____

Date Reviewed: 7-31-98 RS Supervisor: R. Simms 

Print Name _____ Signature _____

**RADIATION PROTECTION
AREA OR EQUIPMENT DRAWING SHOWING SURVEY POINTS**

BLDG. 130 LAUNDRY AREA

DOCK DOOR

1

2

3

4

5

6

7

8

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11

12

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14

15

16

17

18

19

20

COPY

RS FORMS 07.02-01 & 07.02-02

ROCKY MOUNTAINS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

MFG. <u>EBERLINE</u>	MFG. <u>Androm</u>	MFG. <u>EBERLINE</u>
MODEL <u>SAC-4</u>	MODEL <u>12-4</u>	MODEL <u>BC-4</u>
SERIAL # _____	SERIAL # <u>27633</u>	SERIAL # _____
CAL DUE _____	CAL DUE <u>11/16/98</u>	CAL DUE _____
BKG. _____ cpm	BKG. <u>21.0</u>	BKG. _____ cpm
EFFICIENCY <u>33%</u>	EFFICIENCY <u>11%</u>	EFFICIENCY <u>25%</u>
MDA <u>20 dpm</u>	MDA <u>21.0</u>	MDA <u>200 dpm</u>

MFG. <u>Eberline</u>	MFG. <u>NETECH</u>	MFG. <u>NETECH</u>
MODEL <u>RD-20</u>	MODEL <u>ELECTRA</u>	MODEL <u>ELECTRA</u>
SERIAL # <u>0127</u>	SERIAL # _____	SERIAL # _____
CAL DUE <u>12/19/98</u>	CAL DUE _____	CAL DUE _____
BKG. <u>21.0</u>	BKG. _____ cpm	BKG. _____ cpm
EFFICIENCY <u>11%</u>	EFFICIENCY <u>33%</u>	EFFICIENCY <u>17%</u>
MDA <u>21.0</u>	MDA <u>495 dpm</u>	MDA <u>94 dpm</u>

Survey Type: **ALPHA/BETA/GN**

Building: 130

Location: LAUNDRY AREA

Purpose: Monthly Gamma Neutron

RWP # _____

Date: 7/29/98 Time: 0930

RCT: McLain Dome 

Print Name Signature

RCT: _____ / _____ / _____

Print Name Signature Emp. #

PRL #: _____

Comments: SURVEY FREQUENCY

ALPHA DPM/100CM ² REMOVEABLE (SWIPE)	BETA DPM/100CM ² REMOVEABLE (SWIPE)	GAMMA <u>Neutron</u>	NEUTRON	TOTAL	AREA POSTED Y/N
1 _____	1 _____	1 <u>21.0</u>	1 <u>21.0</u>	1 <u>42.0</u>	1 <u>Y</u>
2 _____	2 _____	2 <u>21.0</u>	2 <u>21.0</u>	2 <u>42.0</u>	2 <u>Y</u>
3 _____	3 _____	3 <u>21.0</u>	3 <u>21.0</u>	3 <u>42.0</u>	3 <u>Y</u>
4 _____	4 _____	4 <u>21.0</u>	4 <u>21.0</u>	4 <u>42.0</u>	4 <u>Y</u>
5 _____	5 _____	5 <u>21.0</u>	5 <u>21.0</u>	5 <u>42.0</u>	5 <u>Y</u>
6 _____	6 _____	6 <u>21.0</u>	6 <u>21.0</u>	6 <u>42.0</u>	6 <u>Y</u>
7 _____	7 _____	7 <u>21.0</u>	7 <u>21.0</u>	7 <u>42.0</u>	7 <u>Y</u>
8 _____	8 _____	8 <u>21.0</u>	8 <u>21.0</u>	8 <u>42.0</u>	8 <u>Y</u>
9 _____	9 _____	9 <u>21.0</u>	9 <u>21.0</u>	9 <u>42.0</u>	9 <u>Y</u>
10 _____	10 _____	10 <u>21.0</u>	10 <u>21.0</u>	10 <u>42.0</u>	10 <u>Y</u>
11 _____	11 _____	11 <u>21.0</u>	11 <u>21.0</u>	11 <u>42.0</u>	11 <u>Y</u>
12 _____	12 _____	12 <u>21.0</u>	12 <u>21.0</u>	12 <u>42.0</u>	12 <u>Y</u>
13 _____	13 _____	13 <u>21.0</u>	13 <u>21.0</u>	13 <u>42.0</u>	13 <u>Y</u>
14 _____	14 _____	14 <u>21.0</u>	14 <u>21.0</u>	14 <u>42.0</u>	14 <u>Y</u>
15 _____	15 _____	15 <u>21.0</u>	15 <u>21.0</u>	15 <u>42.0</u>	15 <u>Y</u>
16 _____	16 _____	16 <u>21.0</u>	16 <u>21.0</u>	16 <u>42.0</u>	16 <u>Y</u>
17 _____	17 _____	17 <u>21.0</u>	17 <u>21.0</u>	17 <u>42.0</u>	17 <u>Y</u>
18 _____	18 _____	18 <u>21.0</u>	18 <u>21.0</u>	18 <u>42.0</u>	18 <u>Y</u>
19 _____	19 _____	19 <u>21.0</u>	19 <u>21.0</u>	19 <u>42.0</u>	19 <u>Y</u>
20 _____	20 _____	20 <u>21.0</u>	20 <u>21.0</u>	20 <u>42.0</u>	20 <u>Y</u>

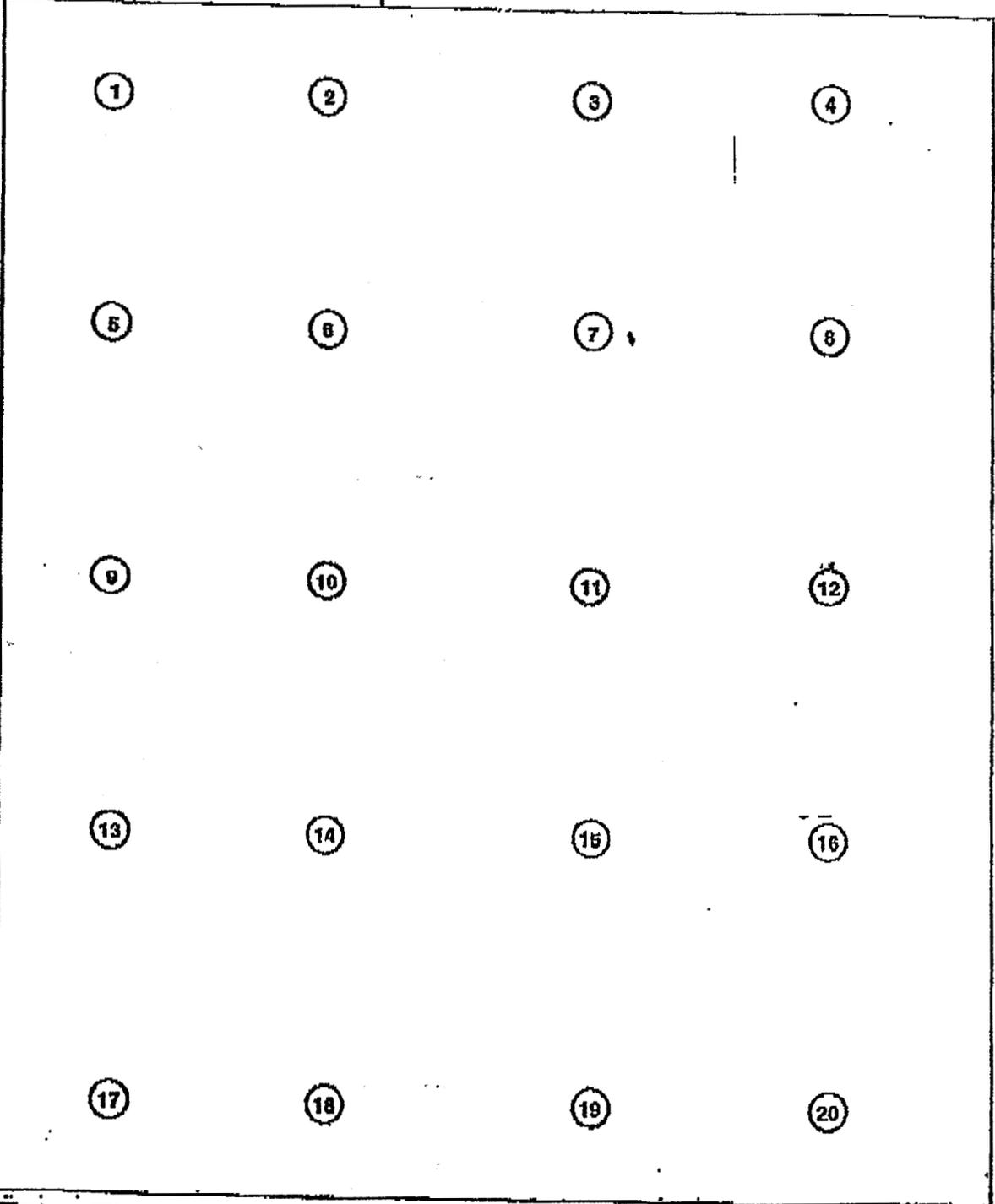
Date Reviewed: 7-31-98 RS Supervision: R. Simon [Signature]

Print Name Signature

**RADIATION PROTECTION
AREA OR EQUIPMENT DRAWING SHOWING SURVEY POINTS**

BLDG. 130 LAUNDRY AREA

DOCK DOOR



PROPERTY/WASTE RELEASE E

Post-It™ brand fax trans Page 1 of 4

P/WRE Number: 980331-123-02

EXTENDED: NO

EXPIRES:

PART I:

Description of Property/Waste To Be Released/Transferred:

SENDER/CUSTODIAN

Mobile Construction Trailer

Property's Current Location:

West side of Building 123

Property's Destination:

GE Capital Modular Space
18151 East 6th Ave. Aurora CO 80011

Property's New Recipient/Custodian:

GE Capital Modular Space

Property History/Process Knowledge:

This trailer was used as the AFIC crew trailer for support of Building 123 asbestos abatement activities. Based on the radiological survey data associated with building 123 and the radiological work practices followed during radiological work activities, it is highly unlikely that DOE controlled radioactive material was introduced into this trailer. However, because this is a rented piece of equipment which supported a work crew that performed a small amount of radiological work, contamination surveys of the trailer interior are being prescribed.

