COMMODITY INS	PECTION REPORT	CHECK RELOCATION	PROCUREMENT
CONTRACT NO.	COMMODITY Zirconium.	PROGRAM	INSPECTION REPORT NO.
GS-00-DS-(S)-43102	(baddelevite Ore	DNS	1 (FINAL)
RELEASE OR S/ I NO.	LOT NUMBER	REGION NO.	DATE OF INSPECTION
1 -F	N/A	DLA/DNSC Zone-2	18 July - 14 Sept 1988
PURCHASER OR CONTRACTOR		ADDRESS	
PHIBRO		1221 Ave of Americas New	v York. New York
CONSIGNEE XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XX	ADDRESS	
DLA/DNSC New Haven De	pot	New Haven, IN 46774	
PERSON CONTACTED (NAME &	TITLE)	LOCATION OF MATERIAL INSPECTE	0
Mr. Frederic W. Brook	s, Depot Manager	New Haven Depot New Have	en, IN 46774
INSPECTION, SAMPI	ING AND ANALYSIS	DESCRIPTION OF PACKAGING (INCL	UDE TYPE OF CONVEYANCE)
SAMPLES TAKEN (V)	ANALYSIS (V)	Zirconium (baddeleyite)	Rulk Material
BY CONTRACT SAMPLER/ ANALYST	BY PURCHASER OR CONTRACTOR	Zirconium (Daddereyrte)	bulk Material
BY INSPECTOR X	BYGOVERNMENTSANALYST	Original GSA-Form 46 Car	rd Information
WITHESSED YES NO	WITHESSED YES NO	New Haven Depot=======	====== 15,627,113 LBS
OTHER	TYPES OF ANALYSES NO. UNITS	DCSC Columbus, Ohio =====	====== 14,247,684 "
	PER	GSA/FPRS Jeffersonville.	IN=== 2,106,605
	PER		31,981,402 LBS
INSPECTION	IDENTITY OF SAMPLE		. 31,901,402 LDS
VISUAL . 100 %	FORWARDING DATE		15,990.70 SWI
DIMEMSIONAL %	SAMPLE NO.		
FOR MARKING %	LOT NO.		
DISTRIBUTION OF SAMPLES (G	VE COMPLETE ADDRESS)		
1	2		•

DESCRIBE METHOD OF INSPECTION, SAMPLING AND/ OR SAMPLE PREPARATION (USE ATTACHED SHEETS, IF NECESSARY)

Sub-Contractors: Dart Service Company - Outloading Operation

Jack Gray Transport Company - Transportation of Material

All trucks were decontaminated at dumping site, radiation monitoring was performed and all trucks were found to be below background level and released to normal service.

See Attached Receiving Reports.

ITEM OR LOT NO.	QUANTITY SAMPLED	QUANTITY ACCEPTED OR SOLD	QUANTITY REJECTED	APPR VALUE REJ	ROXIMATE QUANTITY ECTED	DESCRIPTION OF MATERIAL
		rs Of(Ore) rs Of(Base	16,255, 8127 Material) 1,624, 812	-94 526	LBS SWT LBS SWT	Zirconium (baddeleyite) Distribution Orig. & 1CC-DNI 1CC-DNI-5 1CC-DNO-5 1CC-DNO-5-NH 1CC-DNI-5-NH 1CC-DNI-5-WA
NEASON FOR I	IGNATURE)	Amiel				DATE

30 Sept 1988

rence McDaniel, Quality Assurance Specialist

Page 2
Contract # GS-00-DS-(S)-43102
Zirconium (baddeleyite) Relocation Project
Report # 1 Final

New Haven Depot		-		m 11c	11 0	una Dal Daga		
Pile # 111	Upen	Area 7-A		Type C	2101	rage Pad Base	•	
Height Of Pile	25'		٠.					
Width Of Pile	60		:					
Length Of Pile	285			* •				
	***	Original	GSA	form 46	Card	Information *	**	
Relocated from pile # 3, DCSC Columbus, Ohio	6, 7,	and 8				14,247,684	LBS	
Relocated from Pile # 1 GSA/FPRS Jeffersonville,	IN					2,106,605	LBS	
Material In Pile # 111 Located @ New Haven Depot	E				· .	15,627,113	LBS	· ·
		•				31,981,402	LBS	
		:				15,990.70	SWT	

The Zirconium (baddeleyite) material was dumped by the trucking company at base of pile and high piled by depot personnel with the use of a $1-\frac{1}{2}$ yard bucket hydraulic excavator.

