Date: 4-26-11		CHPRC (	CRITIQUE PE	RSONAL STATEMENT FORM	Revision;
	wb lea	uking	drun		
Orltique Number.					***************************************
INSTRUCTIONS:	**************************************				
In your own words Include the following	, write down w	hat happene	d in the event. incl	ude any information from before the event began un	til after it was over.
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2. Any indications					
3. List any equipm				•	
4. What you were	doing Immedia	tely prior to t	he event	•	
5. Your actions in	response to the	indications			
6. List any Inadequ					1
NOTE: If additiona	l sheets are us	ied sign, dat	e, and record time	on each page. Include critique number and title.	
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Thad	was i	usible	liquid	at base of drum	and on
Pallet.	From	what	I coul		e intection
of H.	dam	404	1	1	0
01 126	CRUCK	<u> </u>	y have	been composited bu	t I coay
not sec	0-14	dana	ige fri	or to the event I	was
looking	for	s da	0		
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(b)(6)	who	then	in turo	notified Rad Con	ond
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training	<u>cna</u>	<del>D ICV</del>	t prad	ices .	
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Completed By:		····		with freedom must	Sh. manage.
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(0)(0)			пинатичного	(b)(6)	- Vivinterary
	idlə Initial, Las			Signature	

Date: <i>O</i> 4-26-24//	CHPRC CRITIQUE PERSONAL STATEMENT FORM	Revision:
Critique Title:		
Critique Number:		
INSTRUCTIONS:		
in your own words, include the following 1. Plant conditions 2. Any indications 3. List any equipm 4. What you were 5. Your actions in 16. List any inadequation of the condition of the conditio	as you know them prior to the event that a problem existed ent malfunctions toing immediately prior to the event esponse to the indications eacies in the procedures, practices, or training esponse to the indications eacies in the procedures, practices, or training esponse to the procedures, practices, or training esponse to the procedures, practices, or training esponse to the procedures, practices, or training esponse include critique number and title.  About 08:30 am when getting up to 2404-wB each withis. I was working down a fush with a list far a withing on a unining list far a man that a wet down was observed in wish a condition of 2404-wB. We check it from a distance and be leaking so we notified Fern and conted Rawwint for the west and of 2404-wB by the roll up.	for shipmont 88 Litdid dcon.
about the	a tamination. At this point we were all out of	and 2404-WK
and got	Surveyed by Radeon We then munned all take 2404-WB Hill they were posted. After doors we	7
we got	directed to so to the process over to go throug	the sam.
Completed By: (b)(6)	12 pt/ /356: am pm (Circle one)  (b)(6)	

Date: 4/26/11	CHPRC CRITIQUE PERSONAL STATEMENT FORM	Revision:
Critique Title:		
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INSTRUCTIONS:		***************************************
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· ·	foing immediately prior to the event	
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	sheets are used sign, date, and record time on each page, include critique number and title.	·
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There	as no problems present-no equipmen	*
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Called Retreive	1 De De Die	auels:
Dializa	a cond were Surveyed by Rots, 4 amply	462 462
4	Doors with building was posted - employed	005
1220ce 7	hen escorted 2336 is to go thru Pem	S==
4/76/	11 13 : 30 am (pm) (Circle one)	
Completed By: (b)(6)	am (pm) (Circle one) (b)(6)	
Name (First, Mic	Idle Initial, Last) Signature	

intique Number:  NSTRUCTIONS:  1 your own words, write down what happened in the event. Include any information from before the event began until after it was over.  Plant conditions as you know them prior to the event  Any indications that a problem existed.  List any inactives as post known them prior to the event  Any indications that a problem existed.  List any inactives in manufactory prior to the event  Your actions in response to the indications.  List any inactives in the procedures, practices, or training  OTE: If additional sheets are used sign, date, and record time on each page. Include critique number and title.  ON(6)  Lice Post Post Post Post Post Post Post Post	Dete: 4/96/II	CHPRC CRITIQUE PERSONAL STATEMENT FORM	Revision:
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nyour own words, write down what happened in the event. Include any information from before the event began until after it was over.  Plant conditions as you know them prior to the event Any includes that a problem existed.  Let any equipment malfunctions  What you were doing immediately prior to the event  Your actions in response to the Indications.  Let any inadequaties in the procedures, practices, or training  OTE: If additional sheets are used sign, date, and record time on each page. Include critique number and title.  ON(6)  Lice Madria Proceeding my procedure to the Control of the control o	Oritique Number:		
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instructed them to gather postings (HR+ HCA/ARA as per CadCar) and get them hang. The (b)(6)  Went  1 126/11 -13:00 am (pm) (Circle one)	the build	inco Minutes let + they was all some	
and get them hard. The (b)(6)  4/126/11 +3:00 am (pm) (Circle one)  completed By:  0)(6)	instructe	, Jane of them	A ac
ompleted By: 0)(6)	RadCir) an	d set them horg. The (b)(6)	
Name (First, Middle Initial, Last) Signature	<u> </u>	A Company (Circle one)	T
	Name (First, Middls	Initial, Last) Signature	

Page 1 of 2 A-8004-899 (REV 1)

Date: 4/26/11	CHPRC CRITIQUE PERSONAL STATEMENT FORM	Revision:
Oritique Title:		
Oritique Number:		
INSTRUCTIONS:		
include the following include the following in Plant conditions in a second construction in the following in	as you know them prior to the event hat a problem existed	doors character the ched (b)(6)  - process At that
4 / 2(e ) Completed By: (b)(6)	1 1:00 am (Circle one)	

Page 2 08 2

Date: 4-26-2011	CHPRC CRITIQUE PERSONAL STATEMENT FORM	Revision:
Critique Title:		
Critique Number:		
INSTRUCTIONS:		# 14.25 MARINE WAR AND THE PARTY OF THE PART
<b>Y</b>	write down what happened in the event, include any information from before the event began until a	iter it was over
Include the following 1. Plant conditions	as you know them prior to the event	
	that a problem existed	
3. List any equipme		-
4. What you were o	doing immediately prior to the event	
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	acles in the procedures, practices, or training	
NOTE: If additional	I sheets are used sign, date, and record time on each page. Include critique number and title.	
on 4-26	-2011 I was assigned to work in the (b)(6)	200
wast /WRA	P. Plant conditions were normal and in operations m	ode. A+
approximt/	y 9:30 am [ was in MO44E (b)(6)	
	when I received a radio cell from op	exation
(b)(6)	in 2404 WB Open	Ī
arrel e	wes shown a drom (0062288) with clear liquid	į.
ł	· rolled edge and pooling one slat of the pullet	
(b)(6)		
Jensitity,	(b)(6)	
(b)(6)		
		Andrew Control
(b)(6)	All' I I I I I I I I I I I I I I I I I I	
1 (0.	All personnel exitel 2404 wB and were	Surveyor
	except for myself. I had 200 apm/direct and was	gloved
up and 5	ent to Decon	
T /2c Completed By:	12011 16:30 (Sircle one)	
(b)(6)	(b)(6)	y and the second
Name (First, Mi	idelle Initial, Last)	
4		

my.

Date: - 4-26-7+	CHPRC CRITIQUE PERSONAL STATEMENT FORM Revision:
Critique Title:	WB LEAKING DRUM- PONTHANINATION
Critique Number	
INSTRUCTIONS:	
	write down what happened in the event, Include any Information from before the event began until after it was over.
include the following	
	as you know them prior to the event
•	that a problem existed
3. List any equipme	
	doing immediately prior to the event
	response to the indications racies in the procedures, practices, or training
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	i alieats are used sign, date, and report the on each page, include chique number and the.
(b)(6)	
(b)(6)	
(0)(0)	reformed of potential issue.
(b)(6)	had a grant of all and a
	INformed of forential 1880E.
(b)(6)	palled, ULA RADIO, (b)(6)
(b)(6)	
	AND RAD CON.
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31-165-ju belok elisti isti isti isti olek elek elek elek elek elek elek elek	
1126	111 ~ 08:30 (on) pm (Circle one)
Completed By	(b)(6)
(b)(6)	
Name (First, M	iddle Initial, Last)

Date:	CHPRC CRITIQUE PERSONAL STATEMENT FORM	Revision:
Critique Title:  Critique Number;		
INSTRUCTIONS:		
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Deums	IN RW. 8. CHE STOPPED AND SAID (b)(6) SPOT	,
	DE THE BOTTOM OF THE DRUM. (b)(6)  TO SURVEY THE DRUM AND ALSO CONN  ALL (b)(6)  HAD MOVED AWAY FROM  AND THEN EXITED WHEN THE SURVEY  CONFORM WATTON, WE LEFT WA TO THE W	ACTED
나 / 2 (e / completed by: b)(6)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Name (First, Micro	lie Initial, Last) Signature	***************************************

### **CHPRC CONDITION REPORT FORM**

Status: Corrective Action CR NUMBER: CR-2011-1577

Issue Identification	n and Processing		•
Initiator:		Initiating Document:	Date Identified:
Mellgren, Shawn O		N/A	4/28/2011
Title of Issue:			
Response To Radioi	ogical Spill in 2404 WB Was Less	Than Adequate	
RL-CHPRC-WRAP-2	om a TRU waste drum occurred in 2011-0002). This CR addresses iss but that require specific actions to	ues that were identified a:	ing (Occurrence Report El s extraneous to the main
Contrary to training to detected on wrist Decontamination Ro	he contaminated did not recei /paim. The whole body survey was om.	ve a whole body survey a not performed until the	t the time contamination w was moved to the
t decontamination ma	ve, neither nor the attending terial, therefore required to be retained. 9: Save all decontamination mater	_recognized that the glov	e was personnel aterials is required by PR
Requirements Not Met: (	Orders, Requirements,	Responsible Project/Prog	T P 25 PP 2
Procedures)			MANAGEMENT PRO
PRC-PRO-RP-40067	7, 4.4.9		
Date Submitted:		Other Related Document	
5/11/2011		CR-2011-1403 & EM- 0002	-RL-CPRC-WRAP-2011-
Perform Operational Initiator Comments:	ve Actions: Drill(s) at WRAP with ensuring SW	IMS is demonstrated. Jor	nathan Ullman as actionee
Oldfield			
Associated Files		inner men en men men het met de sent en	
<u> </u>		***************************************	
Issue Significance	, Analysis, Extent of Condi	tion. Action Assign	ment, and Closure
Significance Level:	Date Submitted to Responsible	Date CAP was appro	
Track Until Fixed	Manager:	Manager/Delegate:	
	5/23/2011 - Oldfield, Brian	6/28/2011 - Oldfie	ag, Brian
ORPS	Compliance Determination	NTS	
PAAA Compliance Deter	mination Number:		·
CHPRC-PAAA-2011			4
Significant Level Justific			**************************************
1	eened as a Track Until Fixed (TUF)		
This condition is scre  As stated in the desc significant) and is cur condition represents was identified as extr	eription of issue, the actual event is mently undergoing a root cause and a specific non compliance with the raneous to the main sequence of events to address. As such, the screen	documented in CR-2011- alysis and extent of condit requirements of PRC-PR vents (determined from ro	lon review. CR-2011-1577 O-RP-40067, 4.4.9., that of cause analysis), but wil