Form 7671	# of pages	4
From	John Miller	
Co.	Rmds RE	
Phone #	2454	
Fax #	6783	

Has the specified property/waste contacted DOE controlled radioactive material or entered an RMMA at RFETS? **No**

ACKNOWLEDGEMENT

By signing below, I certify the information provided in PART I of this P/WRE to be true and accurate and agree to comply with the requirements noted in Part II of this release evaluation.

Sender/Custodian: Al Haynes Emp. No. [redacted] Date: 3/31/98 Ext: 4677 Pager: N/A

PART II:

RADIOLOGICAL ENGINEERING EVALUATION

Radiological Survey Requirements:

See comments below.

Specific Requirements and/or Comments:

Radiological surveys are not required based on the history of this property, however, because this property is being returned to an off site vendor, the following surveys are prescribed. The Radiological Control Technician (RCT) shall perform a representative survey of interior of the trailer for unrestricted release as per ROI 3.02.

The RCT shall provide a copy of the completed Survey Form to the Sender / Custodian. The Sender / Custodian will return the completed surveys and P/WRE to Radiological Engineering for final approval.

Evaluated: John J. Miller Emp. No. [redacted] Date: 3-31-98 Ext.: 2454 Pager: 7981
John J. Miller \ Radiological Engineer

APPROVAL FOR TRANSFER / SHIPMENT

The waste/property specified above is being provided with an unrestricted release from radiological controls and may be transferred to the destination indicated in Part I of this release evaluation.

Approved: [Signature] Emp. No. [redacted] Date: 4-1-98 Ext.: 2454 Pager: 7981
Radiological Engineer

RADIOLOGICAL CONTAMINATION & for DOSE SURVEY FORM (A, B, γ, π)

SURVEY LOG# 980331-123-02 (PRE#)

P/WRE ROUTINE RAD. MTL TRANSFER

R.W.P. OTHER UNRESTRICTED RELEASE

BUILDING/LOCATION: ROOM: All (Interior)

Construction Trailer

Date 4/1/98 TIME: 1000

Mfg: Eberline Eberline Eberline

Model: SAC-4 SAC-4 SAC-4

Serial #: 1199

Date Calib'd: 2/12/98

Cal Due Date: 8/12/98

Mfg: Eberline Eberline Eberline

Model: BC-4 BC-4 BC-4

Serial #: 694

Date Calib'd: 12/23/97

Cal Due Date: 6/23/98

Representative Survey for Off-Site Release, as per ROI 3.02.

COPY

Mfg: NE Electra NE Electra

Model: DP-6 DP-6

Serial #: 1255

Date Calib'd: 10/16/97

Cal Due Date: 4/16/98

Background: $\alpha = 2.0$ $\beta = 586$

Efficiency: $\alpha = 23.7\%$ $\beta = 94.5\%$

Mfg: Ludlum Eberline

Model: 12-4 RO-20

Serial #:

Date Calib'd:

Cal Due Date:

Background:

See attached PRE#980331-123-02.

Printed Name: R.J. BAHL / R.D. ADKINS E

Signature: *R. J. Bahl* Date: 4-1-98

Printed Name: *K. Conlon* Emp.#

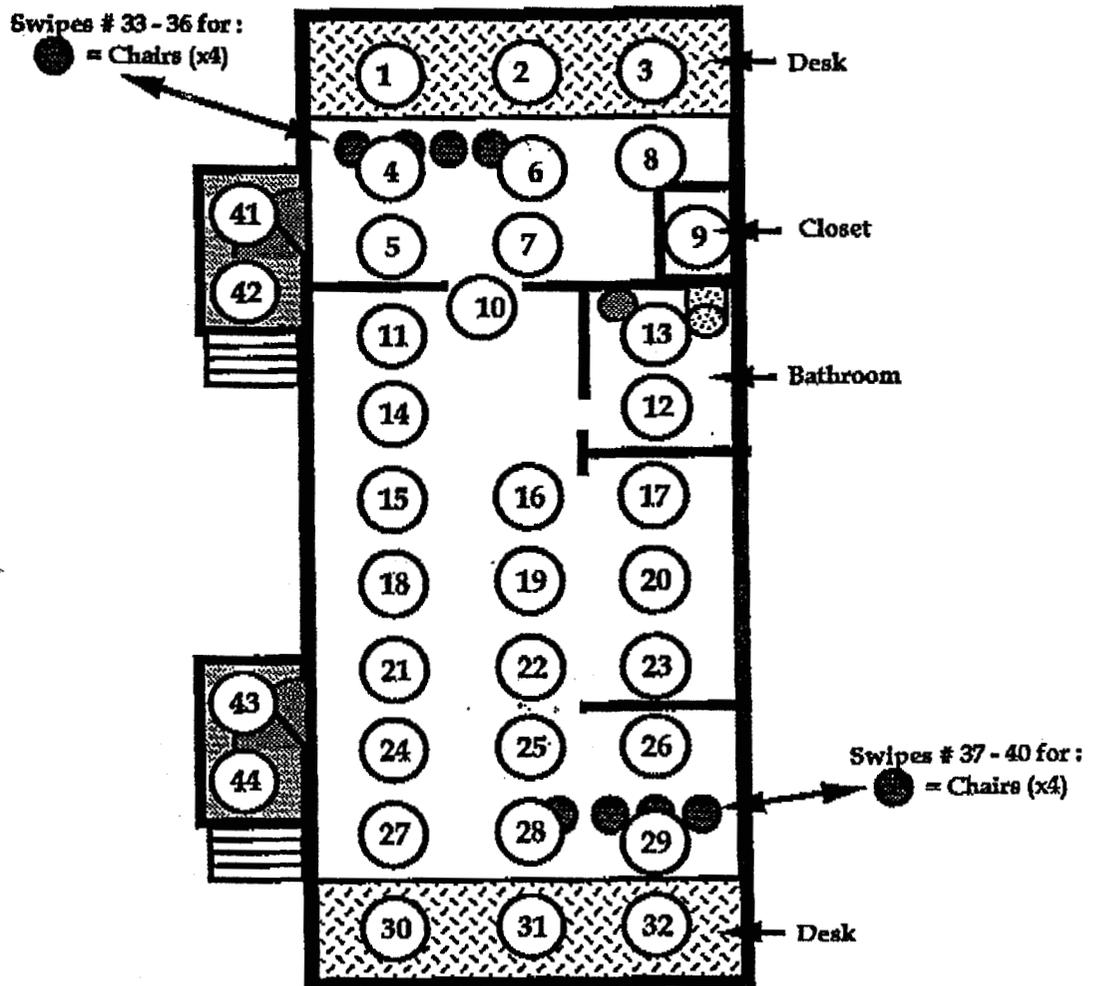
Signature: *R. E. Adkins* Date: 4/1/98

RADIOLOGICAL SURVEY FORM

Survey/Log# 980331-123-02

Survey Point #	Location/description	Results in counts per minute (cpm)				Survey Point #	Location/description	Results in counts per minute (cpm)			
		Removeable 80s counts		Total 80s counts				Removeable 80s counts		Total 80s counts	
		α	βγ	α	βγ			α	βγ	α	βγ
1	See Sketch	<20	<200	<93.3	<455	32	See Sketch	<20	<200	<93.3	<455
2	See Sketch	<20	<200	<93.3	<455	33	See Sketch	<20	<200	<93.3	<455
3	See Sketch	<20	<200	<93.3	<455	34	See Sketch	<20	<200	<93.3	<455
4	See Sketch	<20	<200	<93.3	<455	35	See Sketch	<20	<200	<93.3	<455
5	See Sketch	<20	<200	<93.3	<455	36	See Sketch	<20	<200	<93.3	<455
6	See Sketch	<20	<200	<93.3	<455	37	See Sketch	<20	<200	<93.3	<455
7	See Sketch	<20	<200	<93.3	<455	38	See Sketch	<20	<200	<93.3	<455
8	See Sketch	<20	<200	<93.3	<455	39	See Sketch	<20	<200	<93.3	<455
9	See Sketch	<20	<200	<93.3	<455	40	See Sketch	<20	<200	<93.3	<455
10	See Sketch	<20	<200	<93.3	<455	41	See Sketch	<20	<200	<93.3	<455
11	See Sketch	<20	<200	<93.3	<455	42	See Sketch	<20	<200	<93.3	<455
12	See Sketch	<20	<200	<93.3	<455	43	See Sketch	<20	<200	<93.3	<455
13	See Sketch	<20	<200	<93.3	<455	44	See Sketch	<20	<200	<93.3	<455
14	See Sketch	<20	<200	<93.3	<455	45					
15	See Sketch	<20	<200	<93.3	<455	46					
16	See Sketch	<20	<200	<93.3	<455	47					
17	See Sketch	<20	<200	<93.3	<455	48					
18	See Sketch	<20	<200	<93.3	<455	49					
19	See Sketch	<20	<200	<93.3	<455	50					
20	See Sketch	<20	<200	<93.3	<455	51					
21	See Sketch	<20	<200	<93.3	<455	52					
22	See Sketch	<20	<200	<93.3	<455	53					
23	See Sketch	<20	<200	<93.3	<455	54					
24	See Sketch	<20	<200	<93.3	<455	55					
25	See Sketch	<20	<200	<93.3	<455	56					
26	See Sketch	<20	<200	<93.3	<455	57					
27	See Sketch	<20	<200	<93.3	<455	58					
28	See Sketch	<20	<200	<93.3	<455	59					
29	See Sketch	<20	<200	<93.3	<455	60					
30	See Sketch	<20	<200	<93.3	<455	61					
31	See Sketch	<20	<200	<93.3	<455	62					

Construction Trailer



Document Modification Request

Print or Type all information (except signatures). Process procedures in accordance with 1-A01-PROC DEV-400, Procedure Process

