.537966

Form SP 9-6-3 Inventory Data Change/Addition Control Form Page 1 of 2

	Page 1 of 2											
	is form is used to document Transuranic Waste Invent	nt resolution of data discrepancies and ory Update Report, 2003.	nd acquisition of additional data for									
	This form documents: Date:	Additional Data Required November 4, 2004	☐ Change to Existing Data									
3.	Site:	INEEL										
4.	Contact Name (include ph	one or email address as appropriate	e):									
	Tom Clements (tlc@inel.gov											
•												
5.	Identify Electronic File Na	mes and Types (N/A if none receive	d):									
	Email Attached: Subject: FV	V: TWBIR-Buried TRU Waste Estimate	Revision 1									
6.	Comments:											
	In April 2003 a judicial decisi	on was made that allows all of INEEL's	TRU waste to be shipped off site.									
	Pre-1970 TRU waste buried	at INEEL falls into this category.										
•												
7.	Discrepancy Resolution:											
	Originally, this waste was pla	aced in the Non-WIPP waste profiles an	d now must be moved to the WIPP									
	profiles and additional inform	nation added.										
8.	Changes/Additional Data N-Z001 becomes 5 waste st	Requested: treams. IN-ICP-002, IN-ICP-003, IN-ICI	5 Pul/34/04 P-004 IN-ICP-004 plus the original IN-									
•		indefined sludge (see attached waste p										
,	2007 Whom Will contain C	andenned sludge (see attached waste pr	oniesj									
												
			·····									

Print Name

Date

Form SP 9-6-3 Inventory Data Change/Addition Control Form Page 2 of 2

9. Date Requested: N/A 10. Changes/Additional Data Received: The buried waste stream from INEEL, IN-Z001 has been split into five separate waste streams. IN-ICP-002 - Idaho Completion Project (ICP) Inorganic Sludge IN-ICP-003 - ICP Organic Sludge IN-ICP-004 - ICP Graphite IN-ICP-005 - ICP Filters IN-Z001 - ICP undefined sludge The radionuclides that were submitted for the 2003 Update will be used for these waste streams. Plastics will include a drum liner and a plastic transfer bag. (Phone conversation with Tom Clements 11/3/04) 11. Date Received: November 4, 2004 Data Collection/Entry Personnel Sheila A. Lott 11/05/04 Print Name Date Inventory Team Lead (for concurrence on resolution) Beverly A. Crawford 11/5/04

X-Sender: slott@ees-mail.lanl.gov

X-Mailer: QUALCOMM Windows Eudora Version 5.0

Date: Fri, 12 Nov 2004 13:27:26 -0700

To: sparkie@lanl.gov

From: Sheila Lott <slott@lanl.gov>

Subject: Fwd: FW: TWBIR- Buried TRU Waste Estimate-Revision 1

X-PMX-Version: 4.7.0.111621

Laurie.

This email was inadverently omitted from the record that goes with the INEEL Pre-1970 waste streams. Would you please sign it and add it to the INEEL record.

Thanks, Sheila

Subject: FW: TWBIR- Buried TRU Waste Estimate-Revision 1

Date: Thu. 4 Nov 2004 13:01:28 -0700

X-MS-Has-Attach:

X-MS-TNEF-Correlator:

Thread-Topic: TWBIR- Buried TRU Waste Estimate-Revision 1 Thread-Index: AcTCAw+EyEupFXJMTkWT10I+vQYGAgApMxnw

From: "Perry, Jeffrey N" <perryin@id.doe.gov> To: <slott@lanl.gov>, <crawford@lanl.gov> Cc: "Clements, Thomas L" <TLC@id.doe.gov>, "O'Neill, Kevin C" <oneillkc@id.doe.gov>

X-Proofpoint-Spam: 0

X-PMX-Version: 4.7.0.111621

X-MIME-Autoconverted: from quoted-printable to 8bit by ees-mail.lanl.gov id iA4K2GD7023959

Sheila and Beverly,

This should contain the information that you need regarding the estimated waste volumes destined for WIPP. These waste volumes assume a retrieval area of 4.5 acres of buried waste exhumed and specifically retrieving only the targeted waste streams identified below. At present, DOE does not have a final agreement with the State of Idaho and these numbers are subject to change. This acreage represents what we believe to be the most likely outcome of future negotiations with the State.