Date Assign	ned:	
5/23/201	5/23/2011	
Analysis Co 6/27/201	ompletion Date:	
<u> </u>		
s cedure Use erations		
A		
ment		
surveys are performe	Due Date: 8/1/2011	
y survey perfoemanc	e and operational drill numbers.	
The state of the s	Completed Date:	
	Action Approval Date:	
2 Mellgren, Shawn O  Action Statement: Brief 90% of WRAP RCTs and all RadCon FLMs on need to recognise and retain all personnal decontamination materials.  Due I		
7 79 79 79 79 79 79 79 79 79 79 79 79 79	Completed Date:	
	Analysis Conference of the control o	

### **CHPRC CONDITION REPORT FORM**

Status: Corrective Action CR NUMBER: CR-2011-1606

Causal Analysis Method Used:

Issue Identification	and Processing		**************************************		
	Tunu i rocossing		D.A. Ida-AMI		
Initiator: Wegner-Jorgensen,	Anne L	Initiating Document:	Date Identified: 5/12/2011		
Title of Issue:			······································		
Evaluation of Drums 2404WB	that are in the same HEDL waste s	tream as drum 0062288 v	which has breached in		
Description of Issue:					
RTR has been perform plastic liners are intal since February 2011	drums in the same HEDL waste str med on all of the parent drums and ct for all of the parent drums. Two of into 4 "daughter" drums that are all sughter drums have been RTR'd. D a pH<2.	I the LDA scans are very s of these parent drums hav located in 2404WB. One	similar. It appears that the e been repacked at WRAP of these is the breached		
Requirements Not Met: (	Orders, Requirements,	Responsible Project/Prog	ram:		
Procedures)	·	WASTE AND FUELS	MANAGEMENT PRO		
Date Submitted: 5/16/2011		Other Related Documents			
Immediate Action(s) Tak	en:				
RTR has been perfor plastic liners are inta	med on all of the parent drums and ct for all of the parent drums. 00622	I the LDA scans are very s 288 has been over packed	similar. It appears that the I into 0059303 on 5/3/2011		
Recommended Corrective	e Actions:	***************************************			
of 2404WB. Place pa Determine appropria	r tracking only. Perform a visual for arent and daughter drums on spill p te hazard lables and apply.	integrity of related drums allets. Add drums to the A	located inside and outside CMP as appropriate.		
Initiator Comments:			No.		
for tracking only Ed McCarthy	1				
Associated Files 2404WBreponse.doc CRRSReportAnalysis Emailsassociatedwitt ExtentofConditionsS: HEDLDrums.pdf	x s-CR-2011-1606 doc nlabelingofHEDLdrumsandplaceme 3000wastestreams_review_06_20	entonspillpalletsorinsecon 11jmk.xlsx	darycontainment.doc		
		***			
Issue Significance	, Analysis, Extent of Condi	tion, Action Assignn	nent, and Closure		
Significance Level:	Date Submitted to Responsible	Date CAP was approv	ed by Responsible		
Track Until Fixed	Manager: 5/16/2011 - McCarthy, Edward	Manager/Delegate: T 6/21/2011 - Stratm	na Cinda		
***	5/10/2011 - McCaittly, Edward	0/21/2011 - Straum	ian, Cindy		
ORPS	Compliance Determination	NTS			
Significant Level Justific					
Screened as Track U					
the stated conditions	ntify a compliance issue, but was in . As a TUF, this CR will be the docu	istead written to track acti ument that tracks those ac	ons to closure that address tions.		
DBW					
Assigned To:					
·	Bannister, Roland J 5/16/2011				
Extent of Conditions:					

Analysis Completion Date: 6/21/2011

<b>.</b>	
Analysis Res	
See attac	hed report (CRRS Report Analysis CR-2011-1606)
Trend Codes	*
MS06 - H WM08 - F	azard Identification/Analysis Radioactive and Hazardous Waste Management
Cause Codes	
A1B3C01 A4B1C01 A2B5C04	<ul> <li>Attention was given to wrong issues</li> <li>Design / documentation not complete</li> <li>Management policy guidance/expectations not well-defined, understood or enforced</li> <li>Product acceptance requirements LTA</li> <li>Signs to stop were ignored and step performed incorrectly</li> </ul>
PAAA/851 Ci	lations:
ISMS:	
CF-C - De	entify and Analyze the Hazards evelop and Implement Hazard Controls erform Work within Controls
Corrective	e Action Items
Action #:	Actionee:
1	Fulton, Timothy J
Action States	nent:
absorbed.	the 4 daughter drums. Ensure all liquids are neutralized and Prevent waste matrix from coming in direct contact with the n. PRIOR TO REPACK:

Due Date:

8/24/2011

a. RTR the 4 daughter drums.

operation performed on the 4 daughter drums.

workforce.

Closure Requirements:

b. Revise procedures regarding the preparation and dissemination of repack instructions to ensure the preparatory work prior to repack is comprehensive and robust. This includes the Pre-Job meetings.

c. Revise the procedures for repacking and treatment of waste to increase controls and minimize inappropriate reliance on the repack

Action Taken:		Completed Date:
Action Approve	d By:	Action Approval Date:
Action #:	Actionee:	
2	Bannister, Roland J	
similar waste	nt: stabases to establish if there are other HEDL drums with a e matrix. Evaluate if these should be placed on spill pallets ary containment.	Due Date: 6/30/2011
Closure Require Extent of Co configuration	nditions report regarding other HEDL drums with a similar w	reste matrix and packaging
CPRC-WRA Waste Stream titled "Other drums have	ners are addressed in "Extent of Condition Review for RL- P-2011-0002" (attached) as part of the S3000 RLM325 m. The list of HEDL containers is attached in document Suspect HEDL Drums"(HEDLDrums.pdf). All 17 HEDL been labeled and placed on spill pallets or within ontainment. Attached emails refer.	Completed Date: 6/23/2011
Action Approved Stratman, Ci		Action Approval Date: 6/28/2011

1. Repack data sheet (DMS Waste Container Inventory (WCI) screen) created to describe actual repack

EM-RL--CPRC-WRAP-2011-0002

**UPDATE** 

## Occurrence Report After 2003 Redesign

WASTE RECEIVING & PROCESSING FAC	CILIT
(N	ame of Facility)
Nuclear Waste Operations/Disposal	
(F	acility Function)
Hanford Site	CH2MHILL Plateau Remediation Company
(Site)	(Contractor)
Name: McCarthy, Edward T	
Title: Director. TRU Project	Telephone No.: (509) 373-0044
(Facilit	y Manager/Designee)
Name: POOLE, M ELIZABETH	
Title:	<b>Telephone No.:</b> (509) 373-0522
(Orig	inator/Transmitter)
Name:	Date:
(Author	rized Classifier (AC))

1. Occurrence Report Number: EM-RL--CPRC-WRAP-2011-0002

Contamination Found on Waste Drum (ARRA)

2. Report Type and Date: UPDATE

	Date	Time
Notification:	04/27/2011	18:28 (ETZ)
Initial Update:	06/12/2011	12:22 (ETZ)
Latest Update:	06/12/2011	12:22 (ETZ)
Final:		(ETZ)

3. Significance Category: 2

4. Division or Project: Waste and Fuels Management Project

5. Secretarial Office: EM - Environmental Management

6. System, Bldg., or Equipment: 2404WB

7. UCNI?: No

8. Plant Area: 200 West

9. Date and Time Discovered: 04/26/2011 09:00 (PTZ)

10. Date and Time Categorized: 04/26/2011 11:30 (PTZ)

11. DOE HQ OC Notification:

Date	Time	Person Notified	Organization
NA NA	NA	. NA	NA

#### 12. Other Notifications:

Date	Time	Person Notified	Organization
04/26/2011	09:00 (PTZ)	AS Mortensen	WRAP
04/26/2011	12:17 (PTZ)	S Baker	MSA ONC
04/26/2011	11:55 (PTZ)	JE Trevino	DOE RL

#### 13. Subject or Title of Occurrence:

Contamination Found on Waste Drum (ARRA)

#### 14. Reporting Criteria:

6B(2) - Identification of onsite radioactive contamination greater than 100 times the total contamination values in 10 CFR 835 Appendix D and that is found outside of the following locations: Contamination Areas, High Contamination Areas, Airborne Radioactivity Areas, Radiological Buffer Areas, and areas controlled in accordance with 10 CFR 835.1102(c). For tritium, the reporting threshold is 100 times the removable contamination values in 10 CFR Part 835, Appendix D.

#### Notes:

- (a) This does not apply to contamination from residual radioactive material meeting applicable DOE-approved authorized limits.
- (b) This also does not apply to legacy radioactive contamination, which will be reported under a separate criterion below.
- (c) The exclusion from reporting contamination in a Radiological Buffer Area applies only when the area has been established next to a Contamination Area, High Contamination Area or Airborne Radioactivity Area and its exit requirements have adopted guidance from Article 338.2 of DOE-STD-1098-99.