The base material (contaminated) was high piled in a separate pile adjacent to pile # 111, this material is almost entirely stone and dirt(soil).

Zirconium From DCSC Columbus, OH Pile # 3, 6, 7 and 8		
Receiving Report # 19345, 19346, 19347 and 19348 Date Received 18 July - 9 Aug 88 (Ore)	15,135,030	LBS
Contaminated Base 9 Aug - 17 Aug & 14 Sept 88	887,346	LBS
Total Trucks of (ORE) Received 327 Trucks Total Trucks of (Base Material) 69 Trucks		
Zirconium From GSA/FPRS Depot Jeffersonville, IN Pile # 1		
Receiving Report # 19349 Dated 19 Sept 88 Received dates 31 Aug - 7 Sept 88 (Ore)	1,120,850	LBS
Contaminated Base Material Received dates 30 - 31 Aug and 7 and 8 Sept 88	737,280	LBS
Total Trucks of (Ore) 46 Trucks Total Trucks of (Base) 16 Trucks		

See attached receiving reports

	(Rood INSTRUC	RECEIVING REPO			NUMBERS DEPOT IDENTIFICATION			
31 August	, 19 88 -	1	DNSC NEW HAVEN DEPOT	CONTRACT	(6) (3100			
Septem	ber <u>, 1988</u> (<i>(Consignor)</i> /Jeffersonv:	INEW :	HAVEN, IN 46774	NSP	-(S)-43102			
Jerrerso	nville, Ind	Lalia	•	REPORT				
GOVERNMENT BA	L NO.	COMMERCIAL B/L NO.	ICAR NO.	19349 SEAL NO. I DELIVERED BY				
		1-Final Rele	i -	SEAL AU.	4	7 Transport		
			MATERIALS RECEIVED	<u> </u>	Todak Gra	Transport		
PACKAGES, NUMBER	LOT OR CODE		1	WEIGHTS				
AND TYPE	NUMBER	(Show gro	de where available)	GROSS	TARE	NET		
Bulk	Pile 1	ZIRCONIUM (BAI	ODELEYITE ORE)					
		Trucks Number	ed 1 - 46	3,608,825	1,487,975	2,120,850		
		TIMI OVDED BY D	EPOT PERSONNEL					
			icate reflects					
			net, gross, tare					
		weight.			1			
				•				
				,				
	4.2							
•					2.3			
	•		rsonville Site, Jeffe			2,106,605		
			ted to approximately	6% moisture	content.			
New Haven	Depot will i	eflect weight	of record			2,106,605		
1					·			
46 Truck			TOTAL	3,608,825	1,487,975	2,120,850		
REPORT ANY ASTR	RAY, DAMAGE, OVER 161. DISCREPANCY	AGE, OR SHORTAGE ON IN SHIPMENT REPORT		CERTIFICATION				
			I certify that the articles lis	sted on this report	have been rece	ived at this		
Mail origina	al and three copie	s of this report to:	depot for storage; a copy of record.	s report nas be-	en returned de C	Perumbent		
•			SIGNATURE	5 throw	2			
GENERAL S		ISTRATION (BCCS)	PREDERIC W. BROOKS			·		
			DEPOT MANAGER		рате 19 Sep 88			
GENERAL SERV	ICES ADMINISTR	RATION	<u> </u>	<u></u>	GSA FORM 13	1 (REV. 5-74)		