25. DMR No.
96-DMR-000726

Originator

1. Name/Phone/Pager/Location R. M. Richards/5148/5886/T690B			2. Date April 15, 1996
3. Existing Document Number and Revision 1-P73-HSP-18.10 Revision 0			4. Document Type: <input checked="" type="checkbox"/> Procedure <input type="checkbox"/> Plan <input type="checkbox"/> Other
5. Document Title Radioactive Material Transfer and Unrestricted Release of Property and Waste			
6. Item	7. Page	8. Step	9. Proposed Modification
1	Global	Global	Change Radioactive Material Transfer Tag Identification Number to RFP-5822.03 (perform global correction)
2	13	6.2 [2]	Change 6.2 [2] as follows: IF the transfer origination location is not a Radiological Buffer Area, Contamination Area, High Contamination Area, Fixed Contamination Area, Underground Radioactive Material Area, Soil Contamination Area, Airborne Radioactive Area, Radiation Area, High Radiation Area or Very High Radiation Area, AND the final destination is onsite, as defined in Section 3.1,
10. Item			
10a. Justification (reason for modification, EJO #, TP #, etc.)			
1. Editorial correction tag id number changed.			
2. List in Appendix 6 is not inclusive - this change covers the site, besides building/structures, it covers AREAS. Added/change to clarify areas/locations based on RCM requirements			

Originator's Supervisor

11. Process (print/sign/date) B.P. Casey 4/17/96
 Do not Process (state reason in Block 10a)

12. Process (Complete Blocks 13-22) (print/sign/date) M. L. Littleton 4/18/96
 Do not Process (state reason in Block 10a) Michael Littleton
 13. New Document/Rev. No. (if new or changed) N/A

Complete either Section 14a or 14b as applicable. For procedures, attach completed Procedure Modification Worksheet from 1-A01-PROC DEV-400.

14a. Type of Complete Modification: 4/24/96
 New Revision One-Time Use Cancellation

14b. Changes: (check all that apply) 4/24/96
 Intent Change Non-intent Change Regular Interim Approval Requested - Needed for Immediate Use (14-day limit for obtaining final approval)
 Editorial Correction

Additional Attributes:
 Temporary One-Time-Use Limited Distribution

15. ERM Change Control Board Required: Yes No (Applicable only to new procedures, revisions, and intent changes)

List the reviewing disciplines in Block 16. After concurrence has been obtained (in accordance with 1-A01-PROC DEV-400), enter the name of the reviewer followed by IS in block 17. If the reviewer indicates No comments, the review signature constitutes concurrence. Enter the date concurrence is obtained in Block 18.

16. Organization	17. Reviewer/Concurrence	18. Date	16a. Organization	17a. Reviewer/Concurrence	18a. Date
Rad Eng	IS/ M. L. Littleton	5/9/96			
Rad Health	IS/ S. C. Parker	4/25/96			
Rad Ops	IS/ L. G. Ubbins	4/25/96			
Rad Contingency	P. D. Worley	5/21/96			
SME	IS/ R. M. Richards	4/25/96			
Traffic Mgmt	IS/ V. G. Adams	4/25/96			

19. Assigned SME/Phone/Pager/Location: R. M. Richards/5148/5886/T690B

20. Cost Center: I3168

21. Charge Number: 82401510

22. Requested Completion Date

23. Prescreen/Screen/USQD Number: SES-RFP-96.0643-WED

24. Independent Safety Review Meeting and Date: SORC-96-023 7/21/96

26. After obtaining ALL required signatures: Responsible Manager's Approval (print/sign/date) (Not required for New procedures or Revisions)
R. G. Cord

27. Effective Date: 7/22/96 8/21/96

28. Expiration Date (if applicable): 7/21/96

PADC-95-01492

UNCONTROLLED COPY

August 5, 1996

DMR (continuation sheet)

Print or Type all information (except signatures). Process procedures in accordance with 1-A01-PROC DEV-400, Procedure Process

25. DMR No.
96-DMR-000426

06/11/1997

3. Document Number/Revision 1-P73-HSP-18.10, Revision 0	5. Document Title Radioactive Material Transfer & Unrestricted Release of Property and Waste
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6. Item	7. Page	8. Step	9. Proposed Modification
2	13	6.2[2] cont.	THEN complete the Material Transfer and Disposal form, including the Onsite Property/Waste Transfer signature section. No Radiological Control signature is required on the Material Transfer and Disposal form.
3	16	6.4[6]	Add the following clarifier to the end of the step "..., unless specifically excepted on the WRE (for example, disposal of obsolete Radiological Control postings and labels).
4	18	6.5[8][A]	Modify Step [A] to have the Sender or Custodian of Property or Waste to provide RE a copy of the NRC or Agreement State license for any non-DOE facility receiving radioactive or potentially radioactive materials. Put the requirement that the receiving facility possess the necessary NRC or Agreement State license for the radionuclides being shipped and be permitted to accept the property or waste in accordance with applicable DOE Orders or federal, state, county, and municipal regulations as supplemental information.
5	Global	Global	Change globally the title of Appendix 6 to "Nonradioactive Sample Release List."
6	28	Appendix 5	Add another streamlined requirement to the Specific section of page 2, item 4. This requirement is on Industrial Hygiene samples (such as lead, soil, silica, etc.) originating at the Security Training Firearms Range.
7	28	Appendix 5	Add a streamline requirement to the Specific section of page 2, item ⁷ 6, as follows: Laundered, anti-C clothing may be carried between posted radiological areas without a contamination or radiation survey, or Radioactive Material Transfer Tag (RF-5822.03), provided the clothing is securely packaged in plastic or otherwise contained. The exterior surface of the package (plastic or container) must be marked with a Caution Radioactive Material label or tag prior to movement.
8	29	Appendix 6	Modify the list to add and delete buildings/structures. The add list consist of T120A, T331C, 566, and T690 Trailers (except J). The delete list consist of 549, 570, T891 Trailers, and 900.
9	2	LOEP	Modify List of Effective Pages (LOEP) to match attached affected pages.

10. Item	10a. Justification (Reason for Modification)
3.	Clarify the exception for disposal of obsolete labels/postings.
4.	Provides a method by which the RE can obtain a copy of the NRC and/or State Agreement license. Also decrease duplicate efforts in obtaining a license for review.
5.	Editorial correction to current accepted title nomenclature.
6.	The Firearm Range location has a nonradioactive designation.
7.	Allows movement of laundered, anti-C's from one posted radiological area to another in accordance with the Rad Con Manual requirements.
8.	Change made based on the designation of a nonradioactive building/structure.
9.	PPG-003 writing requirement.

26. After obtaining ALL required signatures: Responsible Manager's Approval (print/sign/date) (Not required for New procedures and Revisions)

R.B. Card / See signature on page 1

Document Modification Request

Print or Type all information (except signatures). Process procedures in accordance with 1-A01-PROC DEV-400, Procedure Process

25. DMR No.
95-DMR-oc 1254

1. Name/Phone/Pager/Location WILLIAM E. DICK / X8407 / DP4174 / T690A			2. Date 10/23/95
3. Existing Document Number and Revision 1-P73-HSP-18.10 , REVISION 0			4. Document Type: <input checked="" type="checkbox"/> Procedure <input type="checkbox"/> Plan <input type="checkbox"/> Other
5. Document Title RADIOACTIVE MATERIAL TRANSFER AND UNRESTRICTED RELEASE OF PROPERTY AND WASTE			
6. Item	7. Page	8. Step	9. Proposed Modification
1	2	N/A	LOEP: Change in accordance with attached affected pages.
2	19	4.3; 8.0	Change title of procedure 4-N83-REP-11.08 to "Radioactive Material Management Area (RMMA) Determination."
3	20	Appx 1	Correct Table, Radionuclide column. First row: "Ra-225" to "Ra-226"; "Pu-231" to "Pa-231"; second row: "I-125" to "I-126"; third row: "U-236" to "U-238".
10. Item	10a. Justification (reason for modification, EJO #, TP #, etc.)		
1	1-A02-PPG-003 requirement.		
2	Title change in the procedure. Make reference match current nomenclature.		
3	Editorial correction to match radionuclides given in NUREG- 1.86, Table 1.		

ORIGINATOR'S SUPERVISOR

11. <input checked="" type="checkbox"/> Process <input type="checkbox"/> Do not Process (state reason in Block 10a)	(print/sign/date) <i>WJ Baker</i> / <i>10/24/95</i>
12. <input checked="" type="checkbox"/> Process (Complete Blocks 13-22) <input type="checkbox"/> Do not Process (state reason in Block 10a)	(print/sign/date) <i>M.S. Spears</i> / <i>10/24/95</i>
13. New Document/Rev. No. (if new or changed) N/A	

Complete either Section 14a or 14b as applicable. For procedures, attach completed Procedure Modification Worksheet from 1-A01-PROC DEV-400.

14a. Type of Complete Modification <input type="checkbox"/> New <input type="checkbox"/> Revision <input type="checkbox"/> One-Time Use <input type="checkbox"/> Cancellation	14b. Changes: (check all that apply.) <input type="checkbox"/> Intent Change <input type="checkbox"/> Non-intent Change <input checked="" type="checkbox"/> Editorial Correction <input type="checkbox"/> Regular <input type="checkbox"/> Interim Approval Requested - Needed for Immediate Use (14-day limit for obtaining final approval)	Additional Attributes: <input type="checkbox"/> Temporary <input type="checkbox"/> One-Time-Use <input type="checkbox"/> Limited Distribution
---	---	--

15. ERM Change Control Board Required: Yes No (Applicable only to new procedures, revisions, and intent changes)

List the reviewing disciplines in Block 16. After concurrence has been obtained (in accordance with 1-A01-PROC DEV-400), enter the name of the reviewer followed by /s/ in block 17. If the reviewer indicates No comments, the review signature constitutes concurrence. Enter the date concurrence is obtained in Block 18.