15. Description of Occurrence:
While inspecting drums in preparation for a waste shipment, a WRAP (b)(6)
b)(6) and (b)(6) identified a drum in the 2404WB Building with
fluid toward the bottom of the drum, on the pallet beneath it, and on the floor. The amount of fluid v
estimated to be twenty milliliters. Surveys indicated greater than 1,200,000 disintegrations per minu
(dom) nor 100 continuous agreed (100 pm2) direct of the same of the North Continuous per minute.
(dpm) per 100 centimeters squared (100 cm2) direct alpha contamination. No beta gamma
contamination was identified. No air sampling was in place at the time of discovery. At the time of t
event, the area was posted as a Radiation Area(RA)/ Radioactive Material Area (RMA).
16. Is Subcontractor Involved? No
17. Operating Conditions of Facility at Time of Occurrence:
Normal Operations
18. Activity Category:
03 - Normal Operations (other than Activities specifically listed in this Category)
19. Immediate Actions Taken and Results:
Downwall left the building and the man was made down TC 1 Ct. 4
Personnel left the building and the area was posted as a High Contamination Area (HCA), Airborne
Radioactivity Area (ARA) and a Beryllium Controlled Area (BCA). The Incident Command Post with
staffed and determined that an emergency level had not been reached. Co-located facilities were not of the event.
Pomornal modiclesical annual materials of the control of the contr
Personnel radiological surveys were conducted. Exit surveys of the (b)(6) revealed a non-reportable 1 of contamination (3,205 dpm/100 cm 2 alpha) on the individual's wrist and palm. Nasal smears were conducted of personnel with negative results. Decontamination procedures were implemented. All o personnel in the building completed a whole body survey with no contamination found.
Recovery planning actions were commenced.
20. ISM:
21. Cause Code(s):
22. Description of Cause:
The interpretation of the contract of the cont

### 23. Evaluation (by Facility Manager/Designee):

Update 6/12/2011 The final date for this occurrence report will be extended to July 1, 2011. This extension allows for review and approval of the draft causal analysis by Waste and Fuels Management Project senior management and CHPRC senior management. The DOE Facility Representative was notified of this extension on June 12, 2011.
24. Is Further Evaluation Required?: Yes
If YES - Before Further Operation? No
By whom? WRAP
By when? 06/16/2011
25. Corrective Actions Local Tracking System Name: Corrective Action Management
26. Lessons Learned:
27. Similar Occurrence Report Numbers:
28. User-defined Field #1:
29. User-defined Field #2:
30. HQ Keyword(s):
01IInadequate Conduct of Operations - Safety System Actuation/Evacuation 05IMechanical/Structural - Container/Package Failure 06BRadiological - Facility/Equip/Site Contamination 06CRadiological - Skin Contamination 12MEH Categories - Radiological Control (Other) 13HManagement Concerns - American Recovery and Reinvestment Act (ARRA) 14LQuality Assurance - No QA Deficiency
31. HQ Summary:
On April 26, 2011, while inspecting drums in preparation for a waste shipment, a WRAP (b)(6)  [(b)(6)] and a (b)(6) identified a drum in the 2404WB  Building with fluid on the bottom of the drum, on the pallet beneath it, and on the floor. The drum was

located in a posted Radiation Area / Radioactive Material Area. The amount of fluid was estimated to be 20 milliliters. Radiological surveys indicated greater than 1,200,000 dpm/100cm2 direct alpha contamination (no beta-gamma). No air sampling was in place at the time of the discovery. Personnel left the building and the area was posted as a High Contamination Area, Airborne Radioactivity Area, and a Beryllium Controlled Area. The Incident Command Post was staffed and it was determined that an emergency level had not been reached. Co-located facilities were notified of the event. Personnel radiological surveys were conducted. Exit surveys of the RCT revealed 3,205 dpm/100cm2 alpha (a non-reportable level) on the (b)(6) wrist and palm. Nasal smears were conducted of personnel with negative results. Decontamination procedures were implemented. All other personnel in the building completed a whole body survey with no contamination found. Recovery planning actions were started.

32.	DOE	Facility	Representative	Input:
-----	-----	----------	----------------	--------

33. DOE Program Manager Input:

Survey Date: 05/10/2011

## CH2M HILL Plateau Remediation Company IH WBGT Monitoring Field Log.

Survey ID: 11-23172 - 2404WB Recovery

Survey I	D: 11-23172	Survey D	ate: 05/10/2011					
Sample I	Survey Title: 2404WB Recovery Sample Plan: N/A WO/Procedure:							
Field Wo	Field Work Supervisor: Campbell, Robert A Phone: (509)373-9599 Cell Phone: (b)(6)  Signature/Date:							
Commer	Signature.cate:Comments:							
,			·					
WBGT In Reading		7 - QUESTemp 10 Quest Zone: 200W-General → Outdoors:						
Number	Time	Activity/Location	WBGT					
1	1054	2404WB Recovery	65.3 °F					
2	1126	2404WB Recovery	65.7 °F					
3	1155	2404WB Recovery	66.9 °F					
4	1440	2404WB Recovery	67 °F					
5		·	***************************************					
6	:							
7								
8								
9		·:-						
10								
11								

Survey Date: 05/11/2011

## CH2M HILL Plateau Remediation Company IH WBGT Monitoring Field Log

Survey ID: 11-24014 - 2404 WB Recovery

Survey ID: 11-24014 Survey Date: 05/11/2011 Survey Title: 2404 WB Recovery Sample Plan: WO/Procedure: Field Work Supervisor: Campbell, Robert A Phone: (509)373-9599 Cell Phone: (b)(6)Signature/Date: Comments: WBGT Instrument: 3228 - hs-32 Metrosonics Outdoors: Tyes TNo Zone: 200W General Reading Time Activity/Location WBGT Number 1000 2404WB Recovery 64.9 °F 2 1030 2404WB Recovery 64.5 °F 3 1100 2404WB Recovery 64.5 °F 1145 2404WB Recovery 67.4 °F 6 8 10 11

Survey Date: 05/12/2011

## CH2M HILL Plateau Remediation Company IH WBGT Monitoring Field Log

Survey ID: 11-24015 - 2404 WB Recovery

r			
Survey I	D: 11-24015	Survey D	ate: 05/12/2011
Survey T Sample I WO/Prod	Plan: N/A	3 Recovery	
Field Wo	ork Supervisor: (	Campbell, Robert A Phone: (509)373-9599 Cell Phone: (	b)(6)
		Signature/Date:	
Commer	nts:		
WBGT In	strument: 1167	' - QUESTemp 10 Quest Zone: 200W General Qutdoors:	□Yes□No
Reading Number	Time	Activity/Location	WBGT
1	1004	2404WB Recovery	57.2 °F
2	1030	2404WB Recovery	57.7 °F
3	1430	2404WB Recovery	61.7 °F
4	150 <b>0</b>	2404WB Recovery	64.5 °F
5			
6			
7			
8			
9			
10			
11			

Survey Date: 05/19/2011

## CH2M HILL Plateau Remediation Company IH WBGT Monitoring Field Log

Survey ID: 11-24073 - 2404 WB Recovery

Survey	ID: 11-24073	Survey D	ate: 05/19/2011
Survey T Sample WO/Prod	Plan: N/A	B Recovery	
Field W	ork Supervisor:	Campbell, Robert A Phone: (509)373-9599 Cell Phone: (b) Signature/Date:	(6)
Comme	nts:		
	strument: 117(	- QUESTemp 10 Quest Zone: 200W General Outdoors:	□Yes□No
Reading Number	Time	Activity/Location	WBGT
1	0942	2404WB Recovery	61,5 °F
2	1018	2404WB Recovery	63.3 °F
3	1055	2404WB Recovery	64 °F
4			
5	**************************************		
6	MARANE CREATE CASE PLANE TO A COMMUNICATION OF THE CASE OF THE CAS		
7			
8	V & M. 1994		
9			
10			
11			

# CH2M HILL Plateau Remediation Company IH Surface Sampling Field Log

Survey ID: 11-22990 - WRAP - 2404WB Recovery Plan; SCBA bottles

Survey Date: 05/01/2011

Survey ID: 11	-22990	Map: No			Survey Date:	05/01/2011
Survey Title:	WRAP - 2404WB Red SCBA bottles	covery Plan;				
Sample Plan: WO/Procedure:	IHSP-0001 - Berylliun n/a	n Characteriz	ation			
Job Contact:	Sweesy, Jason J	Phone:	(509)373-1304 Signature/Date:	Cell Phone	(b)(6)	
Comments:				·····		
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

Sample Number	Dimensions	Location	Specific Location	Location Details
11-22990- 001	100 cm2	2404WB	SCBA battle	SCBA gear serial number #2016
11-22990- 002	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #2180
11-22990- 003	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #2150
11-22990- 004	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #2067
1 <b>1-22990-</b> 005	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #SP001
11-22990- 006	100 cm2	2404WB	SCBA bottle	SCBA gear-serial number #2058
11 <b>-</b> 22990- 007	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #2190
11-22990- 008	100 cm2	2404WB	SCBA pottle	SCBA gear serial number #2109
11-22990- 009	100 cm2	2404WB	SCBA bottle	SCBA:gear serial number #2104
11 <b>-2</b> 2990- 010	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #2054
11-22990- 011	100 cm2	2404WB	SCBA bottle	SCBA-gear-serial number; #2097
11-22990- 012	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #2047
11-22990- 113	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #2187
11-22990-	100 cm2	2404 <b>V/</b> B	SCBA bottle	SCBA gear serial number #2069

11-22990- 017	Blank San	nple		
11-22990- 016	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #SP011
11-22990- 015	100 cm2	2404WB	SCBA bottle	SCBA gear serial number #2205
014				

Survey Date: 05/01/2011

### CH2M HILL Plateau Remediation Company IH Sampling Field Log

Survey ID: 11-22991 - WRAP - 2404WB Recovery Plan; East Door

Survey ID: 11-22991 Survey Date: 05/01/2011 Survey Title: WRAP - 2404WB Recovery Plan; East Door Sample Plan: IHSP-0001 - Beryllium Characterization WO/Procedure: n/a (b)(6)Job Contact: Sweesy, Jason J Phone: (509)373-1304 Cell Phone: Signature/Date: Engineering/Administrative Controls: Comments: (Describe activity within the farm during sampling period.)