		NUMBERS						
		RECEIVING REPORTIONS on reverse befor			DEPOT IDENTIFICA	TION		
DATE RECEIVE	В	DECEIVED BY DT A DN	ISC NEW HAVEN DEPO	· :	CONTRACT	· · · · · · · · · · · · · · · · · · ·		
8 - 9 Aı	ചള 88		VEN, IN 46774	1	GS-00-DS-(S	5)-43102		
the state of the s	w (Consignor) Construction	Supply Center D)enot		NSP			
	, OH 43213	ouppry denter b	chor		REPORT			
					19348	}		•
GOVERNMENT E	GOVERNMENT B/L NO. COMMERCIAL B/L NO. CAR NO				SEAL NO.	DELIVERED BY	_	
	ise			Jack Gray	Transport			
PACKAGES,	1	Υ	MATERIALS RECEIVED		.,,	F 1 6 11 7 6		
NUMBER AND TYPE	LOT OR CODE NUMBER	(Show grad	DESCRIPTION		GROSS	EIGHTS	NET	
Allo III					GRU33	IANE	NE I	
Bulk	Pile 7A	ZIRCONIUM (BAD	DELEYITE ORE)					
		Truck Loads Nu	mbered 288-327		3,133,720	1,278,160	1,855,560	٠
in the second			•		•			
		UNLOADED BY DE	POT PERSONNEL			1		-
		Weight Certifi	cate reflects					
		1	net,gross, tare		•	į		
		weight.						
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Note: Tota	l weight of	four receiving	reports, 19345, 19	9346	, 19347 and	19348 =	15,135,030	lbs.
Weig	í		Defense Construct		the state of the s	ł i	14,247,684	lbs.
		f weight is cor	tributed to error	wit	h scales and	l comingli	ng =887,346	lbs.
of 2	irconium (Ba	ddeleyite Ore)	with gravel and o	ther	debris and	moisture		
	ent.							
				.				
New	Haven Depot	will reflect we	ight of record.				·	7
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40	Truck Loads		TOTA	L B	,133,720	1,278,160	1,855,560	
	TRAY, DAMAGE, OVER. 361, DISCREPANCY	AGE, OR SHORTAGE ON		(CERTIFICATION			
STANDAND FORM	WOYL DISCRETANCE	in Shirmeni Keruki	I certify that the article depot for starage; a cop					•
Mail origi	nal and three copie	s of this report to:	record.		<u> </u>	·		
			SIGNATURE (la	۵ س د	2000		
		ISTRATION (BCCS)	FREDERIC W BROOK	S	-	· ·		
WASHINGT	ON, DC 20407	• •	TITLE			DATE		
							o ·	
· .			DEPOT MANAGER			23 AUG 88		