16. Organization	17. Reviewer/Concurreor	18. Date	16a. Organization	17a. Reviewer/Concurreor	18a. Date
RCMI	/s/ E. R. Johnson	10/27/95			
Rad Eng	<i>Baker</i>	10-26-95			
Rad Health	/s/ S. C. Baker	10/30/95			
Rad Ops	/s/ J. M. Wood	10/31/95			
SME	<i>Richards</i>	10-26-95			
Traffic	/s/ K. Lenarcic	10/27/95			

19. Assigned SME/Phone/Pager/Location B. M. Richards/ X5148 / DP-5886 / T690B	20. Cost Center 13168	21. Charge Number 82401510	22. Requested Completion Date
---	---------------------------------	--------------------------------------	-------------------------------

23. Prescreen/Screen/USOD Number
Safety Evaluation not required.

24. Independent Safety Review Meeting and Date
Independent Safety Review not required.

26. After obtaining ALL required signatures; Responsible Manager's Approval (print/sign/date) (Not required for New procedures or Revisions) <i>J.M. Wood</i> / <i>12/7/95</i>	27. Effective Date 12/18/95
	28. Expiration Date (if applicable) REVIEWED FOR CLASSIFICATION

UN
M.S. SPEARS

Rocky Flats Environmental Technology Site 1-P73-HSP-18.10

REVISION 0

RADIOACTIVE MATERIAL TRANSFER AND UNRESTRICTED RELEASE OF PROPERTY AND WASTE

APPROVED BY: *R.E. Kell* / R.E. Kell 4/20/95
Director, Print Name Date
Engineering and Safety Services

Responsible Organization: Radiological Control Effective Date: 05/04/95

CONCURRENCE BY THE FOLLOWING DISCIPLINES IS DOCUMENTED IN THE PROCEDURE HISTORY FILE:

- RCM Implementation
- Radiological Engineering
- Radiological Health
- Radiological Operations
- Subject-matter Expert
- Traffic

USE CATEGORY 4

ORC review: SORC-95-017

Reviewed for Classification/UCNI

The following have been incorporated in this revision:
94-DMR-001902

By Mary K. Fiore (UNU)
Date 4/20/95

This procedure supersedes procedure 1-61110-HSP-18.10, Revision 0.

Periodic review frequency: 4 years from the effective date

UN CONTROLLED COPY

LIST OF EFFECTIVE PAGES

<u>Pages</u>	<u>Effective Date</u>	<u>Pages</u>	<u>Effective Date</u>
1	05/04/95		
2	03/17/97		
3	08/02/96		
4-6	05/04/95		
7	08/02/96		
8-9	05/04/95		
10	12/18/95		
11-12	05/04/95		
13	08/02/96		
14-15	05/04/95		
16-19	08/02/96		
20	12/18/95		
21-26	05/04/95		
27	03/17/97		
28-29	08/02/96		

The following DMRs are active for this procedure:

97-DMR-000185

96-DMR-000426

95-DMR-001254

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1. PURPOSE

This procedure provides the responsibilities, requirements, and instructions regarding radioactive material transfer or unrestricted release of property and waste established by the following documents:

- Department of Energy (DOE) DOE/EH-0256T, Radiological Control Manual (RCM)
- DOE Order 5400.5, Radiation Protection of the Public and the Environment
- Rocky Flats Environmental Technology Site Radiological Control Manual (Site RCM)
- Title 10 Code of Federal Regulations (CFR) 10 CFR 835, Occupational Radiation Protection
- 40 CFR 261, Identification and Listing of Hazardous Waste
- 49 CFR 173, Subpart I, Radioactive Materials Transportation
- No Radioactivity Added Waste (NRA) Verification Program

This procedure cannot be changed without the approval of the Radiological Control Department.

2. SCOPE

This procedure addresses the following topics:

- Streamlined requirements
- Transfer of radioactive or potentially radioactive property or waste
- Nonradioactive onsite transfer
- Unrestricted release of property
- Unrestricted release of waste or excess chemicals

Where potentially contaminated surfaces are not accessible for measurement (as in some pipes, drains, and ductwork), such property may be released after case-by-case evaluation and documentation based on both the history of its use and available measurements demonstrating the unsurveyable surfaces are likely (for example, 95% confidence) to be within the limits of Appendix 1, Summary of Contamination Values for Unrestricted Release.

2. **SCOPE (continued)**

The standards of this procedure apply to all property or waste within the Rocky Flats Environmental Technology Site (Rocky Flats) boundary, and to all persons, including DOE, contractors, and subcontractors, who handle or are responsible for the radioactive material transfer or unrestricted release of property or waste within the Rocky Flats boundary.

This revision is a total rewrite and revision bars are omitted. This revision supersedes 1-61110-HSP-18.10. The revision is designated Revision 0 because the procedure number has been changed.

3. **DEFINITIONS AND ACRONYMS**

3.1 **Definitions**

Further information on the definitions and acronyms included in this section can be found in the Site RCM Glossary.

ALARA (As Low As Reasonably Achievable). The approach to radiation protection to manage and control exposures (both individual and collective) to the work force and to the general public to as low as is reasonable, taking into account social, technical, economic, practical, and public policy considerations.

Contamination. Deposition or presence of unwanted or undesirable radioactive material on the surfaces of structures, areas, objects, or personnel. Radioactive material (contamination) can also be contained within the matrix of a material such as liquids, soils, and solids, or within activated materials. Contaminated property exceeds the limits of Appendix 1, Summary of Contamination Values for Unrestricted Release. Waste designated as contaminated does not meet the requirements of the No Radioactivity Added (NRA) Waste Verification Program.

3.1 Definitions (continued)

Controlled Area. For radiological control purposes, any area to which access is managed in order to protect individuals from exposure to radiation and/or radioactive material. Individuals who enter only the Controlled Area without entering radiological areas are not expected to receive a total effective dose equivalent of more than 0.1 rem (0.001 sievert) per year. (The Controlled Area postings are being implemented in accordance with DOE RCM and 10 CFR 835 compliance schedules.)

Material Transfer and Disposal form (RF-47555). The form used for the onsite movement of nonradioactive property or waste or for the unrestricted release of nonradioactive property or waste. An example of the form is included in Appendix 2, Material Transfer and Disposal form.

Naturally Occurring Radioactive Material (NORM). Any nuclide that is radioactive in its natural physical state and is not manufactured or man-made.

No Radioactivity Added (NRA) Waste Verification Program. A program established by the DOE Performance Objective for the Certification of Nonradioactive Hazardous Waste to ensure that wastes from DOE facilities have no bulk or volume radioactive contamination added as a result of DOE operations, and are in compliance with DOE Order 5400.5, criteria for surface contamination.

Offsite. For radiological control purposes, the following buildings or areas are characterized as offsite:

- Destinations outside Rocky Flats which is bounded by Colorado Highway 93, Colorado Highway 128, Colorado Highway 72, and Indiana Avenue
- Building 130 General Warehouse and Buildings 060, 061, 250, and 552
- Rocky Flats Landfill
- Regulated Waste Operations facilities designated for storage of nonradioactive waste destined for offsite shipment

Personal Property. Property which includes but is not limited to miscellaneous hand-carried personal items such as pens, notebooks, watches, pagers, briefcases, lunchboxes, and glasses.

3.1 **Definitions (continued)**

Property. All items, materials, instrumentation, and equipment which are government-, contractor-, or subcontractor-owned, leased, or operated, and are used or have been used within the Rocky Flats boundary.

Property Release Evaluation. An evaluation performed by Radiological Engineering (RE) on property which cannot be monitored and released for unrestricted use by using standard survey techniques.

Radioactive Material. Any material, equipment, or system component determined to be contaminated or suspected of being contaminated. Radioactive material also includes activated material, sealed and unsealed sources, and material that emits radiation.

Radioactive Material Area. Any area where radioactive materials are used, handled, or stored.

Radioactive Material Management Area (RMMA). An area in which the potential exists for contamination due to the presence of unencapsulated or unconfined radioactive material, or beams of radiation which could cause activation. RMMAs are buildings, rooms, facilities, or areas where waste or property is controlled as radioactive until proven otherwise.

Radioactive Material Transfer Tag (RF-5822.03). A tag that specifies the radiological requirements for the controlled release of radioactive or potentially radioactive material (property or waste). An example of the tag is included in Appendix 3, Radioactive Material Transfer Tag.

Radiological Area. Any area within a controlled area which must be posted as a "radiation area," "high radiation area," "contamination area," "high contamination area," or "airborne radioactivity area" in accordance with 10 CFR 835 S 835.603, as presented in Table 2-3, Criteria for Posting Radiation Areas and Table 2-4, Criteria for Posting Contamination, High Contamination, and Airborne Radioactivity Areas.

Radiological Buffer Area (RBA). An intermediate area established to prevent the spread of radioactive contamination and to protect personnel from radiation exposure.

16-DMR-000426

3.1 Definitions (continued)

Shall. Identifies the elements and requirements that have been considered and found by the DOE to be mandatory unless prior approval of an alternative approach is obtained from DOE Headquarters.

Should. Identifies items for which the contractor has the responsibility of either following the provision, or demonstrating technical equivalency by an alternative solution.

Soil Contamination Area (SCA). Any area where radioactive material contamination exists in a soil matrix at levels exceeding natural background and has not been released for unrestricted use in accordance with DOE 5400.5.

Transfer of Radioactive Material, Property, or Waste. Administratively controlled transfer of radioactive or potentially radioactive material.

Unrestricted Release. Release of property or waste from anywhere within the Rocky Flats boundaries without restriction on future movement, disposal, or use in accordance with the guidelines or requirements of 10 CFR 835, DOE 5400.5, or the NRA Waste Verification Program.

Waste. Any material that meets the definition of a solid waste as defined in 40 CFR 261, or any material (regulated or unregulated) that is destined for recycle or reclamation by Regulated Waste Operations, a landfill, or offsite disposal or treatment. Regulated Waste Operations is responsible for the determination of wastes.

3.1 Definitions (continued)

Waste Release Evaluation (WRE). An evaluation performed by RE for the unrestricted release or controlled transfer of wastes in accordance with the NRA Waste Verification Program.

Waste Stream Residue Identification and Characterization (WSRIC) Book. A building-specific controlled document delineating the waste stream characteristics and disposition requirements for wastes generated during routine operations.

3.2 Acronyms

DOE U.S. Department of Energy
PRE Property Release Evaluation
PRL Property Release Log
RAM Radioactive Material
RBA Radiological Buffer Area
RCM Radiological Control Manual
RE Radiological Engineering
RESO Radiological Engineering Site Operations
RMMA Radioactive Material Management Area
RO Radiological Operations
RWP Radiological Work Permit
WRE Waste Release Evaluation

4. RESPONSIBILITIES

4.1 All Directors

Ensure that Rocky Flats personnel follow the requirements of this procedure, and provide sufficient resources for the development and implementation of property or waste release program requirements.