Inst ID: 1409 Calibration Device: 1532 Cal Unit of Meas: I/min Sample Usage: Area
Sample ID: 11-22991-1-A1 Sampling Media: 37 mm MCE Filter (general)  Flow Rate: 3.978 I/min Time On: Post Use Flow Rate:
Sample ID: 11-22991-1-A2 (Blank) Sampling Media: 37 mm MCE Filter (general)
Zone: WM Zone Location: 2404WB Specific Location: East door in CA

Survey Date: 05/03/2011

### CH2M HILL Plateau Remediation Company IH Surface Sampling Field Log

Survey ID: 11-23063 - WRAP - 2404W8 Recovery Plan; Step-off pad

Survey ID: 11-23063 Map: No Survey Date: 05/03/2011 WRAP - 2404WB Recovery Plan; Survey Title: Step-off pad Sample Plan: IHSP-0001 - Beryllium Characterization WO/Procedure: n/a (b)(6)Job Contact: Sweesy, Jason J Phone: (509)373-1304 Cell Phone: Signature/Date: Comments: Sampling Media - Required Analysis: Ghost Wipe (Env Exp) Benjilium Sample Dimensions Location Specific Location **Location Details** Number 11-23063-100 cm2 2404WB step-off pad post Team 1 exit. Left side 001 11-23063-100 cm2 2404WB post Team 1 exit; center step-off pad 002 11-23063-100 cm2 2404WB step-off pad post Team 1 exit; right side 003 11-23063-Blank Sample 004

007

Survey Date: 05/04/2011

### CH2M HILL Plateau Remediation Company IH Surface Sampling Field Log

Survey ID: 11-23079 - WRAP - 2404WB Recovery Plan; SCBA bottles

Survey ID: 11-23079 Map: No Survey Date: 05/04/2011 WRAP - 2404WB Recovery Plan: Survey Title: SCBA bottles Sample Plan: IHSP-0001 - Beryllium Characterization WO/Procedure: n/a (b)(6)Job Contact: Call Phone: Sweesy, Jason J Phone: (509)373-1304 Signature/Date: Comments: Sampling Media - Required Analysis: Ghost Wipe (Env Exp) Beryllium Sample **Dimensions** Location Specific Location Location Details Number 11-23079-100 cm2 2404WB SCBA bottle SCBA bottle #2002 001 11-23079-100 cm2 2404WB SCBA bottle SCBA bottle #2091 002 11-23079-100 cm2 2404WB SCBA bottle SCBA bottle #2189 003 11-23079-100 cm2 2404WB SCBA bottle SCBA bottle #2099 004 11-23079-100 cm2 2404WB SCBA bottle SCBA bottle #2208 005 11-23079-100 cm2 2404WB SCBA bottle SCBA bottle #2134 006 11-23079-Blank Sample

## CH2M HILL Plateau Remediation Company IH Surface Sampling Field Log

Survey ID: 11-23198 - 2404 WB Recovery Laundry

Survey Date: 05/09/2011

Survey ID: 11	-23198	Map: No		Sı	ırvey Date:	05/09/2011
Sample Plan:	2404 WB Recovery La N/A 2404 WB Recovery Pl	-			71-1/C	When must consider the street of the surface of the
Job Contact:	Campbell, Robert A	Phone:	(509)373-9599 Signature/Date:	Cell Phone:	(b)(6)	**************************************
Comments: samples taken 0	5/09/2011 and 05/10/20	)11	eranes source en			

Sampling M	Sampling Media - Required Analysis: Ghost Wipe (Env Exp) Beryllium.								
Sample Number	Dimensions	Location	Specific Location	Location Details					
11-23198 <b>-</b> 001	100cm2	200W General	2404 WB	clothes in bag dated 05/06/2011					
11-23198- 002	100cm2	200W General	2404 WB	bag itself dated 05/06/2011					
11-23198- 003	100cm2	200W General	2404 WB	clothes in bag dated 05/09/2011					
11-23198- 004	100cm2	200W General	2404 WB	bag itself dated 5/09/2011					
11-23198- 005	100cm2	200W General	2404-WB	clothes in bag dated 05/09/2011					
11-23198- 006	100cm2	200W General	2404 WB	bag itself dated 05/09/2011					
11-23198- 007	100cm2	200W General	2404 WB	clothes in bag dated 05/06/2011					
11-23198- 008	100cm2	200W General	2404 WB	bag itself dated 05/06/2011					
11-23198- 009	100cm2	200W General	2404 WB	clothes in bag dated 05/09/2011					
11-23198- 010	100cm2	200W General	2404 WB	bag itself dated 05/99/2011					
11-23198- 013	100cm2	200W General	2404 WB*	clothes inside:bag:dated 05/10/2011					
11-23198- 014	100cm2	200W General	2404 WB	bag itself dated 05/10/2011					
11-23198- 015	100cm2	200W General	2404.WB	clothes.inside:bag:05/10/2011					
11-23198- 016	100cm2	200W General	2404 WB	bag;itself dated 05/10/2011					

11-23198- 011	Blank Sample
11-23198- 012	Blank Sample

# CH2M HILL Plateau Remediation Company IH Surface Sampling Field Log

Survey ID: 11-23283 - 2404WB Recovery Laundry

Survey Date: 05/11/2011

Survey ID:	11-23283		Map: No		Su	rvey Date:	05/11/2011
Survey Title: Sample Plan: WO/Procedui	: N/A	B Recovery La	undry				
Job Contact:	: Campbe	ell, Robert A	Phone:	 (509)373-9599 Signature/Date	Cell Phone:	(b)(6)	
Comments:		<del></del>					<u> </u>
Sampling Me	dia - Requi	red Analysis:	Ghost Wipe (	(Env Exp) Beryllium	·····		
Campia	Dimensions	T		Specific Location	Loc	ation Details	,
11-23283- 001	100cm2	200W Genera	al 2	2404 WB	clothes inside b	ag 05/11/20	)11
11-23283- 002	100cm2	200W Genere	al 2	404 WB	bag itself 50/11	/2011	
11-23283- 003	100cm2	200W Genera	al 2	404 WB	clothes inside b	ag 05/12/20	111
11-23 <b>2</b> 83- 004	100cm2	200W Genera	al 2	404 WB	bag itself 05/12	/2011	
11-23283- 005	100cm2	200W Genera	al 2	404 WB	clothes insside	bag 05/12/2	:011
11-23283- 006	100cm2	200W Genera	al 2	404 WB			

### CH2M HILL Plateau Remediation Company IH Surface Sampling Field Log

Survey ID: 11-23249 - 2404 W8 Recovery West end samples

Survey Date: 05/16/2011

Survey ID:	11-23249	N	ap: No		Survey Date: 05/16/2011
Survey Title: Sample Plan WO/Procedu	samples : N/A	B Recovery Wes	end		
Job Contact	t: Campbe	Campbell, Robert A		(509)373-9599 Signature/Date:	Cell Phone: (b)(6)
Comments:					
Samnlina M	adia - Rancii	ad Analysis' G	hosi Wine (	Env Exp):Berylliam:	
Sample Number	Dimensions	Location		Specific Location	Location Details
11-23249- 001	100cm2	200W General	2	404-WB	Survey point 133 row 34
11-23249- 002	100cm2	200W General	24	404 WB	survey point 159 row 28
11-23249- 003	100cm2	200W General	24	404 WB	0062288 row 24 overpacked problem drum
11-23249- 004	100cm2	200W General	2	404 WB	0061308 row 24 sister of problem drum
11-23249- 005	100cm2	200W General	2.	404 WB	Survery point 123 row 18
11-23249- 006	100cm2	200W General	2	404 WB	Hot pallet row 19:
11-23249- 007	100cm2	200W General	2.	404 WB	Survey point 274 row 23
11-23249- 008	100cm2	200W General	2	404 WB-	0067469 row 27
11-23249- 009	100cm2	200W General	2	404 WB	0069944 row 31
11-23249- 010	100cm2	200W General	2	404 WB	survey point 329 row 39
11-23249- 011	Blank Sam	ple	<u> </u>		
11-23249- 012	Blank Sam	ple	****		. "

Survey Date: 05/17/2011

## CH2M HILL Plateau Remediation Company IH Surface Sampling Field Log

Survey ID: 11-23277 - Ghost Wipe 2404 be sample

Survey ID:	11-23277	Ma	p: No			Survey Date:	05/17/2011
Survey Title: Sample Plan WO/Procedu	: N/A	Vipe 2404 be samp	ole				
Job Contact	t: Carter,	Steve B Pho	ne: (509):	372-3969	Cell Phone:	(b)(6)	
				Signature/Dat	97		
Comments:							
•		•			6		
Sampling Me	iuneS - sibe	red Analysis: Gh	net Wine (Env	Evnt Rarvillium		<del></del>	
Sample	Dimensions					2 Slam Panelli	
Number				ecific Location		Location Details	} 
11-23277- 001	100cm2	2404WB	East	end	drum 00612	231	
11-23277- 002	100cm2	2404WB	East	end	Forklift 40-7	75-04878	
11-23277- 003	100cm2	2404WB	East	end	floor crate		
11-23277- 004	100cm2	2404WB	East	end	south east	spill	
11-23277- 005	100cm2	2404WB	East	end	south west	spill	
11-23277- 006	Blank Sam	ple	M <del>I. 41</del>				