RECEIVING REPORT (Read INSTRUCTIONS on reverse before completing form.)						NUMBERS DEPOT IDENTIFICATION			
DATE RECEIVED		RECEIVED BY DLA			CONTRACT				
1 - 5 Aug	Gust 1988	New	Haven, IN	46774	GS-00-DS	GS-00-DS-(S)-43102			
Defense	Defense Construction Supply Center Depot Columbus, OH 43213				NSP				
	<u> </u>				REPORT 1934	7			
COMMERCIAL B/L NO. CAR NO. 1-Final Release MATERIALS RECE				CAR NO.	SEAL NO.	SEAL NO. DELIVERED BY			
			S DECEIVED		Jack Gray	Transpor			
PACKAGES. NUMBER	LOT OR CODE		DESCRIPTION	1	T	WEIGHTS			
AND TYPE	NUMBER	(Show g	rade where ov	ailable)	GROSS	TARE	NET		
Bulk	Pile 7A	ZIRCONIUM (B	ADDELEYIT	E ORE)					
		Truck Loads	Numbered	177 - 287	8,731,820	3,523,560	5,208,26		
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111 Truck I				TOTAL	8,731,820	3,523,560 5	,208,260		
EPORT ANY ASTRA CANDARD FORM 36	Y. DAMAGE, OVERAGE. DISCREPANCY II	GE. OR SHORTAGE ON N SHIPMENT REPORT			CERTIFICATION	٧			
		of this report to:	I certify the depot for a record.	nat the articles lis starage; a copy of	ted on this repor this report has b	t have been recei een retained as a	ved at this permanent		
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WASHINGTON			FREDERIC	C W. BROOKS					
	÷*		Depot Ma	mager		DATE 11 Aug 88			
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DATE RECEIVED 25 - 29 Jul RECEIVED FROM (I Defense (Columbus, GOVERNMENT B/L PACKAGES, NUMBER AND TYPE	Ly 1988 Consignor) Construction OH 43213 NO. LOT OR CODE NUMBER Pile 7A	COMMERCIAL B/L N/1-Final Rel (Show ZIRCONIUM (Truck Loads	A DNSC New W Haven,] Iter C. Lease MATERIA DESCRIPTION BADDELEYT	CAR NO. LS RECEIVED No. 12 (12) LE ORE)	ED	REPORT 1934 SEAL NO. GROSS	S-(S)-43 <u>102</u>	/ Transpo
Defense (Columbus, GOVERNMENT B/L PACKAGES, NUMBER AND TYPE	Consignor) Constructio OH 43213 NO. LOT OR CODE NUMBER Pile 7A	On Supply Cen COMMERCIAL B/L N 1-Final Rel (Show ZIRCONIUM (Truck Loads	w Haven, lease MATERIA DESCRIPTION BADDELEYT	CAR NO. LS RECEIVED No. 12 (12) LE ORE)	ED	GS-00-DS REPORT 1934 SEAL NO.	DELIVERED BY Jack Gray WEIGHTS TARE	7 Transpo
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AND TYPE	NUMBER Pile 7A	ZIRCONIUM (Truck Loads	DESCRIPTION BADDELEYIT	ON Vailable) TE ORE)			W E I G H T S	NET
AND TYPE	NUMBER Pile 7A	ZIRCONIUM (Truck Loads	DESCRIPTION BADDELEYIT	ON Vailable) TE ORE)			TARE	
		ZIRCONIUM (Truck Loads	BADDELEYI	TE ORE)			TARE	
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		Truck Loads				8,479,340	3,445,870	5,033,4
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RECEIVING REPORT (Read INSTRUCTIONS on reverse before completing form.)				na for-)	DEPOT IDENTI	NUMBERS DEPOT IDENTIFICATION			
DATE RECEIVED					1				
	July 1988	MECEINED BY DI	A DNSC New	Haven Depo	OL CONTRACT				
ECEIVED FROM	(Consistor)		ew Haven, I	N 46774	GS-00-I	GS-00-DS-(S)-43102			
		n Supply Cent			NSP				
Columbus	OH 43213	n supply cent	er			REPORT 19345			
OCTUMBUS.	, 011 43213		•	•	REPORT				
OVERNMENT BY	L NO.	COMMERCIAL B/L N		•	193				
		3	L	CAR NO.	SEAL NO.				
	· · · · · · · · · · · · · · · · · · ·	1-Final Rel	ease		- 1	Jack Gray Tra			
PACKAGES.			MATERIAL	SRECEIVED	, and one of the state of the s				
NUMBER AND TYPE	LOT OR CODE NUMBER	6 1	DESCRIPTION	J		WEIGHT	· · ·		
		(Show	grade where av	oilable)	GROSS	TARE			
Bulk	Pile 7A	ZIRCONIUM (BADDELEYITI	E ORE)		TARE	NET		
		Transk London	N72 1 4						
.		Truck Loads	Numbered 1	1-68	5,234,300	2,196,5	60 3,037,		