4.2 Procedure User (functional title)

Reads, understands, and complies with all of the requirements in this procedure.

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4.3 Radiological Engineering (RE)

Specifies and documents alternate, nonroutine, or special methods to meet unrestricted release criteria required in federal regulations in accordance with 4-Q97-REP-1003, Radiological Evaluation for Unrestricted Release of Property/Waste.

Classifies buildings, rooms, areas, or facilities in accordance with 4-N83-REP-1108, Radioactive Material Management Area (RMMA) Determination.

Specifies and documents methods for unrestricted release or radioactive material transfer of wastes in accordance with the NRA Waste Verification Program.

4.4 Radiological Operations (RO)

Evaluates property process knowledge or history and performs radiological surveys in accordance with 4-S23-ROI-3.02, Radiological Requirements for Unrestricted Release.

Authorizes the unrestricted release of property in accordance with 4-S23-ROI-3.02.

Authorizes the transfer of radioactive or potentially radioactive property or waste from one radiological area to another radiological area in accordance with 4-S23-ROI-3.02.

Refers Sender/Custodian requests for unrestricted release of wastes to RE in accordance with this procedure.

4.5 Sender or Custodian (of Property, Waste, or Excess Chemicals)

Ensures that all documents, tags, or forms needed to meet the requirements of this procedure are properly completed.

Schedules RO, RE, Transportation Security Officer (TSO), and Transportation, as appropriate, for the property or waste release.

Completes Appendix 4, Property/Waste Release Evaluation (P/WRE) Request form, as required.

4.5 **Sender or Custodian (of Property, Waste, or Excess Chemicals) (continued)**

Provides an accurate history or process knowledge of the property or waste to RO and RE, as requested.

Ensures that radiological surveys, as required, are completed before the release of property or waste.

Ensures that all packaging requirements are completed before the release of property or waste.

Ensures that all required sampling and analysis of volume or bulk property or waste are completed in accordance with requirements specified by RE.

5. **REQUIREMENTS**

The requirements for the release of property or waste are specified in the following documents:

- DOE/EH-0256T, Radiological Control Manual
- DOE Order 5400.5
- Site RCM
- 10 CFR 835
- 49 CFR 173, Subpart I
- No Radioactivity Added Waste Verification Program

This procedure includes the steps necessary to implement and ensure compliance with these documents and requirements.

- A. Prior to being released, property shall be evaluated and/or surveyed to determine whether both removable and total surface contamination (including contamination present on and under any coating) are in compliance with the levels given in Appendix 1, and that the contamination has been subjected to the ALARA process.
- B. Property shall be considered to be potentially contaminated if it has been used or stored in an RMMA.

5. REQUIREMENTS (continued)

- C. Surfaces of potentially contaminated property shall be surveyed using instruments and techniques such that the Minimum Detectable Activity (MDA) is less than the limits stated in Appendix 1.
- D. The records of released property shall include:
- A description or identification of the property
 - The date of the last radiation survey
 - The identity of the organization and the individual who performed the monitoring operation
 - The type and identification number of monitoring instruments
 - The results of the monitoring operation
 - The identity of the recipient of the released material.
- E. All material shall be packaged and transferred in accordance with the requirements of the Rocky Flats Transportation Safety Manuals.

6. INSTRUCTIONS

Procedure User

- [1] Ensure that all of the requirements in this procedure are met.

All Directors

- [2] Provide sufficient resources for the development and implementation of property or waste release program requirements.

Sender or Custodian of Property

- [3] Obtain all of the required documents, tags, or forms before beginning the process of transfer or release of property, waste, or excess chemicals.

6.1 **Streamlined Requirements**

Appendix 5, Streamlined Requirements for Transfer or Release of Property or Waste, contains a list of special situations which have streamlined requirements for property or waste release.

Sender or Custodian of Property or Waste

- [1] Ensure that items covered in Appendix 5 are handled in accordance with the specified requirements.

6.2 **Nonradioactive Onsite Transfer**

Sender or Custodian of Property

- [1] **IF** the final destination is offsite as defined in Section 3.1, Definitions, **THEN** go to Section 6.3, Unrestricted Release of Property.
- [2] **IF** the transfer origination location is **NOT** a Radiological Buffer Area, Contamination Area, High Contamination Area, Fixed Contamination Area, Underground Radioactive Material Area, Soil Contamination Area, Airborne Radioactive Area, Radiation Area, High Radiation, or Very High Radiation Area,
AND the final destination is onsite, as defined in Section 3.1,
THEN complete the Material Transfer and Disposal form, including the Onsite Property/Waste Transfer signature section.

No Radiological Control signature is required on the Material Transfer and Disposal form.

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6.3 Unrestricted Release of Property

Sender or Custodian of Property

- [1] Complete the applicable sections of the Material Transfer and Disposal form.
- [2] Contact Radiological Operations (RO) to obtain approval for the unrestricted release of the property.
- [3] Provide RO with process knowledge or history for the property.

RO

- [4] Evaluate or survey the property for unrestricted release in accordance with 4-S23-ROI-3.02.

Sender or Custodian of Property

- [5] **IF** RO is unable to survey the property for unrestricted release in accordance with 4-S23-ROI-3.02,
THEN complete the Property/Waste Release Evaluation (P/WRE) Request form.

RE

- [6] Provide a PRE to the Sender or Custodian in accordance with 4-Q97-REP-1003, Radiological Evaluation for Unrestricted Release of Property/Waste.

Sender or Custodian of Property

- [7] Contact RO to complete the activities required in Part II of the PRE.

RO

- [8] Complete the radiological surveys as required in Part II of the PRE.

Sender or Custodian of Property

- [9] Return the completed survey forms and other data or information as requested in Part II of the PRE to RE for approval.

6.3 Unrestricted Release of Property (continued)

RE

- [10] Document the PRE number on the Material Transfer and Disposal form.
- [11] Sign the Material Transfer and Disposal form authorizing the unrestricted release.

RO

- [12] Remove or deface radioactive material labels, tags, and signs before the unrestricted release of the property.

Sender or Custodian of Property

- [13] Obtain Property Utilization & Disposal (PU&D) approval before transferring property for unrestricted release to PU&D.

6.4 Unrestricted Release of Waste or Excess Chemicals

Sender or Custodian of Waste or Excess Chemicals

- [1] Complete the P/WRE Request form before the generation of any wastes, except as specified below:
- Low-level Waste
 - Transuranic Waste
 - Mixed Waste
 - Requirements addressed in Appendix 5

RE

- [2] Provide a WRE in accordance with 4-Q97-REP-1003.

Sender or Custodian of Waste or Excess Chemicals

- [3] Ensure that the activities required in Part II of the WRE are completed.
- [4] Forward the data or information requested in Part II of the WRE, and the Material Transfer and Disposal form to the appropriate RE for review and unrestricted release approvals.
- [5] Submit the completed and approved WRE to the recipient organization to ensure shipment meets acceptance criteria before transfer to recipient organization.

6.4 Unrestricted Release of Waste or Excess Chemicals (continued)

Recipient organizations include, but are not limited to the following:

- Rocky Flats facilities designated for storage of nonradioactive Resource Conservation Recovery Act (RCRA) wastes, nonradioactive asbestos, and polychlorinated biphenyls, or nonradioactive excess chemicals
- Rocky Flats facilities designated for storage of nonradioactive and nonregulated wastes (motor oils, free liquids, latex paints)
- Rocky Flats sanitary landfill
- Offsite facilities contracted to provide treatment, storage, disposal, or recycle services for Rocky Flats nonradioactive wastes

RO

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- [6] Remove or deface radioactive material labels, tags, and signs before the Unrestricted Release of the waste, unless specifically excepted on the WRE (for example, disposal of obsolete Radiological Control postings and labels).

RE

- [7] Document the WRE number on the Material Transfer and Disposal form.
- [8] Sign the Material Transfer and Disposal form authorizing the Unrestricted Release.

6.5 Transfer of Radioactive or Potentially Radioactive Property or Waste

The transfer of radioactive or potentially radioactive material also includes the shipment to properly licensed offsite facilities .

In general, radioactive or potentially radioactive materials are transferred from one radiological area to another with a Radioactive Material Transfer Tag (RF-5822.03).

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6.5 **Transfer of Radioactive or Potentially Radioactive Property or Waste**
(continued)

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Sender or Custodian of Property or Waste

- [1] Complete the applicable sections of the Radioactive Material Transfer Tag (RF-5822.03).
- [2] Contact RO to obtain approval for the transfer of the property or waste.

RO

- [3] **IF** the property or waste is to be transferred onsite,
THEN transfer the property or waste in accordance with 4-S23-ROI-3.02.
- [4] **IF** the property or waste is to be transferred offsite,
THEN transfer the property or waste in accordance with 4-S23-ROI-3.02 during the onsite movement of the property or waste.

NOTE *Documentation, Packaging, Transferring, and Shipping requirements are contained within the Rocky Flats Transportation Safety Manuals.*

Sender or Custodian of Property or Waste

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- [5] **IF** the property or waste is to be transferred onsite,
THEN control the property or waste in accordance with RO specifications on the Radioactive Material Transfer Tag (RF-5822.03) and the appropriate governing Rocky Flats documents.
- [6] **IF** the property or waste is to be transferred offsite,
THEN control the property or waste in accordance with RO specifications on the Radioactive Material Transfer Tag (RF-5822.03) during the onsite movement of the property or waste.
- [7] **IF** the property or waste has a total specific activity greater than or equal to two (2) nanoCuries (*nCi*) per gram,
AND the destination is offsite, as defined in Section 3.1, Definitions,
THEN contact Traffic for guidance.

**6.5 Transfer of Radioactive or Potentially Radioactive Property or Waste
(continued)**

[8] IF the property or waste has a total activity less than two (2) *nCi* per gram,
AND the destination is offsite, as defined in Section 3.1,
THEN:

[A] Provide RE a copy of the Nuclear Regulatory Commission (NRC) or Agreement State license for any non-DOE facility receiving radioactive or potentially radioactive materials.