Survey Date: 05/17/2011

## CH2M HILL Plateau Remediation Company IH Sampling Field Log

Survey ID: 11-23271 - 2404 WB be Area and Personal sampling

Survey Title:				2	urvey Date:	05/17/201
	2404 WB be Area a	ind Personal	sampling			
Sample Plan:	N/A					
WO/Procedure	*		***************************************		(4.1/0)	}
Job Contact:	Carter, Steve B	Phone:	(509)372-3969	Cell Phone:	(b)(6)	
			Signature/	Date:		
Engineering/Ac	iministrative Contro	is:			*******************************	····
The due dates a	escribe activity within are wrong in the IH da 011. The bios calibrat	ta base. 3528	3 expires 10-28-2011	. 1798 expires 10-; current due date i	28-2011 and s 12-29-2011	2141
					····	***************************************
inst ID: 1798 Sample Usage	Calibration Device: : Area	: 1851 <b>Cal</b>	Unit of Meas: I/min			
Sample ID: 11-	23271-1-A2 Same	oling Mediz:	37 mm MCE Filter	(nonoral)		
Flow Rate: 2.5	-		Time Off:	• • •	Flow Rate:	
Zone: WM Zone	12 l/min Time O	n: 404WB	Time Off:	• • •	Flow Rate:	
Zone: WM Zone Specific Locations ID: 2141	Location: 2 ion: 2404 WB row 19 Calibration Device:	n: 404WB 8 BE boundar : 1851	Time Off:	Post Use F		
Zone: WM Zone Specific Locat inst ID: 2141 Sample Usage	Location: 2 Locati	n: 404WB 8 BE boundar : 1851 Cal Type: TWA	Time Off:  Unit of Meas: I/min- Worn By  37 mm MCE: Filter	Post Use !		
Zone: WM Zone Specific Locations inst ID: 2141 Sample Usage Sample ID: 11- Flow Rate: 2.5 Zone: WM Zone	Location: 2 Locati	n: 404WB 8 BE boundar : 1851 Cal Type: TWA pling Media: n:	Unit of Meas: I/min- Worn By 37 mm MCE Filter Time Office.	Post Use ! /: /: (general)		
Zone: WM Zone Specific Locations inst ID: 2141 Sample Usage Sample ID: 11- Flow Rate: 2.5 Zone: WM Zone	Location: 2 Locati	n:	Time Off:  Unit of Meas: I/min- Worn By  37 mm MCE Filter Time Off:  Y	Post Use !  (general)  Post Use !		
Zone: WM Zone Specific Locations ID: 2141 Sample Usage Sample ID: 11- Flow Rate: 2.5 Zone: WM Zone Specific Locations Inst ID: 3528	Location: 2 Location: 2 Location: 2 Location: 2 Location: 2 Location: 2 Personal Sample: 23271-1-P1 Sample: Location: 2 Locati	n: 404WB 8 BE boundar 1851 Cal Type: TWA pling Media: n: 404WB 8 BE boundar	Unit of Meas: I/min-Worn By  37 mm MCE Filter Time Off	Post Use (general)  Post Use (		
Zone: WM Zone Specific Locations ID: 2141 Sample Usage Sample ID: 11- Flow Rate: 2.5 Zone: WM Zone Specific Locations ID: 3528 Sample Usage Sample Usage Sample ID: 11-	Location: 2 Location: 2 Location: 2 Location: 2 Location: 2 Location: 2 Personal Sample: 23271-1-P1 Sample: Location: 2 Locati	n: 404WB 8 BE boundar 1851 Cal Type: TWA oling Media: n: 404WB 8 BE boundar 1851 Cal cling Media:	Unit of Meas: I/min-Worn By  37 mm MCE Filter  Time Off:  Y  Unit of Meas: I/min-	Post Use ( general)  Post Use (	low Rate:	

Specific Location: 2404 WB row 18 BE boundary

Survey Date: 05/17/2011

## CH2M HILL Plateau Remediation Company IH Sampling Field Log

Survey ID: 11-23271 - 2404 WB be Area and Personal sampling

Worn By:					
15 THE TOTAL OF TH	(2141 11-2327	1-1-P1)			
Task:		**************************************	त्राच्या प्रतिकृतिकृतिकृतिकृतिकृतिकृतिकृतिकृतिकृतिकृ		
		Respira	tor Protection		
Respirator Use:	□ NA □ Requ	ired ☐ Voluntary			
Respirator Type:	MATERIAL PROPERTY AND		Cartridge Ty;	<b>30</b> :	ak filosofia de ser en esta en esta en esta en esta en esta en esta esta esta esta esta esta esta esta
an extension of the control of the c		Ott	ner PPE		
Clothing:	☐ Coveralis	☐ Impermeable	□swp		
Eye Wear:	☐ Face Shield	☐ Goggles	☐ Safety Glasses		
Hearing Protection:	☐ Muffs	□Plugs			
Other:	☐Gloves	☐ Hard Hat	☐ Ice Vest	☐ Substantial Footwear	☐ Safety Shoes

Survey Date: 06/01/2011

### CH2M HILL Plateau Remediation Company IH Sampling Field Log

Survey ID: 11-23650 - 2404 WB East side additional clearance

Survey ID: 11-	-23650			Su	rvey Date:	06/01/2011
Survey Title: Sample Plan: WO/Procedure:	2404 WB East side addi N/A		nce -			
Job Contact:	Campbell, Robert A	Phone:	Signature/Date:	Cell Phone:	(b)(6)	
Engineering/Ad	ministrative Controls:	***************************************				
Comments: (De	scribe activity within the f	arm during s	ampling period.)			
**************************************						
inst ID: 2182 Sample Usage:	Calibration Device: 153 Area	2 Cal Unit	t of Meas: I/min	**************************************	·····	
Sample ID: 11-3 Flow Rate: 3.1	23650-1-A-1 <b>Sampling</b> 29 I/min <b>Time On</b> :		mm MCE Filter (gene Time Off:		ow Rate: _	destrons and property and a state of the sta
Zone: 200W Ge Specific Locati	neral Location: 200W ( on: 2404WB	General				
	Calibration Device: 153 Personal Sample Type				antent attertuel i in identification de la commencia de la commencia de la commencia de la commencia de la comm La commencia de la commencia de	*************************
Sample ID: 11-	23650-1-Blank (Blank)	Sampling I	<b>ñedia:</b> 37 mm MCE I	Filter (general)		
Sample ID: 11-2 Flow Rate: 3.9	- "		mm MCE Filter (gens		ow Rate:	······································
Zone: 200W Ge Specific Locati						
inst ID: 518 ( Sample Usage:	Calibration Device: 1532 Area	Cal Unit	of Meas: I/min	erinterioristici esta esta esta esta de la compania de la compania de la compania de la compania de la compani		
Sample ID: 11-3	• •		mm MCE Filter (gene	•	low Rate: _	******
7	maral Location: 200M/	^ 1		**************************************	****	***************************************

Specific Location: 2404WB

inst ID: 522 Calibration Device: 1532 Cal Unit of Meas: I/min

Sample Usage: Area

Sample ID: 11-23650-1-A-3 Sampling Media: 37 mm MCE Filter (general)

Flow Rate: 3.876 I/min Time On: \_\_\_\_ Time Off: \_\_\_\_ Post Use Flow Rate: \_\_\_\_

Zone: 200W General Location: 200W General

Specific Location: 2404WB

Survey Date: 06/01/2011

# CH2M HILL Plateau Remediation Company IH Sampling Field Log

Survey ID: 11-23650 - 2404 WB East side additional clearance

Worn By:	***************************************			***************************************		
Task:	**************************************		TOTAL CONTROL OF SPRINGER AND			
Respirator Use:	□NA□Requ	Respirer ired ☐ Voluntary	tor Protection	·		
Respirator Type:	*************************************		Cartridge Typ	<b></b>	TO STATE TO SECTION OF THE SECTION O	
	Other PPE					
Clothing:	☐ Coveralls	☐ Impermeable	□swp			
Eye Wear:	☐ Face Shield	☐ Goggles	☐ Safety Glasses			
Hearing Protection:	☐ Muffs	□Plugs				
Other:	☐ Gloves	☐ Hard Hat	☐ Ice Vest	☐ Substantial Footwear	☐ Safety Shoes	

#### CH2M HILL Plateau Remediation Company IH Surface Sampling Field Log

Survey ID: 11-23649 - 2404 WB East side additional clearance

Survey Date: 06/08/2011 Survey ID: 11-23649 Map: No Survey Date: 06/08/2011 2404 WB East side additional Survey Title: clearance Sample Plan: N/A WO/Procedure: (b)(6) Job Contact: Campbell, Robert A Phone: (509)373-9599 Call Phone: Signature/Date: Comments: Sampling Media - Required Analysis: Ghost Wiper(Error Exp) Benglium Sample Dimensions Location Specific Location **Location Details** Number 11-23649-100cm2 200W General 2404WB tarp bordering spill 001 11-23649-100cm2 200W General 2404WB tarp bordering spill 002 11-23649-100cm2 200W General 2404WB tarp bordering spill 003 11-23649-100cm2 200W General 2404WB tarp bordering spill 004 11-23649-100cm2 200W General 2404WB tarp bordering spill 005 11-23649-100cm2 200W General 2404WB tarp bordering spill 006 11-23649-100cm2 200W General 2404WB tarp bordering spill. 007 11-23649-100cm2 200W General-2404WB tarp bordering spill-800 11-23649-100cm2 200W General 2404WB tarp bordering spill 11-23649-100cm2 200W General 2404WBtarp bordering spill 010 11-23649-100cm2 200W General: 2404WB masslin on floor East BCA Boundary 011 11-23649-Blank Sample · - 250.44 012