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ANY ASTRAY.	DAMAGE, OVERAGE	. OR SHORTAGE ON SHIPMENT REPORT				2,130,360	3,037,740		
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COMMODITY INS	PECTION REPORT	CHECK SALES RELOCATION	PROCUREMENT
CONTRACT NO.	COMMODITY zirconium	PROGRAM	INSPECTION REPORT NO.
GS-00-DS-S-43102	baddeleyite ore	DNS	l Jeffersonville
RELEASE OR S/ I NO.	LOT NUMBER	REGION NO.	DATE OF INSPECTION
	n/a	DLA/DNSC Zone 2	8/30 to 9/8/88
PURCHASER OR CONTRACTOR		ADDRESS	10/30 60 3/0/00
see below			
CONSIGNEE OR SUBCONTRACTO	R	ADDRESS State Hwy 14, 3	miles east
DLA/DNSC New Haven De	mt	New Haven IN 46774	meres ease
PERSON CONTACTED (NAME &	TITLE)	LOCATION OF MATERIAL INSPECT	ED
INSPECTION SAMPL	ING AND ANALYSIS	7500-1-01-01-01-01-01-01-01-01-01-01-01-01	NUMBER TYPE OF COMMENTAL AND A
THOSE CONTON, SAME	- 1140 VIAO VIAVE 212	THRESCRIPTION OF PACKAGING LING	
SAMPLES TAKEN (√)	1	DESCRIPTION OF PACKAGING (INC	
	ANALYSIS (V)	material was containe	d in bulk ore form,
SAMPLES TAKEN (√) BY CONTRACT	ANALYSIS (√) BY PURCHASER OR CONTRACTOR	material was containe stored on improved gr	d in bulk ore form, avel base. Outloading
SAMPLES TAKEN (√) BY CONTRACT SAMPLER/ ANALYST	ANALYSIS (BY PURCHASER OR CONTRACTOR BY GOVERNMENT'S ANALYST	material was containe stored on improved gr was by front end load	d in bulk ore form, avel base. Outloading er into clean tractor/
SAMPLES TAKEN (√) BY CONTRACT SAMPLER/ ANALYST BY INSPECTOR	ANALYSIS (BY PURCHASER OR CONTRACTOR BY GOVERNMENT'S ANALYST	material was containe stored on improved gr was by front end load trailer units for tra	d in bulk ore form, avel base. Outloading er into clean tractor/
SAMPLES TAKEN (√) BY CONTRACT SAMPLER! ANALYST BY INSPECTOR WITNESSED YES NO	ANALYSIS (V) BY PURCHASER OR CONTRACTOR BY GOVERNMENT'S ANALYST WITNESSED YES NO	material was containe stored on improved gr was by front end load trailer units for tra	d in bulk ore form, avel base. Outloading er into clean tractor/
SAMPLES TAKEN (√) BY CONTRACT SAMPLER! ANALYST BY INSPECTOR WITNESSED YES NO	ANALYSIS (BY PURCHASER OR CONTRACTOR BY GOVERNMENT'S ANALYST WITNESSED YES NO. UNIT	material was containe stored on improved gr was by front end load trailer units for tra	d in bulk ore form, avel base. Outloading er into clean tractor/
SAMPLES TAKEN (√) BY CONTRACT SAMPLER! ANALYST BY INSPECTOR WITNESSED YES NO	ANALYSIS (BY PURCHASER OR CONTRACTOR BY GOVERNMENT'S ANALYST WITNESSED YES NO. UNIT PER PER	material was containe stored on improved gr was by front end load trailer units for tra	d in bulk ore form, avel base. Outloading er into clean tractor/
SAMPLES TAKEN (BY CONTRACT SAMPLERY ANALYST BY INSPECTOR WITNESSED YES NO OTHER	ANALYSIS (BY PURCHASER OR CONTRACTOR BY GOVERNMENT'S ANALYST WITNESSED YES NO. UNIT PER PER IDENTITY OF SAMPLE	material was containe stored on improved gr was by front end load trailer units for tra	d in bulk ore form, avel base. Outloading er into clean tractor/
SAMPLES TAKEN (√) BY CONTRACT SAMPLER! ANALYST BY INSPECTOR WITNESSED YES NO OTHER INSPECTION	ANALYSIS (BY PURCHASER OR CONTRACTOR BY GOVERNMENT'S ANALYST WITNESSED YES NO. UNIT PER PER	material was containe stored on improved gr was by front end load trailer units for tra	d in bulk ore form, avel base. Outloading er into clean tractor/
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See attachment.