If you have any questions, please give me a call at (208) 526-4570.

Thanks.

Jeff

> ----Original Message-----

> From: Clements, Thomas L

> Sent: Wednesday, November 03, 2004 5:12 PM

> To: Perry, Jeffrey N

> Cc: Van Haaften, David H; Bryan, Jeffrey D; Wells, Jerry L; O'Neill, Kevin C; Webber, Frank L

> Subject: TWBIR- Buried TRU Waste Estimate-Revision 1

Printed for Laurie Sparks <sparkie@lanl.gov> 1.1.3.2: T.D. QA-C: 526765 P8/12404 11/12/2004

> Jeff:

>

>

- > As I mentioned a few weeks ago, WIPP (Sheila Lott) had contacted me about the INEEL inventory for buried TRU waste reflected in waste stream IN-Z001. In January 2004, we responded to an inventory update. In that response, the previous estimates of 55,800m3 of buried TRU was reflected as destined for disposal at WIPP.
- > What has transpired is that the volume of 55,800m3 would push WIPP past its disposal volume authorized under the Land Withdrawal Act. What was requested was a reassessment to determine if the volume could be reduced to something that would fall within the LWA authorized volume. My understanding from Sheila is that the data is supporting the EPA recertification efforts.
- > An evaluation has been completed to provide an improved estimate of the volume of buried TRU waste that would require disposal at WIPP based on a targeted waste retrieval approach. This estimate was based on using the SDA areas delineated in the DOE Request for Proposal for the Idaho Completion Project for targeted waste retrieval. In summary, a map of these seven areas was generated, GIS used to identify disposals within each retrieval area (which included a buffer area), and then the WILD system used to identify the specific waste types and volumes associated with each disposal.
- > The data from WILD was used to determine estimates of the targeted waste forms, including a portion of the waste in the buffer zone, and then the volume of the waste doubled to account for intermixed soil and other waste that might get mixed in during retrieval.
- > In summary, the total estimated volume of buried TRU waste for disposition at WIPP, based on the ICP-RFP and the approach summarized above, can be reduced from 55,800m3 to approximately 12, 243 m3 as unpackaged waste volume. Assuming packaging in 55-gallon drums with 5 cubic feet per drum, this volume in the final packaged form increases to 17,997m3. This breaks down to:
 - Inorganic Sludge (741 and 742 series): 5652 m3 (raw waste) or 8308m3 (packaged volume);
 - Organic Sludge (743 series): 2383 m3 (raw waste) or 3503 m3 (packaged volume);
- Graphite: 491 m3 (raw waste) or 722 m3 (packaged volume);
- Filters: 3278 m3 (raw waste) or 4819 m3 (packaged volume);
- > Other Sludge (undefined): 439 m3 (raw waste) or 645 m3 (packaged volume).
- > The volume reported above excludes the roaster oxide, which is D38 and not expected to be TRU waste.
- > Please forward this information on to Sheila Lott at WIPP at: slott@lanl.gov and Beverly Crawford at: crawford@lanl.gov
- > Thanks for your assistance Jeff.

July (1. Club Page 1 fof 3 TLC@inel.gov, 04:57 PM 11/19/2004, TWBIR- Buried TRU [PMX:#]

Subject: TWBIR- Buried TRU [PMX:#] To: slott@lanl.gov, crawford@lanl.gov

X-Mailer: Lotus Notes Release 5.0.8 June 18, 2001

From: TLC@inel.gov

Date: Fri, 19 Nov 2004 16:54:47 -0700

X-MIMETrack: Serialize by Router on LNMAIL03/ENT/INEEL/US(652HF552|November 03,

2004) at

11/19/2004 04:55:00 PM X-Proofpoint-Spam: 0

X-Perlmx-Spam: Gauge=XXXXXIIIIII, Probability=56%, Report="BASE64_ENC_TEXT,"

HTML_FONT_COLOR_MAGENTA, NO_REAL_NAME, SPAM_PHRASE_00_01,

WEB_BUGS, HAS X MAILER" X-PMX-Version: 4.7.0.111621

here it is again. didn't get all of Bev's address.