The receiving facility must possess the necessary NRC or Agreement State license for the radionuclides potentially being shipped and be permitted to accept the property or waste in accordance with applicable DOE Orders or federal, state, county, and municipal regulations.

[B] Contact Traffic for further guidance.

RE

[9] Ensure that the NRC, agreement State license, DOE Orders or federal, state, county, and municipal permits are formally documented, retrievable, and traceable to the property or waste being transferred.

7. RECORDS

The Material Transfer and Disposal form is a Quality Assurance Record for PU&D and Property Management.

Sender or Custodian of Property, Waste, or Excess Chemicals

[1] Attach photocopies of the following to Return Orders (RF-3020) and Shipping Memos (RF-24320 or RF-38580), when required, for materials destined for offsite shipment:

- Material Transfer and Disposal form
- Radioactive Material Transfer Tag (RF-5822.03)
- PRE or WRE
- Radioactive Shipment Preparation Certification (RF-46404)

[2] Send Return Orders and Shipping Memos to the Traffic Department.

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46-DWR-00042
7.

RECORDS (continued)

[3] Disposition the Material Transfer and Disposal form as a Quality Assurance Record in accordance with 1-77000-RM-001, Records Management Guidance for Records Sources.

8. REFERENCES

DOE Order 5400.5, Radiation Protection of the Public and the Environment

DOE/EH-0256T, Radiological Control Manual

No Radioactivity Added (NRA) Waste Verification Program

Nuclear Regulatory Commission Regulatory Guide 1.86.

Rocky Flats Transportation Safety Manuals

Site RCM

1-77000-RM-001, Records Management Guidance for Records Sources

4-N83-REP-1108, Radioactive Material Management Area (RMMA) Determination

4-Q97-REP-1003, Radiological Evaluation for Unrestricted Release of Property/Waste

4-S23-ROI-03.02, Radiological Requirements for Unrestricted Release

10 CFR 835, Occupational Radiation Protection

40 CFR 261, Identification and Listing of Hazardous Waste

49 CFR 173, Subpart I, Radioactive Materials Transportation

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APPENDIX 1
Page 1 of 1

**SUMMARY OF CONTAMINATION VALUES FOR
UNRESTRICTED RELEASE**

Limits in this table are from the Nuclear Regulatory Commission Regulatory Guide 1.86

RADIONUCLIDE (1)	Average Total (Fixed + Removable) Contamination (3,4) dpm/100cm ² (2)	Maximum Total (Fixed + Removable) Contamination (4,5) dpm/100cm ² (2)	Removable Contamination (2,4,6) dpm/100cm ²
Transuranics, I- ¹²⁵ , I- ¹²⁹ , Ra- ²²⁶ , Ac- ²²⁷ , Ra- ²²⁸ , Th- ²²⁸ , Th- ²³⁰ , Pa- ²³¹	100	300	20
Th-(natural), Sr- ⁹⁰ , I- ¹²⁶ , I- ¹³¹ , I- ¹³³ , Ra- ²²³ , Ra- ²²⁴ , U- ²³² , Th- ²³²	1,000	3,000	200
U-(natural), U- ²³⁵ , U- ²³⁸ , & associated decay products, alpha emitters	5,000	15,000	1,000
Beta-gamma emitters (radionuclides with decay modes other than alpha emission or spontaneous fission) except Sr- ⁹⁰ & others noted below (7)	5,000	15,000	1,000

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Notes:

- (1) Where surface contamination by both alpha and beta-gamma emitting radionuclides exists, the limits established for alpha and beta-gamma emitting radionuclides should apply independently.
- (2) As used in this table, disintegrations per minute (dpm) is defined as the rate of emission by radioactive material as determined by correcting the counts per minute measured by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.
- (3) Measurements of average contamination should not be averaged over an area of more than 1 meter². For objects with a total surface area of less than 1 meter², the average should be derived for each object.
- (4) The average and maximum dose rates associated with surface contamination resulting from beta-gamma emitters should not exceed 0.2 mRad/hour and 1.0 mRad/hour, respectively at 1cm.
- (5) The maximum contamination level applies to an area of not more than 100cm².
- (6) The amount of removable material per 100cm² of surface area should be determined by wiping an area of that size with a dry filter of soft, absorbent paper, applying moderate pressure, and measuring the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of surface area less than 100cm² is determined, the activity per unit area should be based on the actual area and the entire surface should be wiped. Except for transuranics and Ra-²²⁸, Ac-²²⁷, Th-²²⁸, Pa-²³¹, and alpha emitters, it is not necessary to use swiping techniques to measure removable contamination levels if direct scan surveys indicate the total residual surface contamination levels are within the limits for removable contamination.
- (7) This category of radionuclides includes mixed fission products, including the Sr-⁹⁰ which is present in them. It does not apply to Sr-⁹⁰ which has been separated from the other fission products or mixtures where the Sr-⁹⁰ has been enriched.

96-DMR-ccc426
7.

RECORDS (continued)

[3] Disposition the Material Transfer and Disposal form as a Quality Assurance Record in accordance with 1-77000-RM-001, Records Management Guidance for Records Sources.

8. REFERENCES

DOE Order 5400.5, Radiation Protection of the Public and the Environment

DOE/EH-0256T, Radiological Control Manual

No Radioactivity Added (NRA) Waste Verification Program

Nuclear Regulatory Commission Regulatory Guide 1.86.

Rocky Flats Transportation Safety Manuals

Site RCM

1-77000-RM-001, Records Management Guidance for Records Sources

4-N83-REP-1108, Radioactive Material Management Area (RMMA) Determination

4-Q97-REP-1003, Radiological Evaluation for Unrestricted Release of Property/Waste

4-S23-ROI-03.02, Radiological Requirements for Unrestricted Release

10 CFR 835, Occupational Radiation Protection

40 CFR 261, Identification and Listing of Hazardous Waste

49 CFR 173, Subpart I, Radioactive Materials Transportation

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APPENDIX 1

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**SUMMARY OF CONTAMINATION VALUES FOR
UNRESTRICTED RELEASE**

Limits in this table are from the Nuclear Regulatory Commission Regulatory Guide 1.86

RADIONUCLIDE (1)	Average Total (Fixed + Removable) Contamination (3,4) dpm/100cm ² (2)	Maximum Total (Fixed + Removable) Contamination (4,5) dpm/100cm ² (2)	Removable Contamination (2,4,6) dpm/100cm ² (2)
Transuranics, I- ¹²⁵ , I- ¹²⁹ , Ra- ²²⁶ , Ac- ²²⁷ , Ra- ²²⁸ , Th- ²²⁸ , Th- ²³⁰ , Pa- ²³¹	100	300	20
Th-(natural), Sr- ⁹⁰ , I- ¹²⁶ , I- ¹³¹ , I- ¹³³ , Ra- ²²³ , Ra- ²²⁴ , U- ²³² , Th- ²³²	1,000	3,000	200
U-(natural), U- ²³⁵ , U- ²³⁸ ; & associated decay products, alpha emitters	5,000	15,000	1,000
Beta-gamma emitters (radionuclides with decay modes other than alpha emission or spontaneous fission) except Sr- ⁹⁰ & others noted below (7)	5,000	15,000	1,000

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Notes:

- (1) Where surface contamination by both alpha and beta-gamma emitting radionuclides exists, the limits established for alpha and beta-gamma emitting radionuclides should apply independently.
- (2) As used in this table, disintegrations per minute (dpm) is defined as the rate of emission by radioactive material as determined by correcting the counts per minute measured by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.
- (3) Measurements of average contamination should not be averaged over an area of more than 1 meter². For objects with a total surface area of less than 1 meter², the average should be derived for each object.
- (4) The average and maximum dose rates associated with surface contamination resulting from beta-gamma emitters should not exceed 0.2 mRad/hour and 1.0 mRad/hour, respectively at 1cm.
- (5) The maximum contamination level applies to an area of not more than 100cm².
- (6) The amount of removable material per 100cm² of surface area should be determined by wiping an area of that size with a dry filter of soft, absorbent paper, applying moderate pressure, and measuring the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of surface area less than 100cm² is determined, the activity per unit area should be based on the actual area and the entire surface should be wiped. Except for transuranics and Ra-²²⁸, Ac-²²⁷, Th-²²⁸, Pa-²³¹, and alpha emitters, it is not necessary to use swiping techniques to measure removable contamination levels if direct scan surveys indicate the total residual surface contamination levels are within the limits for removable contamination.
- (7) This category of radionuclides includes mixed fission products, including the Sr-⁹⁰ which is present in them. It does not apply to Sr-⁹⁰ which has been separated from the other fission products or mixtures where the Sr-⁹⁰ has been enriched.

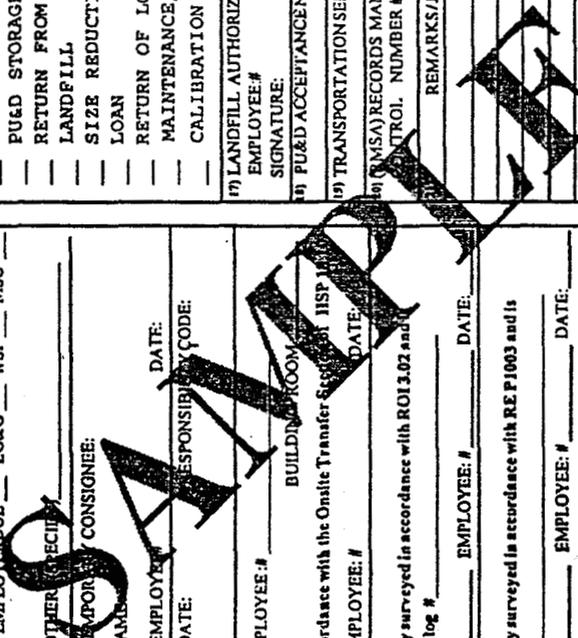
APPENDIX 2

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MATERIAL TRANSFER AND DISPOSAL FORM