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	is of ore is of clear	1 .	.425 swt .6375swt		zirconium (baddeleyite) ore and cleanup material in bulk form. O & lcc - DNI lcc - DNI-5 lcc - DNO-5 lcc - DNO-5NH lcc - DNI-5NH
REASON FOR		Clifford	E. Hinem	miema an, QAS	DATE
					CEA FORM

GSA FORM

Attachment to GSA Form 299
Zirconium ore (baddeleyite)
Jeffersonville, IN
RePort # 1, dtd 9/9/88

One (1) Pile of zirconium ore was stored at the Jeffersonville, IN storage site. A Project was setup to relocate the material, Pile # 1, to the DLA storage site at New Haven, IN.

The material was stored on a gravel base outdoors and contained by rail road ties stacked two (2) high around the Perimeter of the Pile. The Pile was also contained within a four (4) foot high chain link fence and the entire storage area was further contained within a eight (8) foot chain link fence.

Heavy vegetation had grown on the Pile and surrounding area Prior to this Project. This was removed by Personnel from the Sharonville. OH depot. As the four (4) foot fence was at the Pile base and had no gate, it was also removed for access. The eight (8) foot fence had a truck gate and was located far enough from the Pile so that it was not a Problem.

Material was loaded into clean tractor/trailer units by a frontend loader. All trucks were thre weighed at a scale owned and operated by B & G Enterprises, Inc. The trucks were supplied by Gray Trucking, Inc. and the front end loader and operator were supplied by IWT, Inc. Trucks and loader/loader operator were the same as the DCSC Columbus, Ohio zirconium relocation project.

After loading, the trucks were gross weighed to determine the net weight. No Problems were encountered during outloading.

Stored adjacent to this Pile. This material was shipped first to make access to the Pile easier. This is the reason for the large amount of cleanup from this Project. No Problems we're encountered during the cleanup. Radiological monitoring during and after the loading was accomplished using a Kugelfischer Model 5-0002 sn 308-687. The pile base was sectioned into 12 equal areas of about 17' by 14'. Each area had three holes dug by hand to about 10" deep. APProximately 12 oz. of material was then removed and bagged from each hole. This material (about 2 lbs per area) was then marked with location; type of material, site where collected, and date. These 12 samples were sent to the Sharonville Depot for forwarding to Oak Ridge, TN.

Each area was also monitored for radiation level after cleanup. Due to the very low levels, three readings per area were made at 30 second intervals. After several background readings from nearby were made, the average background level was determined to be about 17.07 uR/H. As can be seen on the attached Plot, the highest reading found on the old Pile base was 24.1 uR/H.

The 9rid markings were left on site until it has been determined that they are no longer needed.

Summary of outloading:

DATE	TRUCKS	SWT	MATERIAL
8,439	7	158.925	cleanuP
8/31		44.450	cleanuP
		180.825	cre
9/1	and the second s	348,7625	ore
9/2	12	277.775	意 [1] (量)
976	8	185.275	j"i¦"∙ j ".
9/7			P. 7 P.
27.1	3	67.7875	ore
	4	92.800	cleanur
978	. 3	.72.4625	cleanuP

TOTALS:

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46 loads of ore - 1060.425 swt
16 loads of cleanup - 368.6375 swt
62 loads total - 1429.0625 swt
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ALL MATERIAL HAS BEEN RELOCATED.