#### CHPRC CRITIQUE/INVESTIGATION REPORT FORM 1. Critique/ Investigation Report Date and Time. Date: 4-26-2011 1:00 []AM [x] PM Time: 1a Critique/Investigation Leader James W. Smith 2. Critique/Investigation Title: Contamination on Drum, Pallet, and Floor in 2404WB 3. Critique/ Investigation Report Number: EM-RL--CPRC-WRAP-2011-0002 4. Location of Event/ Issue: 2404WB / WRAP Complex / 200W 5. Date and Time Discovered. Date: <u>4-26-2011</u> Time: 8:40 [x] AM [ ] PM 6. Associated Occurrence Report Number (if known); EM-RL--CPRC-WRAP-2011-0002 7. NOTIFICATIONS NAME ORGANIZATION DATE TILAL Les Sutton CHPRC, WRAP Operations DOS 4/26/2011 0840 Ed McCarthy CHPRC, TRU Project Director 4/26/2011 0900 John Trevino DOE Facility Representative 4/26/2011 0905 Ty Blackford CHERC, WAFMP VP 4/26/2011 0907 Connie Simiele CHPRC, WAFME Deputy VP 4/26/2011 0908 Ben Wallace DOE Facility Representative 4/26/2011 0910 On Duty Manager Occurrence Notification Center 4/26/2011 0910 Don Pyzel CHPRC, CWC Facility Manager 0915 4/26/2011 Brian Oldfield CHPRC, RADCON Program Manager 4/26/2011 0920 Wayne Toebe CHPRC, Single ECO FCC 4/26/2011 0920 Les Tuott CHPRC, WRAP ECO 4/26/2011 0920 Jack Griffith HAMTC Safety Representative 4/26/2011 0925 8. NATURE OF ISSUE [x] Event [ ] Condition [ ] Concern [ ] Successful Evolution/ Lessons Learned 9. SUMMARY/GENERAL COMMENTS At approximately 0840 hrs, 4/26/2011, while inspecting drums for a waste shipment, a WRAP (b)(6) and (b)(b) drum 0062288 in the 2404WB Building with fluid on the bottom of the drum, on the pallet identified beneath it, and on the floor. The amount of fluid was estimated to be twenty milliliters. Surveys indicated greater than 1,200,000 disintegrations per minute (dpm) per 100 centimeters squared (100 cm2) direct alpha contamination. No beta gamma contamination was identified. At the time of the event, the area was posted as a Radiation Area (RA)/ Radioactive Material Area (RMA). No building ventilation was on at the time. No air sampling was in place at the time of discovery. who took a tech smear of the liquid along the base of the pallet, was contaminated with 3,205 dpm/100 cm2 direct alpha on the right hand where the wrist and palm meet. The (b)(6) was surveyed out of 2404WB and escorted to the WRAP Decontamination Room in 2336W. Nasal smears were collected from (b)(6) with negative results. The contaminated skin was decontaminated down to 36 dpm/100 cm<sup>2</sup> direct alpha, (b)(6) was fitted with a cotton liner and rubber surgical glove on the right hand. The contaminated skin area was evaluated by medical staff for acid burns - there were none - and the right hand was re-gloved. (b)(6) was allowed to leave at the end of the day shift after being instructed to wear the cotton liner and glove until they return to work. At approximately 0700 hours, 4/27/2011 at the WRAP Facility, (b)(6) was surveyed with no detectable levels of contamination on the hand.

OCCURRENCE REPORT CRITERIA: Group 6B, Spread of Radioactive Contamination, (2) SC2: Identification of onsite radicactive contamination greater than 100 times the social contamination values in 10 CFR 835 Appendix D and that is found outside of the following locations: Contamination Areas, High Contamination Areas, Airborne Radioactivity Areas, Radiological Suffer Areas, and areas controlled in accordance with 10 CFR 835.1102(c). For tritium, the reporting threshold is 100 times the removable contamination values in 10 CFR Part 835, Appendix D.

#### Immediate Actions:

- Notifications were made to the Shipping and Receiving (S/R) First Line Manager (FLM), WRAP Duty Operations Supervisor (DOS), Facility Manager, Industrial Safety/Industrial Hygiene (TS/IH) and WRAP RADCON Supervisor.
- Workers were surveyed out of 2404WB with whole body surveys, except for (b)(6)
   was partially surveyed with focus on the upper torso, right hand, and right arm, since alpha contamination was found on the (b)(6) right wrist/palm area.
- \* (b)(6) was escorted to a decontamination area and decontaminated.
- The DOS opted to staff the WRAP Incident Command Post (ICP) to gather personnel and information related to this event.
- The S/R FLM, RADCON Supervisor and workers posted Building 2404WB as a High Contamination Area (HCA) and Airborne Radioactivity Area (ARA).
- Building 2404WB was also posted as a Beryllium Contamination Area (BCA) after further review of the suspect drum inventory contents and consultation with industrial hygiene (IH).

Post Critique Information: On 5-01-2011 a recovery team entered 2404WB and confirmed that the contaminated liquid did leak out of Drum 0062288. A pin head size hole was discovered on the side of the drum approximately two inches up from the bottom edge of the drum. When the drum was moved liquid was observed coming out of this hole. SWITS lists drum 0062288 at 178.75 kg gross weight, 3.55 Pu-FGE Pu and 5.07 Total De-Ci.

#### 10. DESCRIBE AFFECTED BUILDING, SYSTEM, OR EQUIPMENT

Building 2404WB is a low-level and Transuranic waste storage unit with a sloped floor and two collection sumps designed as secondary containment. It is part of the Waste Receiving and Processing (WRAP) Facility, which is located in the 200 West Area of the Hanford Site.

#### 11. DESCRIBE CHRONOLOGY OF OCCURRENCE

NOTE: Attach record of relevant alarms, annunciators, and time of receipt. Obtain official copies of logs, procedures, strip charts, and other pertinent documentation necessary for subsequent investigations.

Time line of the event:

Time	Log Entry
4/25/2011 ~ 0800	The S/R FIM conducted a pre-job briefing for WRAP Operations, including waste shipment preparations, NDE/NDA, SuperHENC, Eigh Energy RTR, and waste movements throughout the WRAP facility. Monday's pre-job briefing was thorough in going over all sections of the pre-job form; e.g., emergency response actions, spills, SWIM, etc. Note: (b)(6) was not at this pre-job briefing. The (b)(6) was in attendance while (b)(6) and (b)(6) (b)(6) then briefed these (b)(6 and made task assignments to support the work scope covered in the pre-job. This is a normal practice among the (b)(6)
4/25/2011 - 0730	The S/R FLM conducted a graded pre-job briefing for WRAP Operations involving shipment preparations, NDE/NDA, SuperHENC, High Energy RTR, and waste movements throughout the WRAP facility. This was a graded pre-job briefing following Monday's more thorough briefing. Again. (b)(6) was not at this pre-job briefing, and the (b)(6) subsequently briefed (b)(6)
~ 0800	S/R NCOs arrived at Building 2404WB. Five NCOs were separated into work teams to walk-down and locate drums to be mined, staged and prepared for out-going shipments.
~ 0815	(b)(6) noticed fluid at the bottom of a drum (3062288) located in Row WB_08, located on the Southeast section of 2404WB. The drum is one of four banded together on a wooden pallet. There are two similar pallets (4 drums each) stacked directly on top of this pallet of drums. $(b)(6)$ was very observant to spot this drum, since it was not on the list of those to be staged for the out-going shipment $(b)(6)$ informed the $(b)(6)$ of the liquid. $(b)(6)$ personally confirmed the report from a distance of

	approximately 10 to 15 feet away. (b)(6) then moved all (b)(6 to the West-end of Building 2404WB.
- 0830	(b)(6) contacted S/R FIM via radio. FLM requested that (b)(6) call him on the land line contacted (b)(6) via radio and requested support at the West-and of 2404WB. called FLM using 2404WB land line and provided details on the discovered liquid. FLM asked if the drum package identification number (PIN) was known. (b)(6) stated that it was not, but that it could be obtained.
- 0830	The S/R FLM made the following notifications regarding the liquid outside of the drum; WRAP Duty Operations Supervisor (DOS), WRAP Facility Manager, WRAP Industrial Safety/Industrial Sygiene (IS/IH), and WRAP RADCON Supervisor.
- 0830 to 0840	(b)(6) and domned surgeon gloves.  (b)(6) and domned surgeon gloves.  (b)(6) beaded to the drum.  (b)(6) to obtain the drum PIN.  (b)(6) side of Drum 0062288, which indicate no contamination.  (b)(6) "clear liquid" (bottom of the drum, side of the wooden pallet, and floor), which "pegged" the PAM off scale at K-1 and X-100.  (b)(6) edge of the liquid along approximately 25 contimeters of the pallet, which "pegged" the PAM off scale at X-100.
- 0840	(b)(6) returned to the West-end of 2404WB. (b)(6) dotted the surgeon gloves with the tech smear inside the palm of one glove.  Upon survey, (b)(6) discovered contamination on the right hand (wrist and palm area).
~ 0840	FLM and RADCON Supervisor arrived at West-end of 2404WB. (b)(6) was in route to the Decontamination Room in 2336W.(b)(6) was being surveyed out.  2404WB roof repair contractor personnel and equipment were moved away from 2404WB. They were preparing to access the roof when they were notified of the situation.
~ 0850	DOS completed a PAX/Radio announcement for personnel not involved in response to keep clear of 2404WB.  DOS also requested that WRAF Incident Command Post (ICF) personnel staff the tree.
~ 0900	WRAP ICP was staffed. This was not an activation of the ICP.
- 0900 to 0930	All personnel were out of 2404WB, access and egress points had been surveyed and posts as High Contamination Area (HCA) and Airborne Radioactivity Area (ARA).  All doors were secured.  (b)(6) surveyed using the Personnel Contamination Monitor (PCMs) in 2336W - no contamination.  CWC and T-Plant facilities were notified of the situation.
~ 0900 - 1015	WRAP ICP actions included reviewing emergency response, notification, and reporting procedures. DOS called the Occurrence Notification Center (ONC) to review event information and both agreed that an emergency action level (EAL) had not been reached. Both also agreed that the level of personnel contamination was not reportable. The contamination level on the drum was not reviewed for reporting criteria. The BED checklist and WRAF Spill Response Procedure were also used and did not trigger additional actions, notifications or reports.  At 1015, DOS concluded that WRAP did not require any outside assistance.
- 0945 - 1015	Building 2404WE was also posted as a Beryllium Contamination Area (BCA) after further review of the suspect drum's SWITS inventory contents and consultation with industrial hygiene (IH). The ICP stood down.
- 1115	Review of RADCON survey information performed on the liquid outside of the waste drum(s), prompted categorization of this event as a Reportable Occurrence under Group 6B, Spread of Radioactive Contamination, (2) SC2.
1130-	right hand was evaluated by CSC Hanford Occupational Health and Safety medical staff for acid burns. No signs of acid burns were noted.
- 1.53¢	(b)(6) right hand (wrist and palm areas) was decontaminated down to 36 dpm/100 cm $^2$ . The right hand was gloved using a cotton liner and surgeons glove with instructions to leave them in place until RCT 1's return to work on 4/27/2011.
4/27/2011 - 0700	(b)(6) right hand (wrist and palm areas) was surveyed clean.
4/272011	A critique meeting was conducted for this event.