MATERIAL TRANSFER AND DISPOSAL

1) QTY		2) UNIT OF MEASURE		3) ITEM(S) DESCRIPTION		4) PROPERTY CONTROL NUMBER (BAR CODE #)	
5) MANUFACTURER:		6) MODEL:		7) CONDITION CODE:		8) TRANSFER/PROPERTY ACTION	
9) NAME: PHONE: # PAGER: #		10) DATE:		11) RESPONSIBILITY CODE: BUILDING # ROOM #		ON SITE TRANSFER EXCESS DECLARATION OFF SITE SHIPMENT CHANGE OF LOCATION PUD STORAGE RETURN FROM STORAGE LANDFILL SIZE REDUCTION LOAN RETURN OF LOAN MAINTENANCE/REPAIR CALIBRATION	
12) PROPERTY CUSTODIAN SIGNATURE: EMPLOYEE: #		EMPLOYEE: #		E.O.G. WSI MSC			
13) DRIVER: NAME: EMPLOYEE #		DATE:		OTHER SPECIFIC INFORMATION: PROPERTY CUSTODIAN: NAME: EMPLOYEE #			
14) PROPERTY CUSTODIAN: SIGNATURE: EMPLOYEE #		DATE:		RESPONSIBILITY CODE:			
15) SENDER: (Print Name)		EMPLOYEE: #		BUILDING ROOM		16) LANDFILL AUTHORIZATION: #	
ONSITE PROPERTY/WASTE TRANSFER I certify the above described item(s) are being transferred in accordance with the Onsite Transfer Section of HSP 18.10.		EMPLOYEE: #		DATE:		17) EMPLOYEE: # SIGNATURE:	
UNRESTRICTED PROPERTY RELEASE APPROVAL The above described item(s) has been evaluated and/or radiologically surveyed in accordance with ROI 3.02 and is approved for unrestricted release.		PROPERTY / Waste Release log #		DATE:		18) PUD ACCEPTANCE NUMBER	
RADIOLOGICAL OPERATIONS SIGNATURE		EMPLOYEE: #		DATE:		19) TRANSPORTATION SERVICE NUMBER:	
UNRESTRICTED PROPERTY/WASTE RELEASE APPROVAL The above described item(s) has been evaluated and/or radiologically surveyed in accordance with R.E.P. 1003 and is approved for unrestricted release.		PRE #		DATE:		20) (NMSA) RECORDS MANAGEMENT STORAGE AREA CONTROL NUMBER #	
RADIOLOGICAL ENGINEER SIGNATURE		EMPLOYEE: #		DATE:		REMARKS/JUSTIFICATION:	
18) The Sensitive Property identified above is provided by the Federal Government for official purpose only. Any individual who is assigned an item of Sensitive Property is both responsible and personally accountable for the item. "Responsible" means to provide reasonable safeguards against unauthorized use, loss, damage, destruction, or theft. "Accountable" means that the responsible employee shall be obligated to verify the physical location of the item of property or explain where the property is located at any point in time. A Rocky Flats employee who accepts responsibility for Sensitive Property by signing the receipt shall report, within 24 hours of discovery, any instances of suspected or actual misuse, loss, damage, destruction, or theft of this property to their immediate supervisor, in accordance with Plant Policy 8-41. Employee by signing this receipt acknowledges that they have received a copy of policy 8-41. I have read the text above and understand my responsibility for the physical control and accountability for Rocky Flats Sensitive Property and agree that such item assigned to my custody will be returned to the property custodian when a continued need for the property no longer exists (i.e., termination, change in job assignments, etc.)		SS/EMPLOYEE: #		DATE:		21) MATERIAL HANDLING INFORMATION DOT Hazardous Material Yes No If yes, proper shipping name Precautions related to transporting this item(s) described None Yes (if yes describe below) Fragile, Etc.	



DISTRIBUTION: WHITE - PROPERTY MANAGEMENT GREEN - RECEIVER PINK - TRANSPORTATION GOLDENROD - ORIGINATOR ILIAD COPY ATTACHED TO MATERIAL

APPENDIX 2
Page 2 of 3

DISPOSITION DATA

DATE	PDR AND ITEM #	ASSIGNED TO	TOTAL ACQUISITION COST
DISPOSITION OF PROPERTY			
REUTILIZED ON SITE _____ TRANSFER TO DOE _____ TRANSFER TO BELL _____ TRANSFER TO FEDERAL _____ DONATE TO STATE _____ PUBLIC SALE _____ ROT WASTE (RADIOACTIVE) _____ COLD SCRAP _____ ABANDONMENT / DESTRUCTION _____ OTHER _____ LOST OR MISSING _____ TRADE IN _____		* FOR DEPARTMENT USE ONLY * FUND NO. _____ FSC CODE _____ LOCATION * BLDG. _____ BIN _____ RECEIVED BY _____ DATE _____ PARTIAL _____ FINAL _____ SALE PROCEEDS \$ _____ SHIPPED TO _____	
DATE PUT IN EXCESS _____ BY _____ * ACCIDENTAL DEPARTMENT ONLY * ORDER NO. _____ PROPERTY PACKAGED IN _____ DATE NO. _____ QUANTITY NO. _____ SIGNATURE _____ DATE _____ ORIGINAL ACQUISITION COST \$ _____ YEAR ACQUIRED _____ SHIPPING MEMO NO. _____ SIGNATURE _____ DATE _____			
DISPOSITION * THE FOLLOWING ACCOUNTS/ENTRIES HAVE BEEN MADE: PROPERTY MANAGER _____ DATE _____ NRC MANAGER _____ DATE _____ D O E _____ DATE _____			
* FOR CONTAMINATED WASTE ONLY * PROPERTY MANAGER _____ DATE _____ NRC MANAGER _____ DATE _____ D O E _____ DATE _____			
CONTAMINATION LEVELS ALPHA BETA/GAMA Removable (max): _____ Total (max): _____ Gamma Dose Rate @ 30cm: _____ Neutron Dose Rate @ 30cm: _____ Instrumentation used for Removable Contamination: _____ Make/Model _____ Serial # _____ Instrumentation used for Total Contamination: _____ Make/Model _____ Serial # _____ Make/Model _____ Serial # _____			
RADIOLOGICAL SURVEY DATA CONTAMINATION LEVELS ALPHA BETA/GAMA Removable (max): _____ Total (max): _____ Gamma Dose Rate @ 30cm: _____ Neutron Dose Rate @ 30cm: _____ Instrumentation used for Removable Contamination: _____ Make/Model _____ Serial # _____ Instrumentation used for Total Contamination: _____ Make/Model _____ Serial # _____ Make/Model _____ Serial # _____			
COMPUTER SYSTEM SECURITY OFFICER (CSSO) This computer system has met all security Requirements as outlined in the appropriate * CSSO & Computer user's handbook (Classified or Unclassified). CSSO Printed Name & Employee # _____ CSSO Signature _____ TECHNICAL SECURITY COMPUTER RELEASE AUTHORIZATION Release Authorized by appropriate TSJA _____ TSJA Printed Name & Employee # _____ TSJA Signature: _____			

SAMPLE

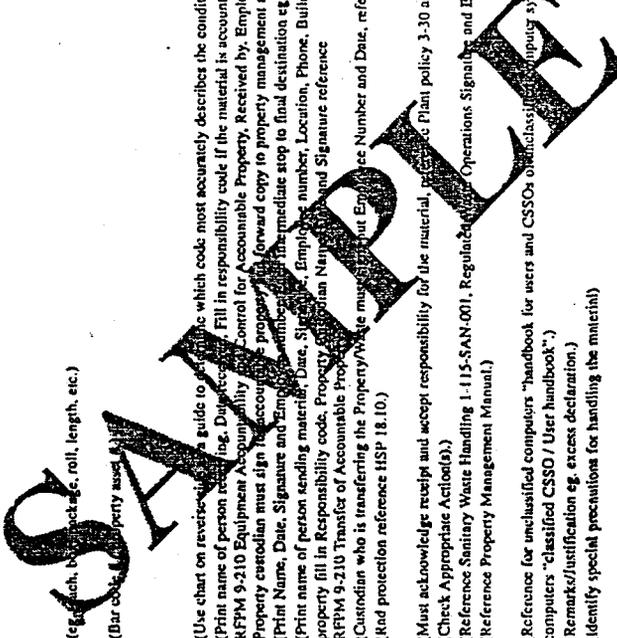
APPENDIX 2
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**MATERIAL TRANSFER AND DISPOSAL
INSTRUCTIONS**

THIS CONSOLIDATED FORM REPLACES THE RIIC, PDR, WPR, TRANSFER TAG, EQUIPMENT STORAGE, UNCLASSIFIED MATERIAL RECEIPT FORM AND THE COMPUTER MOVE FORM

Courier Receipt will serve as the Transfer document for Classified Material.

1. BAR CODE: (PRE-PRINTED ON FORM)
2. QUANTITY
3. UNIT OF MEASURE
4. ITEM(S) DESCRIPTION
5. PROPERTY CONTROL NUMBER
6. SERIAL NUMBER
7. MANUFACTURE
8. MODEL
9. CONDITION CODE
10. TO
11. TEMPORARY CONSIGNEE
12. FROM
13. ONSITE PROPERTY / WASTE TRANSFER
14. RADIOLOGICAL RELEASE
15. END USE RESPONSIBLE EMPLOYEE OF ACCOUNTABLE PROPERTY
16. TRANSFER PROPERTY ACTION
17. LANDFILL AUTHORIZATION NUMBER
18. PU&D ACCEPTANCE NUMBER
19. TRANSPORTATION SERVICE NUMBER
20. COMPUTER SECURITY RELEASE AUTHORIZATION
21. REMARKS / JUSTIFICATION
22. MATERIAL HANDLING INFORMATION



(Use chart on reverse for a guide to the code which most accurately describes the condition of the property.)
(Print name of person receiving, Date received, and Fill in responsibility code if the material is accountable property; reference RPPM 9-210 Equipment Accountability Control for Accountable Property, Received by, Employee number, Building and Room.)
Property custodian must sign for accountable property. Forward copy to property management and sender.
(Print Name, Date, Signature and Employee number, and the immediate stop to final destination eg. B111 to B130 to B080.)
(Print name of person sending material, Date, Signature, Employee number, Location, Phone, Building and Room, if accountable property fill in Responsibility code, Property Custodian Name, and Signature reference RPPM 9-210 Transfer of Accountable Property, Received by, Employee Number and Date, reference HSP 18.10.)
(And protection reference HSP 18.10.)
(Must acknowledge receipt and accept responsibility for the material, reference Plant policy 3-30 and 8-41.)
(Check Appropriate Action(s).)
(Reference Sanitary Waste Handling 1-115-SAN-001, Regulations for Operations Signage, and Employee number.)
(Reference Property Management Manual.)
(Reference for unclassified computers "handbook for users and CSOs on unclassified computer systems" and for classified computers "classified CSO / User handbook".)
(Remarks/justification eg. excess declaration.)
(Identify special precautions for handling the material)