---- Forwarded by Thomas L Clements/TLC/CC01/INEEL/US on 11/19/2004 04:54 PM ----

Thomas L To: slott@lanl.gov, crawford@lanl.go Clements cc: CENTRAL CHARACTERIZATION PROJECT FOR TRU WASTE DISPOSITION/SP4/CC01/INEEL/US@INEL, Jeffrey N 11/19/2004 Perry@Exchange Pax to: 04:48 PM Subject: Assay Year

Sheila,

This email details our conversations regarding the waste streams coming

from the pre-1970 buried waste stream, IN-Z001, which resulted in five

waste streams. This summary includes all the changes we discussed.

The following applies to all of the waste streams:

- All1 waste is considered CH TRU waste for the pre-1970 waste that is being retrieved for the Idaho Completion Project.
- Use volumes reported by Jeff Perrry on November 4, 2004, for the five waste streams. (All containers are 55-gallon drums.)
- All1 radionuclides assigned to the waste streams are the same as reported for the IN-Z001 in the submittal for the 2003 update.
- Standard packaging materiials for 55-gallon drums will be used (i.e., 131 kg/m3 steel packaging materials and 37 kg/m3 for plastic packaging materials.)
- The inventory daate is 11/5/2004.
- The assay year is 1970 ((per data submittal dated May 1, 2003, "For

performance assessment purposes, it is suggested that decay be initiated on

January 1, 1970.â€□

Thhe inventory final form is projected to be processed in the

Printed for Beverly Crawford < crawford@lanl.gov 1.1.3.2:70:20

years from 2003 to 2012.

For the individual waste streams, the following should be used: $\hat{a} \in \text{CP} = \text{IN-Z001}$ contains 3,301 drums of undefined sludge, with the soil density as reported from IN-GEM-01. No other waste material parameters are

known at this time; therefore, the waste is an unknown final waste form

with the waste matrix code of U9999. The source of this waste stream is

INEEL Pit 1, 2, 4, 5, 6, 9, and 10.

• IN-Z002/IN-ICP-002 contains 39,943 drums of inorganic sludge (741 and 742 series), with the soil density as reported from IN-GEM-01. As we

discussed, the remaining waste material parameters should be assigned as

reported in IN-W228.101, a solidified inorganic sludge given lack of other specific data for pre-1970 disposed

inorganic sludge. The final waste form will be unknown homogeneous solids with the EPA codes of

D004, D005, D006, D007, D008, D009, D010, D011, D018, F001-F007, F009. This waste stream should have a waste matrix code of S3900. PCBs

are present in unknown concentrations. The source of this waste stream is

INEEL Pit 1, 2, 4, 5, 6, 9, and 10.

 \bullet IN--Z003/IN-ICP-003 contains 16,842 drums of organic sludge. It is understood

that WIPP used the RFETS TWBIR stream: RF-MT-0801 to provide a basis for waste material parameter $\,$

weights due to lack of other information specific to the pre-1970 disposed organic sludge.

The soil density that was used is as reported from IN-GEM-01. The final waste form is unknown other

homogeneous solids with a waste matrix code of S3900. EPA codes are D004,

D005, D006, D007, D008, D009, D010, D011, D018, F001-F007, F009. PCBs are

present in unknown concentrations. The source of this waste stream is Pit

1, 2, 4, 5, 6, 9, and 10.

• IN-Z004/IN-ICP-004 contains 3,472 drums of graphite waste based on

IN-GEM-01, a graphite-containing waste stream. The final waste form is

heterogeneous debris with a waste matrix code of \$5400. PCBs are present

in unknown concentrations. The source of this waste stream is Pit 1, 2, 4,

5, 6, 9, and 10. EPA codes are D004, D005, D006, D007, D008, D009, D010,

D011, D018, F001-F007, F009.