)(6)

#### 12. DESCRIBE IMMEDIATE ACTIONS TAKEN AND RESULTS

- · Drum handling operations were stopped in 2404WB, and the building was placed in the Stand-By Mode.
- Notifications were made WRAP S/R FLM, DOS, FM, RADCON Supervisor, IS/IH.
- Personnel surveyed out of Building 2404WB.
- The WRAP Incident Command Post (ICP) was staffed and determined that an emergency action level had not been reached.
- Co-located facilities were notified of the event.
- The 2404WB Building was posted as a High Contamination Area (HCA) and Airborne Radioactivity Area (ARA). It was also posted with a "Contact DOS Prior to Entry" sign.
- Contractor personnel who were preparing to start work on the 2404WB roof were cleared out of the immediate area, including repositioning equipment away from the building.
- Building 2404WB was also posted a Beryllium Controlled Area (BCA).
- Personnel radiological surveys were conducted.
- (b)(6) right hand was decontaminated, surveyed, and evaluated by medical staff.
- All other personnel, who entered 2404WB, were surveyed and completed a whole body survey using a Personnel Contamination Monitor (PCM) with no contamination found.
- Additional notifications were made.

Recovery planning actions were initiated.
13. DESCRIBE OPERATING CONDITIONS OF FACILITY AT TIME OF OCCURRENCE
Building 2404WB was in an Operational Mode, without ventilation systems on (normal
configuration during cooler weather).
The building was occupied by (b)(6) when fluid on a drum, a pallet and the floor was
discovered. (b)(6) ere walking down drums to prepare for an out-going shipment of waste
ärume.
14. APPARENT CAUSES TO INCLUDE THE CONTEXT OF PERSONNEL ACTIONS, POTENTIAL ERROR PRECURSORS, FLAWED OR FAILED DEFENSES, AND POTENTIAL LATENT ORGANIZATIONAL WEAKNESSES
Human Error: (b)(6) right hand (wrist and palm area) became contaminated when doffing
surgical gloves worm (b)(6) a contaminated liquid (b)(6)
(b)(6) pontaminated liquid.
Human Error: (b)(6) may have spread contamination (b)(6)
contaminated liquid. Less than adequate techniques (b)(6)
(b)(6) contaminated materials.
Inappropriate PPS: (b)(6) denned a small pair of surgeon gloves upon entering 2404WB.  Downing these smaller sized gloves may have contributed to cross contamination during glove doffing. Additionally, chemical gloves should have been worn given that an unknown liquid was observed outside of a TRU waste drum.
Mind Set (S/R FLM, (b)(6)  Upon being notified by phone by the (b)(6)
of the "leaking drum," the S/R FLM asked if the drum package identification number (PIN) was
available. The S/R FLM believed obtaining the PIN was necessary to assist the decision-
makers in addressing the situation. (b)(6) over heard the phone conversation between the S/R
FLM and the $(b)(6)$ $(b)(6)$ told the $(b)(6)$ that would show $(b)(6)$ the drum and obtain $(b)(6)$
the PIN. Neither the S/R FLM nor (b)(6) realized that (b)(6) the
liquid. The request for obtaining the drum PIN gave an indication that "investigative
actions" were appropriate. In hindsight, the key opportunity to ensure all work activities
were STOPPED was missed by the S/R FLM, (b)(6)  All were focused on
obtaining additional information of the situation.
Can Do Attitude: (b)(6) elieved it was an expectation (b)(6) information to assist in addressing the liquid.

#### 15. POSITIVE ASPECTS

(b)(6) attention to detail in noticing and promptly reporting the liquid outside of the TRU waste drum was admirable.

The (b)(6) response to leave the immediate area of the liquid outside of a drum, notify supervision, and await further direction was admirable.

The rapid response by RCTs to the West-end of 2404WB and the survey, contamination control and exit of personnel was noteworthy.

RADCON was quick to survey and confirm there was no release of contamination from 2404WB.

Posting of 2404WB by NCOs and RCTs was timely.

Decontamination and follow up surveys of (b)(6) were timely and professional.

Utilization of the WRAP ICP to gather personnel, information, and make decisions regarding this event was noteworthy. The DOS and Occurrence Notification Center worked together to determine that an emergency action level had not been reached. It also expedited the decision that no additional or outside resources were needed to address this event.

Follow up on the estimated 1.2 M dpm/100 CM<sup>2</sup> alpha contamination by the WRAP Facility Manager resulted in the proper occurrence report classification of the Group 6, Spread of Radioactive Contamination, (2) SC 2 event.

#### 16. RECOMMENDED ITEMS FOR FURTHER REVIEW

A formal causal analysis should be performed.

A review of the suspect drum(s) should be performed once additional information can be obtained during implementation of the recovery plan.

#### 17. SUGGESTED CORRECTIVE ACTIONS

Corrective actions will be developed as part of the Occurrence Reporting process.

18. CRITIQUE/INVESTIGATION REPORT L	EADER APPROVAL	**************************************	***************************************
J. W. Smith	James W Smith	5-3-2011	372-3012
Name (First, Middle Initial, Last)	Signature	Date	Phone
19. CRITIQUE/INVESTIGATION REPORT A	APPROVAL / O /		Number
	11/4/1	//	
A. S. Mortensen	A THURS THE	5/03/2011	373-1486
Name (First, Middle Initial, Last)	Signature /	Date /	Phone
			Number

## **CHPRC CONDITION REPORT FORM**

Status: Analysis

CR NUMBER: CR-2011-1403

Issue Identification and Processing		
Initiator: Poole, Beth	Initiating Document: EM-RLCPRC-WRAP-2011- 0002	Date identified: 4/27/2011
Title of Issue: High Levels of Contamination Found on Waste Dr	um	
Description of Issue: While inspecting drums in preparation for a waste	shipment, a WRAP (b)(6) drum in the 2404WB Building with bor. The amount of fluid was estimat 0 disintegrations per minute (dpm) p	ed to be twenty per 100 centimeters entified. No air sampling
Requirements Not Met: (Orders, Requirements, Procedures)	Responsible Project/Program: WASTE AND FUELS MANAGE	MENT PRO
Date Submitted: 4/27/2011	Other Related Documents:	
Immediate Action(s) Taken:  Personnel left the building and the area was poste Radioactivity Area (ARA) and a Beryllium Controlli and determined that an emergency level had not be event.  Personnel radiological surveys were conducted. E contamination (3,205 dpm/100 cm 2 alpha) on the of personnel with negative results. Decontamination building completed a whole body survey with no contamination.	ed Area (BCA). The Incident Commineen reached. Co-located facilities were surveys of the (b)(6) revealed a number individual's wrist and palm. Nasal son procedures were implemented. A	and Post was staffed rere notified of the on-reportable level of means were conducted
Recovery planning actions were commenced.		
Recommended Corrective Actions:		
Initiator Comments: Assign to McCarthy		
Associated Files Change-Assignes.pdf		
EM-RLCPRC-WRAP-2011-0002CritiqueReport.r WRAP-2011-0002NotificationReport.doc	odf	

Significance Level: Significant	Date Submitted to Responsible Manager: 4/28/2011 - McCarthy, Edward T	Date CAP was approved by Responsible Manager/Delegate:
ORPS	Compliance Determination	NTS
Occurrence Report Nu EM-RLCPRC-WF	·	
PAAA Compliance Det CHPRC-PAAA-201		

Screened as Significant.

This CR documents high levels of contamination on a waste drum at which the levels reached greater than 100X the total contamination values in 10 CRF 835 Appendix D outside of an area posted for the control of

PRC-PRO-QA-052 Table 1 criteria this is consider	a, this is reported on an SC-2 Occurrence Report and per ered Significant. As a result, this will require the performance e, Extent of Condition and an action plan with the goal of
DBW	
Assigned To:	Date Assigned:
Poole, Beth	5/3/2011
Extent of Conditions:	
Causal Analysis Method Used:	Analysis Completion Date:
Analysis Results:	
Trend Codes:  RP0304 - Contamination Control-Outside Posted MS06 - Hazard Identification/Analysis	l Area
Cause Codes:	
PAAA/851 Citations:	
830.122(e)(1)	
ISMS:	