NAMES AND PHONE NUMBERS	
PU&D	2972-4540
COMPUTER SECURITY	7275
TRANSPORTATION	2267-2268
TRAFFIC	76134
TSO	3313
HAZ-WASTE OPERATIONS	2573
RADIATION PROTECTION	4919
LANDFILL	5366
WASTE PROJECTS	5557-21112
RECORDS MANAGEMENT	7697

REFERENCES	
ROCKY FLATS PROPERTY MANUAL	RCPM 9-210
PROPERTY MANAGEMENT MANUAL	1-20000-PMM
HEALTH AND SAFETY PRACTICES MANUAL	HSP 18.10
ROCKY FLATS TRANSPORTATION SAFETY MANUALS	3-30 & 8-41
POLICY MANUAL	3-30 & 8-41
LANDFILL PROCEDURE SANITARY WASTE HANDLING	1-20000-SAN-001
COMPUTER SECURITY MANUAL	

APPENDIX 3
Page 1 of 2

RADIOACTIVE MATERIAL TRANSFER TAG

ITEM(S): _____	Quantity and Description		
TO: _____	Recipient/Custodian Name		
	Organization	Building/Room	Ext./Page
FROM: _____	Sender/Custodian Name		
	Organization	Building/Room	Ext./Page

SAMPLE

RADIOLOGICAL SURVEY DATA

(Contamination Levels)	Alpha	Beta/Gamma
Removable (max):	_____	_____ dpm/100cm ²
Total (max):	_____	_____ dpm/100cm ²
Total (avg):	_____	_____ dpm/100cm ²
Gamma Dose Rate @ 30cm:	_____	_____ mRem/Hour (maximum)
Neutron Dose Rate @ 30cm:	_____	_____ mRem/Hour (maximum)

Instrumentation used for Radiological Surveys

Make/Model: _____	Serial #: _____

Radiological Operations Signature

Employee #

Date

APPENDIX 3

Page 2 of 2

RADIOLOGICAL CONTROL REQUIREMENTS

The above described item(s) are approved for Radioactive Material Transfer
in accordance with 1-P73-HSP-18.10 and the control requirements noted below:

Radiological Survey Requirements (specify frequency):

Packaging Requirements (specify):

Labeling Requirements (specify):

Posting Requirements (specify):

Storage Requirements (specify):

SAMPLE

AUTHORIZATION FOR TRANSFER

Radiological Operations Signature

Employee #

Date

CUSTODIAN RESPONSIBILITY

As Custodian, I am responsible for ensuring that the **Radiological Survey, Packaging, Labeling, Posting, and Storage Requirements** specified in Radiological Control Requirements (above) are implemented and maintained during transfer, storage and utilization of the specified item(s) while on the Rocky Flats Environmental Technology Site.

Signature of Originating Custodian

Employee #

Date

Signature of Receiving Custodian

Employee #

Date

APPENDIX 4

Page 1 of 1

(PRINT OR TYPE)

PROPERTY/WASTE RELEASE EVALUATION REQUEST FORM

Charge Number: * _____

* Denote charge number for preparation of P/WRE. RE will charge approximately 1 hour for each P/WRE

Note: Include only like items with the same history/process knowledge and destination on the same P/WRE request.

Description of Property/Waste To Be Released/Transferred: (List here all available identifying information regarding the items to be released, including the following as applicable: Item Description, Quantity, Manufacturer, Model/Product Number, Container Description, Container Identification Number, Sample Identification Number, WEMS Number, etc.) _____

Property's Current Location: (List Bldg. & Room, or areas applicable.) _____

Property's Destination: (Be specific, list organization and Building for onsite transfer, List Company, Address, City, State for offsite transfers.) _____

Property's New Recipient/Custodian: (For onsite transfer, list new custodian & phone number. For offsite transfer, list company and phone number.) _____

Property History/Process Knowledge: (Be specific. The only way to reduce turn-around time on P/WRE is to provide the maximum amount of property history/process knowledge available.) _____

Has Property/Waste ever been in an RMMA or contacted radioactive materials? (Pen in the proper answer for the material in question.) _____ (Y/N/Unknown)

Sender/Custodian: _____ Emp. No.: _____ Date: _____

Ext: _____ Pager: _____

When completed, deliver P/WRE request form to RE in Bldg. _____ or Fax to: _____

APPENDIX 5

Page 1 of 2

**STREAMLINED REQUIREMENTS
FOR TRANSFER OR RELEASE OF PROPERTY OR WASTE**

Streamlined requirements are delineated below. Contact RE for further clarification, if needed.

General

1. Manuals, books, documentation, paperwork, etc. that have not been produced or used in RMMAs require no PRE, radiological survey, or Material Transfer and Disposal Form for transfers or use, provided that the Sender/Custodian knows from the history of the items that the items have never been in an RMMA.
2. Motor vehicles, emergency response vehicles & equipment, etc. which have not entered RMMAs require no Material Transfer and Disposal Forms or radiological surveys for transport or use on or off Rocky Flats. Radiological surveys and/or a PRE shall be performed prior to unrestricted release of the item.
3. Personal items such as notebooks, papers, flashlights, pens, jewelry, security badges, two-way radios, laptop computers, security force personnel equipment, etc., when exiting areas requiring frisking, as a minimum shall be surveyed in accordance with RCM Article 338.7. This states that they are subject to the same frisking requirements as the person carrying them. Such personal items require no Material Transfer and Disposal Forms, or PREs for transport or use on or off Rocky Flats.
4. Tools and equipment require radiological surveys and/or a PRE to be performed prior to unrestricted release of these items from a radiological area or an RMMA. Tools and equipment include, but are not limited to, hand tools, power tools, toolboxes, etc.
5. The below listed items routinely transferred by Transportation do **not** require Radiation Protection approval and signatures. However, Transportation Department requirements may require the use of the Material Transfer and Disposal Form. Contact Transportation or Traffic for guidance.
 - Drinking water, water bottles or dispensers
 - Recycle paper, cardboard, aluminum cans, plastics
 - Recycle toner cartridges
 - Routine municipal solid waste to the Rocky Flats Landfill

97-DML-000/85

APPENDIX 5

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Specific

1. Radiological Surveys and/or a PRE are performed prior to the unrestricted release of food, food containers, food transport equipment, food warming and preparation equipment, etc.
2. Property returning from off-site Rocky Flats, except for records being permanently transferred to Records Management and property being returned to PU&D for release to the public, requires no PREs or radiological surveys. The sender prepares and forwards to Traffic a Shipping Memo (RF-24320) or other Traffic-required documents. Traffic will prepare a Bill of Lading against which Transportation transfers the property.
3. Property (nonradioactive) being distributed from the Building 130/ 551/552/663 warehouses, new property, property from offsite, or property which has never left these warehouses (or Material Scheduling and Control) or the immediate area surrounding these warehouses require no PREs or radiological surveys.
4. No PRE, radiological survey, or Material Transfer and Disposal Form is required for:
 - Occupational Health biological or medical samples (such as blood, urine, fecal samples, x-rays, etc.), that are routinely transferred off-site by Courier, Federal Express, Transportation, U.S. Mail, or other means.
 - Radiological Health bioassay samples.
 - Incoming/outgoing internal or external correspondence including plant mail, U.S. Mail, Federal Express, etc. containing correspondence produced, utilized, and stored outside of RMMAs.
 - Industrial Hygiene and Safety samples (bulk air or media) which have been generated in buildings/structures identified in Appendix 6, Nonradioactive Sample Release List.
 - Industrial Hygiene samples (such as lead, soil, silica, etc.) originating at the Security Training Firearms Range.
5. Radioactive sources or radiation detection equipment utilized by Radiological Protection or Radiological Assistance Team/Field Sampling Team personnel require no radiological surveys, PREs, or Material Transfer and Disposal Forms (RF-47555) for transport or use on or off Rocky Flats.
6. Pallets transferred from buildings on the Onsite Transfer List do not require an Unrestricted Release/On-Site Transfer Tag or radiological surveys for onsite transfer or onsite or offsite use. Appropriate radiological surveys or a PRE or WRE are performed before unrestricted release of the pallets.
7. Laundered, anti-C clothing may be carried between posted radiological areas without a contamination or radiation survey, or Radioactive Material Transfer Tag (RF-5822.03), provided the clothing is securely packaged in plastic or otherwise contained. The exterior surface of the package (plastic or container) must be marked with a Caution Radioactive Material label or tag prior to movement.

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APPENDIX 6

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NONRADIOACTIVE SAMPLE RELEASE LIST

BUILDINGS/STRUCTURES

96-DMR-000426

96-DMR-000426

96-DMR-000426

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100	373	T706A
111	375	708
T111A	376	709
112	376A	710
T112A, B, and C	377	714
113	381	750
114	427	T750 Trailers
115	439	T760A and B
T115A, B, and C	T439A and D	761
116	440	762
T117A	441	762A
119	T441A	763
T119A and B	T442A	764
120	443	T764A and B
T120A	446	765
121	452	T771 Trailers
T121A	T452 Trailers	773
122 (except for Rm 119)	460	T779A
122S	461	780
123 (Admin areas only)	462	790 (Admin areas only)
124	515	792
T124A	516	792A
125	517	850
127	518	863
128	520	864
129	549	869
130	550	T883 Trailers
T130 Trailers	551	T886 Trailers
131	T551A	888
T131A	552	T891 Trailers
132	553	T893 Trailers
215 A, B, C, and D	554	900
216	555	901
221	556	T904A
223	558	920
224	562	928
226	563	931
227	564	952
240	566	965
331	570	966
T331A	575	967
T331C	661	968
333	662	980
334	663	988
T334B, C, and D	T664 Trailers	989
335	668	990
367	675	992
T371 Trailers	T690 Trailers (except J)	993
372	705	
372A	706	