• IN-Z005/IN-ICP-005 contains 23,169 drums of fillter waste. The basis for the waste material parameters was IN-W211.001, a filter debris waste stream due to lack of other information specific to the pre-1970 disposed filters. The density of the soil in this waste stream is based on the IN-GEM-01 waste stream. The final waste

form is heterogeneous debris with a waste matrix code of \$5400. The source

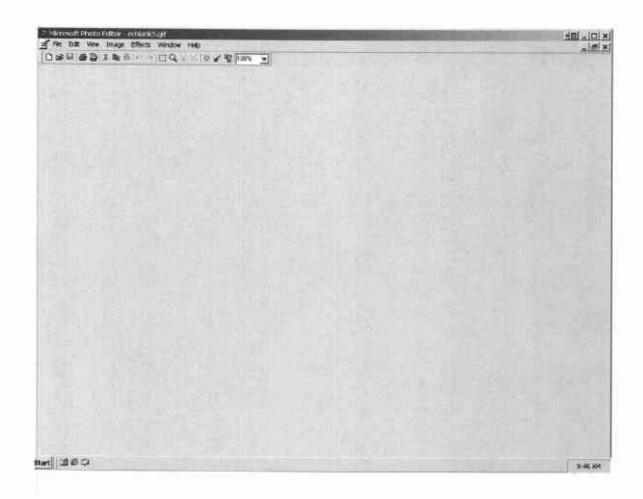
of this waste stream is Pit 1, 2, 4, 5, 6, 9, and 10. EPA codes are D004,

D005, D006, D007, D008, D009, D010, D011, D018, F001-F007, F009.

At this point, this is the best information and/or estimates that can be made with the time available. If you have questions, call me at 208-526-0664.

Tom





Information Only

Annex I TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NA	Handling:	СН	NMVP #:	NA	<u> </u>			Stream Na	me:	idaho Completi	ion Project –	Undefined Sludge		 -	Inve	ntory Date:	11/05/04 9/30/03
Local ID:	NA	Type:	TRU	Generator	Site:	IN		Final W	aste Form:	Unk	nown		Waste Matrix Cod	le: U99	99	TRU	CON Code:	0,00,00
	-GENERAT EPA CODES		<u>PARAMETE</u>		-	Avg	Min	Max	_	FINA	AL WASTE F				SITE IDCs	RAI Isotop	I FINAL FOR DIOINUCLI e <u>Activity</u>	<u>DES</u>
	Unknown		lron-	base Metal/Al	loys:						Defense:	Defense	TRU waste			Am-241 Am-243	3.28E+00 2.40E-03	
				base Metal/Al	•											Np-237 Pu-238	4.73E-05 3.06E-01	
			O	ther Metals/Al	loys:						Residues:	NO				Pu-239 Pu-240	1.16E+00 3.06E-01	
<u> </u>			Other	Inorganic Mat Cellulo					-		Asbestos:	Unknown	<u>.</u>			U-233 U-234	2.71E-05 1.21E-03	
				Rut	ber.	-		<u></u>	-							U-235 U236	9.93E-05 5.13E-05	
				Plas							PCBs:	Unknown	l			U-238	2.10E-03	
			Solidified	l, Inorganic Ma	atrix:													
				Viti	ified						Source:	INEEL PI	T 1, 2, 4, 5,6, 9, and	<u>10</u>				
			(ement (solidif	ied):													
			Solidified	l Organic Mat	arial:													
			Packag	5 ing Material S	oils: teel:	947.7 131.0		-										
			Packagii	ng Material Pla	stic:	37.0												
						As-Gon	erated Wa			DETAIL	_ (cu. Meters) nal Waste Form	Volumee						
Container	<u>Pit</u>		Stored 439 439	95-97 <u>9</u>	<u>98-02</u>	03-12		3-22	Totals	Contain 55-gal d	er	Stored	<u>ł 95-97</u> 645	<u>98-02</u>	<u>03-12</u> <u>645</u>	Totals 645		
As	-Generated Fo	m:	Stored: 4	39 439 Pn	ojecteo	<u>1:</u>		<u>otal</u> [439	Final W	aste Form:	Ste	ored 645	Projected	: <u>645</u>	Total: 6	645	
		STREAM CRIPTION	Pre-1970 buried v	aste retrieved	for the	ldaho Com	pletion Pro	jed .				<u></u>						
WA	ASTE STREAM DES	SOURCE CRIPTION																
CU	RRENT CON CON	TAINER MENTS	3,101 drums in fin	al form				_										

Blank Waste Stream Profile Form

Page 1 of 2 at 11/5/04

Management Comments- Soils have been added to this waste stream, but the other waste material parameters are unknown at this time. Radionuclides provided from IN-Z001 as reported for the 2003 inventory update.