i no neth	evai Project (WHAP, 1 P	iant, LPCS, & THU)				
Ben Wallace	•	WRAP				
Rpt#:	Date Entered:	Date Observed:	Last Modified Date:			
37087	04/26/2011	04/26/2011	04/26/2011			
Entry Type: Rou	ntine Oversight	include in CIR: No	Hours in Field:			
Title:						
WRAP Drum	Leak- Tuesday 04/26/2011					
Summary:	•					
oi a leannig i	waste ulum. The FH was also r	vas notified at 0931 hrs on T notified that the event scene	uesday 04/26/2011 by the WRAP Directo had been secured and the Incident			
The following	information was obtained at the	ne ICP:				
- Off Scale D - Off Scale S - No Beta/Ga	mic Direct Heading >100K Alpr mear > 100K Alpha imma readings	а	ow 8, Bottom Tier, and mid row.			
- Drum identi	- Aprox. (20-50)mi visable liquid over an affected Area aprox. 1 ft^2 - Drum identification number (0062288)					
- Drum (0062 02/09/11. Du	288) was one of two drums that ring drum processing at WRAF	' baking Soda was used to r	m during repackaging at WRAP on neutralize acid soaked Vermiculite found			
a ising a lie ois	yındı ulum. Triş orum ajso con	tained Bervillum.				
- Contaminat	ion on Faim/wrist at apro	X. 4D cm^2 area and was in	ontaminated on right Palm/Wrist. itially thought to read 1200 dpm/probe			
OSOOMS		to wordainy po rodding occor	ара (лина) и ше ресоптоот,			
- 2404WB bu	ilding posted as HCA/ARA.					
<ul> <li>All doors su</li> <li>All personel</li> </ul>	exited with no Contamination:	ound. and then resurveyed in Port	al Contamination Monitor (PCM) located in			
0920hrs						
	or activities around 2404WB we	ere halted.				
	cleared Person	al Contamination Monitor (F	PCM).			
(b)(6) hasal s	smears performed and returned	with no contaminaton foun	d on nasai smears.			
the contamin	audh out of the skin.					
- ICP was ten			,			
-Event Categ		,,,,				
	rted contamination levels of liqu	uid at base of drum and floo	r at 1.2 million dpm/cm^2.			
Issue Type:	-indina		get to a second			
Statement:	· · · · · · · · · · · · · · · · · · ·		Significance Level: 2			
	Ben Wallace Rpt #: 37087  Entry Type: Ro.  Title: WRAP Drum Summary: The DOE-RL of a leaking of Command Process Area (Alpha)i 0900hrs - Initial (b)(6) - Contammar area (Alpha)i 0900hrs - ICP Activate 0905hrs - 2404WB bu 0912hrs - All contracte 0905hrs - 2404WB bu 0912hrs - All contracte 0905hrs - All contracte 0905hrs - Notification 0920hrs - All personei Process Area 0914hrs - Notification 0920hrs - All contracte 0926hrs - All contracte 0931hrs - Notifications (b)(6) hasals inand the contamina - Four decont 1015hrs - ICP was ten 1130 hrs - Event Categ 1300hrs - WRAP repo	Ben Wallace Rpt #: Date Entered: 37087 04/26/2011  Entry Type: Routine Oversight  Title: WRAP Drum Leak- Tuesday 04/26/2011 Summary: The DOE-RL Facility Representative (FR) v of a leaking waste drum. The FR was also r Command Post (ICP) was activated.  The following information was obtained at the following information was obtained at the off Scale Limit Direct Reading >100K Alpha Off Scale Limit Direct Reading >100K Alpha Off Scale Smear > 100K Alpha Off Scale Smear Smear Off Scale Smear	Rpt #: Date Entered: O4/26/2011  Entry Type: Routine Oversight include in CIR: No  Title: WRAP Drum Leak- Tuesday 04/26/2011  Summary: The DOE-RL Facility Representative (FR) was notified at 0931 hrs on T of a leaking waste drum. The FR was also notified that the event scene Command Post (ICP) was activated.  The following information was obtained at the ICP:  0840hrs - Spill/leaking drum was found in the 2404WB building and located in Ri-Off Scale Limit Direct Reading >100K Alpha - Off Scale Limit Direct Reading >100K Alpha - No Beta/Camma readings - Aprox. (20-50)ml visable liquid over an affected Area aprox. 1 ft/2 - Drum identification number (0062288) - Drum (0062288) was one of two drums that was created from one dru 02/09/11. During drum processing at WRAP baking Soda was used to r inside the original drum. This drum also contained Bendlium Initial (D)(6) - Contammatour-one—promyvorist at aprox. 40 cm*2 area and was in area (Alpha)in the field, but was determined to actually be reading 5000 0900hrs - ICP Activated 0905hrs - 2404WB building posted as HCA/ARA. 0912hrs - All coors surveyed and no contamination found All personnel exited with no Contamination and then resurveyed in Port Process Area of 2336W building. 0914hrs - Notification made to the Occurrence Notification Center. 0920hrs - All contractor activities around 2404WB were halted. 0926hrs - All personnel, excep cleared Personal Contamination Monitor (F 0931hrs - Notifications made to Management and DOE-RL FRs. (b)(6) hasal smears performed and returned with no contamination level to 50 to 1015hrs - Notifications area then place the contamination out of the skin Four decontamination attempts reduced the contamination level to 50 to 1015hrs - ICP was terminated and facility turned focus to developing a recovery (1130 hrs - Event Categorized as 68(2), SC-2. 1300hrs - WRAP reported contamination levels of liquid at base of drum and floo			

Initial response from RCT to obtain smear of liquid from drum not authorized.

Discussion:				
The (b)(6) (b)(6)	resulted in conta	of the liquid from the (b)(6)	the drum was not au iright Palm/Wrist.	thorized. Obtaining the
(2.1)"immedia	first discovered the leaky da te actions" of the facilities Em This represents a lack of un	ergency Response Proced	ure WRP-ERP-014	ailed to follow Sec(b)(6) (Respond to sponse.
W - WARN of I - ISOLATE a M - MINIMIZE	e-emergency activities. hers. hrea, if possible and safe. exposure and contamination ventilation, if possible and sa			
direction to rep	mergency Response Proced port the information to the Shi er the immediate actions.	ure WRP-ERP-014, section ft Duty Officer. The decision	n 2.2 "Follow-up action n to obtain a smear i	ons", only provides is not procedurally
Requirements WRP-ERP-01	s: 4, Respond to Spill/Release,	Section 2.1, Immediate Aci	ion states:	
b. W – WARN c. I – ISOLATI	E SWIMS. on-emergency activities.	ing.		
e.S-SECUR	E ventilation, if possible and  4, Respond to Spill/Release,	safe.	one states in nart	
2.2.5 IF spill/re	elease event is in 2404-WB o Central Waste Complex (C	r 2404-WC Buildings.		mmunicating with CWC
Funct. Area:	Trend Code:	ISMS Funct:	Causal Code:	
MT	CONOPS-COM	WORK	Competent	Isaue Number: 9834

### TRU Retrieval Project (WRAP, T Plant, LPCS, & TRU)

John Trevino

	Rpt#:	Date Entered:	Date Observed:	Last Modified Date:
	37096	04/26/2011	04/26/2011	04/26/2011
	Entry Type: ARRA		Include in CIR: No	Hours in Field:
	Title:			
	WRAP Reportable Occurr the floor of building 2404-	ence – spread of alpha cont WB which is not posted for o	tamination - leak from a contamination control.	waste drum likely an acid pinhole to
	Summary:			
	The FR was notified of the occurrence.	e subject event and later not	ified that the event was	categorized as a reportable
	On April 26, while inspecti	ng drums in preparation for	a waste shipment, a Wi	<sub>RAP</sub> (b)(6)
	(b)(6)	ide	entified a drum in the 24	04WB Building with fluid toward the
	milliters Surveys indicate	B pallet beneath it, and on the	e floor. The amount of f	Juid was estimated to be twenty e (dpm) per 100 centimeters squared
	(100 cm2) direct alpha coi	ntamination. No beta gamm	a contamination was ide	entified. No air sampling was in place
	at the time of discovery. A Material Area (RMA).	t the time of the event, the a	area was posted as a Ra	adlation Area (RA)/ Radioactive
	Immediate Actions:			
	Area (HCA), Airborne Rac	lioactivity Area (ARA) and a	Beryllium Controlled Ar	nd posted as a High Contamination ea (BCA). The Incident Command eached. Co-located facilities were
	contamination) on the indi level (3,205 dpm/100 cm : Decontamination procedu	squared alpha). Nasal smea res were implemented. A bi	levels of skin contaminates were conducted of people considers will be analyzed	tiffied contamination (skin (b)(6) ation were less than the reportable ersonnel with negative results. for the to verify potential (b)(6) y survey with no contamination
	WRAP initiated planning for tomorrow (April 27).	or recovery from the event.	In addition, a critique wi	be conducted for the event at 1 pm
	Additional information:			
)(6)	• 0840 - Liquid discovered	on a bottom tier drum (#00 check the liquid.	6228) in row 8 in 2404W	<b>/</b> B.
- The second sec	dpm/probe alpha on palma In the Decon room actua Contaminated area ~40c decon attempts reduce Nasal smears were negative.	:m2 at palm/wrist (most likel ed to 50 dpm/probe ative.	OFF-SCALE on the PA ered it with a glove and se 5,000 dpm/probe alpha y cross-contamination for ev and PCM, no addition	M. RCT discovered 1,200 sent to Decon Room. a no beta/gamma contamination rom doffing gloves)
	<ul> <li>All thresholds to 2404WE</li> <li>2404WB was posted HC</li> </ul>	3 surveyed with no contamir	nation found.	

#### Drum Info:

- Drum was exited from TRU Glovebox 2/9/11.
  Baking soda neutralized acid soaked up in Vermiculite.
  6.2 mr/hr on contact.
  The drum is listed as containing Berylllum.
  Drum was a splitter so there is a sister drum.

• ~20 - 50 ml visible liquid covering ~1 ft squared.

Discovery: 4/26/2011, 0900 Hrs Categorized: 4/26/2011, 1130 Hrs Categorized as: 6B (2), SC-2 FR Notified: JE Trevino, 4/26/2011, 1155 hrs

## TRU Retrieval Project (WRAP, T Plant, LPCS, & TRU)

(depending upon how they are addressed in the critique report).

	John Trevino		WRAP		
	Rpt #:	Date Entered:	Date Observed:	Last Modified Date:	
	37165	04/28/2011	04/27/2011	05/24/2011	
	Entry Type: ARRA		include in CIR; No	Hours in Field:	
	Title:				
	Critique for WRAP wa	aste drum leak event - like	ely involving acid attack of t	he steel drum wall	
	Summary:		in in a rining word water, by	TO SECTION WELLS	
	not identify the proble clear path forward. M as problems. Correct to high direct reading meaningful corrective source of the acid, why the acid ate thro	que was well attended and ems, causes, and correction lost of the problems involvive actions associate with is) were not determined as actions. The critique did thy it was not adequately not ugh the wall of the drum.	d conducted expect that after ve actions (both remedial a ring the event and response taking the radiological sme is Rad management wanted not discuss the potential di neutralized when it was reported.	roject director representative attended er the fact finding discussions, PRC d and longer term) in a manner to support were discussed but not clearly outling ear (that should not have been taken of it to evaluate further and then identify rect or contributing causes related to the ackaged in the WRAP TRU glovebox, ated that the repackaging questions formation and evaluation is available.	id nt a ned due
	Summary of significa	nt information from the cri	tique:		
)(6)	(b)(6) instrument The (b)( cross continued the spilled material. It approach close proximates of the spill (version conclusive to reflect rand expectations approach coperations manner applicable to the makes the procedure	taminated himself (b)(6) the FR was told that a bio the FR questioned the net mity to the spill are. During a come within 5 ft of the spus one) [within approx 5 ft no internal deposition). Bid pear to have emphasized gion is not good and needs nagement and DOS felt the event. This is not correct is directly applicable; there incorrectly felt that they we	and likely touch assay was being done for the critique the FR question. Thus it was determined the done for t	ator and was told that he did not coned the operators proximity and that two individuals were close to the were negative (but these aren't(b) or both personnel. • The WRAP training when getting high direct readings. The	)(6) ng is
	This OA only summa	rized part of the things dis	scussed during the critique.	The FR will write a follow-up OA after	r A