TWBIRID: 14-2002-IN-ICP-002 pl 11/5/04

Annex J TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NA	Handling:	СН	NMVP#:	NA	.			Stream N	lame: Idaho Complet	on Project –	Inorganic Sludge (74 <u>1</u> 2	and 742 series)	.	Inventory Date:			
Local ID:	NA NA	Type:	MTRU	Generator	Site:	IN		Final W	aste Form:		<u>r</u>	Waste Matrix Code:	\$4000 <u>\$3900</u>	- -	RUCON Code:	9/30/03		
	<u> </u>			L						Homogeneous Soli	<u>s</u>							
	GENERAT		WASTE MATER							FINAL WASTE F	ORM DES	CRIPTORS	SITE IDCs	'	FINAL FOR			
Ē	EPA CODES	<u> </u>	<u>PARAMETE</u>	RS (kg/m	3)	Avg	Min	Max							RADIOINUCLIDES Isotope Activity (Ci/m³)			
	005, D006, D0		Iron-	base Metal/Al	lloys:				7	Defense:	Defense	TRU waste		Am-24	1 3.28E+00	(CMIII)		
D009, <u>D0</u>	010, D011, <u>D01</u> 0, F001, F002,	18, D022, E003	Aluminum-	base Metal/Al	llovs.			<u> </u>	-				L	Am-24 Np-23				
	001-F007, F00										<u> </u>			Pu-23	3.06E-01			
			U	ther Metals/Al	lloys:					Residues:	NO			Pu-23 Pu-24	3.06E-01			
			Other	Inorganic Mat	erial:	14.49								U-233 U-234				
				Cellulo	_	14.45			1	Asbestos:	NO			U-235	9.98E-05			
				Rut	ober:				_					U236 U-238	5.13E-05 2.10E-03			
						100				202	1000							
			Solidified	Plas I, Inorganic M i		1.99 127.17			-	PCBs;	N O Yes-u	nknown concentrations						
				Vit	rified					Source:	<u> </u>		_					
			_							Godice.	INEEL PL	14 4,5,6,9,00d10	·					
			, C	fied):														
			Solidified	l Organic Mat	erial:							12/1/04						
				9	Soils:		'	_	Ì									
			Packao	ing Material S		947.7 131.0					Ì		1					
													L					
	Packaging Material Plastic: 37.0																	
						As-Gene	erated Was			E DETAIL (cu. Meters) Final Waste Form	Volumes							
Container	67		Stored 9 5652	<u>95-97</u>	<u>98-02</u>	03-12		-22	Totals	<u>Container</u>	Stored		<u>8-02</u> <u>03-12</u> <u>8308</u>	<u>Totals</u>				
	<u>Pit</u>		5052						5652	55-gal drum	ĕ	308	8308	8308				
																Ì		
As	-Generated Fo	m:	Stored:	5652 <u>Pr</u>	ojected:			otal [5652	Final Waste Form:	Sto	ored 8308 Pro	ojected: <u>8308</u>	Total:	8308			
		STREAM CRIPTION	Pre-1970 buried w	aste retrieved	for the	ídaho Comp	letion Proj	ject.										
WA	STE STREAM DES	SOURCE CRIPTION																
CUI	RRENT CON	TAINER MENTS	39,943 drums in fi	nal form			Tr	fo	KIN	otion	Ωn	lw.						
							11	110	Pa	ge 1 0 f Z		y				-		
									,	7	s	115/04						

Blank Waste Stream Profile Form

Management Comments- Waste material parameters from IN-W228.101-solidified inorganic second stage sludge- with the addition of soil (50% by volume). Radionuclides provided from IN-Z001 as reported for the 2003 inventory update. Radionuclides provided from IN-Z001 as reported for the 2003 inventory update.



IN-ICP-003 AL 11/5/04

Annex J TRU WASTE BASELINE INVENTORY WASTE PROFILE

Ho Diz NA Hardling: CH NMP F: NA Stream Name: Idaho Completion Project - Organic Studge Inventory Date: 11/6	•												
AS-GENERATED EPA CODES AVg Min Max FINAL WASTE FORM DESCRIPTORS SITE IDCS FINAL FORM RADIOINUCLIDES Sloope_Debt. Doors. Do				NMVP#: NA		Handling:	NA	HQ ID:					
## Source:		Final \	IN	Generator Site:	MTRU	Type:	NA	Local ID:					
PARAMETERS (kg/ms)	HOMOGRIBOUS SOIIGS SER		1	<u> </u>		1							
PARAMETERS (kg/ms)	FINAL WASTE FORM DESCRIPTORS SITE IDCs FINAL FORM			MATERIAL	WASTE M	AS-GENERATED W							
Double D		Min Max	Ava										
Iron-base Metal/Alloys: Defense Defense TRU waste Am-241 3.28E+00 Am-243 2.40E-03 Np-273 4.77E-05 NO No No No No No No No		111111	, · · · · · · ·	ing marmi	77400000	<u> </u>							
Am-243 2.40E-03		T T T T T T T T T T T T T T T T T T T		base Metal/Allovs:	Iron-l	D005, D006, D007, D010, F001,							
D009, D011, D018 F001-F007, F009 Other Inorganic Material: Other Inorganic Material: Cellulosics: Asbestos: NO	Am-243 2.40E-03												
F001-F007, F009 Comment (solidified) Co			<u> </u>		_								
Other Inorganic Material: Cellulosics: Rubber: Plastics: 166.75 Plastics: 166.75 Solidified, Inorganic Material: Vitrified Cernent (solidified): Solldified Organic Material: Solls: 947.7	1 100,0000 1.0			ther Metals/Alloys:	O								
Cellulosics: Rubber: Plastics: Solidified, Inorganic Matrix: Vitrified Cerment (solidified): Solls: Solls: Cellulosics:		 		Inomanic Material:	Other I	<u> </u>	1001-1007,1009						
U-235 9.93E-05 U236 5.13E-05 U236 5.13E-05 U236 5.13E-05 U238 2.10E-03 U238				morganio matorizi.	95,011								
Pubber:				Cellulosics:									
Plastics: 166.75 PCBs: NGYes-unknown concentration Solidified, Inorganic Matrix: 955.49 Vitrified Cernent (solidified): Solls: Solls: 947.7		 	\vdash	Dodeti									
Solidified, Inorganic Matrix: Vitrified Cernent (solidified): Solls: Solls: 955.49 Source: INEEL PIT 1, 2, 4, 5, 6, 9, and 10 4				Hubber:									
Vitrified Source: INEEL PIT 1, 2, 4, 5, 6, 9, and 10 Cement (solidified): Solldified Organic Material: Solls: 947.7	PCBs: NOYes-unknown concentration		166.75	Plastics:									
Vitrified Source: INEEL PIT 1, 2, 4, 5, 6, 9, and 10 Cement (solidified): Solldified Organic Material: Solls: 947.7		<u> </u>	- AFF 40		o nate d								
Cement (solidified): Solidified Organic Material: Solls: 947.7			955.49	I, Inorganic Matrix:	Solidified								
Cement (solidified): Solidified Organic Material: Solls: 947.7	Source: INEEL PIT 1, 2, 4, 5, 6, 9, and 10			Vitrified									
Solldified Organic Material: Solls: 947.7					_								
Solls: 947.7				ement (solidified):	С								
Solls: 947.7		 	1032.33	l Omanic Material:	Solidified								
947.7													
				Solls:									
		-		ing Material Steel	Packagi								
				ing material otesi.	, acag								
Packaging Material Plastic: 37.0			37.0	ng Material Plastic:	Packagin								
WASTE VOLUME DETAIL (cu. Meters)	MARTE VOLUME DETAIL (ou Mahara)]											
As-Generated Waste Form Volumes Final Waste Form Volumes			As-Gene										
Container Stored 95-97 98-02 03-12 13-22 Totals Container Stored 95-97 98-02 03-12 Totals	3-22 Totals Container Stored 95-97 98-02 03-12 Totals			<u>95-97</u> <u>98-02</u>				<u>Container</u>					
<u>Pit</u> 2383 2383 55-gal drum <u>3503</u> 3503	2383 55-gal drum				2383		<u>Pit</u>						
As-Generated Form: Stored: 2383 Projected: Total 2383 Final Waste Form: Stored 3503 Projected: 3503 Total: 3503	otal 2383 Final Waste Form: Stored 3503 Projected: 3503 Total: 3503	<u>Total</u>	<u>d:</u>	2383 Projected	Stored:	m;	enerated For	As-G					
WASTE STREAM Pre-1970 buried waste retrieved for the Idaho Completion Project .	iad	WASTE STREAM Drn 1070 buried wards retrieved for the Idoba Completion Project											
DESCRIPTION	Jew.	ripletion ribject.	ie idano comp	asie lenieved (0) uii	FIG-1370 DUINEU W								
						_							
WASTE STREAM SOURCE						I		WAST					
DESCRIPTION				-		CHIPTION [DESC						
CURRENT CONTAINER 16,842 drums in final form –		 		nal form -	16,842 drums in fir	TAINER [RENT CON	CURE					
COMMENTS					1	I							

Blank Waste Stream Profile Form

Management Comments- Waste Material parameters are based on OASIS waste stream at RFETS – RF-MT0801; soils as reported in IN-GEM-01 and standard packaging materials with addition of soil (50%) by volume. Radionuclides provided from IN-Z001 as reported for the 2003 inventory update.



TWBIR ID: UN-2004

1N-1CP-004

2L 11/5/04

Annex J TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NA	Handling:	СН	NMVP #:	NA		I	Stream Na	ame: Idaho Completio	on Project – 0	Graphite		Inventory Date:	11/05/04 9/30/03
Local ID:	NA NA	Type:	MTRU	Generator Si	e: IN		Final Wa	aste Form:	Heterogeneous Deb	ris	Waste Matrix Code:	S <u>5</u> 4000	TRUCON Code:	0,00,00
	-GENERATI EPA CODES		WASTE M		Avg	Min	Max		FINAL WASTE FO	ORM DES	<u>CRIPTORS</u>	SITE IDCs	FINAL FOR RADIOINUCL Isotope Activity	<u>IDES</u>
D009, D0	005, D006, D00 010, D011, D01	8, F001,		base Metal/Alloy					Defense:	Defense 1	FRU waste		Am-241 3.28E+00 Am-243 2.40E-03	(52)
F002, F0	003, F004, F005 F007, F009	5, F006,		base Metal/Alloy ther Metals/Alloy									Np-237 4.73E-05 Pu-238 3.06E-01	
				<u> </u>				Residues:	NO			Pu-239 1.16E+00 Pu-240 3.06E-01		
			Other I	norganic Materi	59.40								U-233 2.71E-05 U-234 1.21E-03 U-235 9.93E-05	
				Cellulosid				1	Asbestos:	NO			U-235 9.93E-05 U236 5.13E-05 U-238 2.10E-03	
				Rubbe				1	DOD.				0-230 2.102-03	
			Solidified	Plastic I, Inorganic Matr				_	PCBs:	Unknown				
				Vitrific	ed				Source:	INEEL PIT	Γ <u>1,2, 4, 5, 6, 9, and 10-4</u>			
			C	ement (solidified	ı):			İ						
			Solidified	l Organic Materi	al: 224.00									ļ
				Soi	ls: 947.7									
			Packag	ing Material Ste		1								
			Packagir	ig Material Plast	ic: 37.0	1								
									DETAIL (cu. Meters)	4 - 1				
<u>Container</u>	<u>Pit</u>		<u>Stored</u> 9 491	9 <u>5-97</u> 98		nerated <u>Wa</u> 2 <u>13</u>	<u>ste Form V</u> 3- <u>22</u>	Totals	Final Waste Form \ Container 55-gal drum	Stored	. <u>95-97</u> <u>98</u> 722	3-02 03-12 Ic 722	<u>otals</u> 722	
As	-Generated For	m:	Stored:	491 Proje	cted:	I	otal [491	Final Waste Form:	Sto	red 722 Pro	jected: <u>722</u>	Total: 722	
		STREAM EXIPTION	Pre-1970 buried w	raste retrieved fo	r the Idaho Cor	npletion Pro	ject .							
WA	ISTE STREAM Desc	SOURCE CRIPTION												
CUI	RRENT CON	TAINER [3472 drums in fina	al form										
						I	110	rn	age 1 -6	Un	de 11/5/04	/		

Blank Waste Stream Profile Form

Management Comments- Waste material parameters from IN-GEM-01-a graphite-containing waste stream with soils (50% by volume) and standard packaging added. Radionuclides provided from IN-Z001 as reported for the 2003 inventory update.

Annex J TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NΔ	Handling:	СН	NMVP#.	NA				Stream Nar	me.	idaho Completi	ion Project	– Filters					1	Inv	entory Date:	11/05/04
											•	·								-	9/30/03
Local ID:	NA	Туре:	TRU	Generator	Site:	IN		Final W	aste Form:	Het	erogeneous Det	orisFilter	Was	ste Matrix Co	ode: S	54 <u>00</u> 4	0		TRU	CON Code:	
	GENERAT EPA CODES		WASTE MATERIAL PARAMETERS (kg/m³)			Avg	Min	FINAL WASTE FORM DESCRIPTORS Max								I	FINAL FORM RADIOINUCLIDES Isotope Activity (Ci/m³)				
D009, D	NA 005, D006, D00 010, D011, D01 003, F004, F00 F007, F009	8, F001,	Aluminum	base Metal/All base Metal/All	oys:	0.06 8.59 0.42					Defense:		e TRU wa	aste					Am-241 Am-243 Np-237 Pu-238 Pu-239	3.28E+00 2.40E-03 4.73E-05 3.06E-01 1.16E+00	
<u>F007, F009</u>			Other Metals/Alloys: Other Inorganic Material:			22.28		1	┨		nesidues.	INO							Pu-240	3.06E-01	
,			Othor	Cellulo: Rub	sics:	137.66 0.08					Asbestos:	NO			_				U-233 U-234 U-235	2.71E-05 1.21E-03 9.93E-05	
			Solidified	Plas I, Inorganic Ma		7.28					PCBs:	NO			_				U236 U-238	5.13E-05 2.10E-03	
			,		ified						Source:	INEEL F	PIT <u>1, 2,</u>	4,5,6,9 ar	nd 104						
			,	ement (solidifi	ed):										ŀ						
			Solidified	l Organic Mate																	
			Packag	S ing Material S	oils: teel:	947 <u>.</u> 7 131.0															
			Packagii	ng Material Pla	stic:	37.0												L			
								WAST	TE VOLUME (DETAI	L (cu. Meters)										
						As-Gene	rated Wa	aste Form	Volumes		nal Waste Form	Volumes									
Container	<u>Pit</u>		Stored 3273	<u>95-97</u> <u>9</u>	<u>18-02</u>	<u>03-12</u>	1	3-22	Totals 3273 5	Contair 55-gal	<u>ner</u> drum	Store	<u>ed</u> 4 819	<u>95-97</u>	<u>98-02</u>	2	<u>03-12</u> <u>4819</u>	<u>Tota</u>	<u>ls</u> 4819		
As	-Generated For	m:	Stored:	3273 <u>Pro</u>	jecteo	<u>t</u>] I	otal	3273 F	-inal W	Vaste Form:	S	Stored [4819	Projec	ted: [<u>4819</u>		Total:	4819	
WASTE STREAM Pre-1970 buried waste retrieved for the Idaho Completion Project.																					
WA	ASTE STREAM DESC	SOURCE CRIPTION																			
CU	RRENT CON COM	TAINER IMENTS	23,169 drums in fi	nal form					,												

Blank Waste Stream Profile Form

Page 1 of 2 tion Only

Management Comments- Waste material parameters from filter debris waste stream that has been emplaced – IN-W211.001 with soils added from IN-GEM-01 (50% by volume). Radionuclideş provided from IN-Z001 as reported for the 2003 inventory update.