Clifford E. Hineman, QAS

11.7 15.3 A 21.0	20.6	19.6 u R/h 18.8 16.2	24.1 u R/k D 22.2 16.3	E 20.6	22.148/2 23.2 F 21.8
14'- 18.2 14.3 G 21.	3 24.5	17.6 20.8 21.2	23.1 J 24.0 21.6	20.7 K 22.1	18.5 16.4 22.1
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EACH SAMPLE IS QUE COMPOSITE OF 3 SAMPLE HOLES PER GRID,

READINGS Shown PER GRID IN UR/H. EACH READING AT 30 Sec. INT.
KUCELFISCHER MODEL 5-0002 SN 308-687 USED, (AUG. BACKGROUND= 17.074R/K)

PILE 1, ZIRCONION ORE Jeffersonuille, IN 9/8/88 C. HINEMAN, QAS

COMMODITY II	NSPECTIO	N REPOR	T CHEC	K ALES "RELOCAT	ION" PROCURI	EMENT
CONTRACT NO.	COMMODI	TY Zirconi	um PROG	RAM	INSPECTION REP	ORT NO.
GS-00-DS-(S)-43102		leyite) or		NDS	# 2	
RELEASE OR S/ I NO.	LOT NUM	BER	REGIC	N NO.	DATE OF INSPEC	TION
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PURCHASER OR CONTRACTO	OR .		ADDRI	ESS		
see below			ļ <u>.</u>			·
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DLA/DNSC New Haven PERSON CONTACTED (NAME		<u>ted Statio</u>	LOCA	Haven, India	NSPECTED	
INSPECTION, SAN	PLING AND	ANALYSIS		C Columbus, O	H ING (INCLUDE TYPE OF CO	NVEYANCE)
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BY INSPECTOR	BYGOVER	NMENT'S ANAL'			loaded by frontend	Toader
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ISPECTOR (SIGNATURE)	1 1111		`	*	DATE	
NSPECTOR (SIGNATURE)	Afga	E. Hinemar	nema		8/1/88	

Commodity Inspection Report # 2, Attachment

Zirconium (baddeleyite) ore Contract # GS-00-DS-(S)-43102 Defense Construction Supply Center (DCSC) Columbus, Ohio

to Defense Logistic Agency (DLA)
Defense National Stockpile Center (DNSC)
Consolidated Station Property
New Haven, Indiana

Outloading the bulk ore began 18 July 1988. This report covers the period 25 July thru 29 July, 1988.

During this period 97 tractor/trailer loads were shipped in tarped dump trailers. All trucks and operators and well as the loader and operator were the same as the previous week. The trailers are exclusive use during this project.

Only spot monitoring of the pile and trucks was performed this week due to the very low readings obtained the previous week. Readings remain approximately 2.5 mr on contact with the pile material (varies slightly lower or higher depending on location). Contact with the loaded trailer gives readings of 0.1 mr and levels within the cab were at background level or so close as to make any accurate reading difficult.

Each trailer was placarded with 5.5 inch by 10 inch placards reading "RADIOACTIVE LSA" on each side of the trailer.

Tractor/trailers are light/heavy weighed to determine net weights and tarped prior to departure.

Weather during this period was calm, dry, and hot. Weather was not a factor during this week. Material remained moist from previous weeks rain. This prevented dust during outloading. If needed, a fire hydrant adjacent to the pile was equipped with a hose, nozzle, and wrench to spray pile for dust control.

Changes from previous week include:

a) it was discovered that several sections of the piles at some time were bermed with 6 X 6 timbers with some timbers connected with 10 foot sections of 1/2 in steel cable. Most timbers were badly decayed but caused large pieces of wood to be mixed with the ore. Careful loading along with considerable hand picking was used to limit the trash shipped with the ore.

b) a lightning strike near the truck scale on 21 July shut off power to the truck scale. Power was not restored until 10:00 am 22 July. During the morning of 22 July, trucks were weighed on the scale at the steam station at DCSC located approximately 1/2 mile from the normal Yearly Road scale used for this

project..

2. REGION NO. ZONE 2 6. SCALE NO. Yearling Road 9. CAPACITY 100,000 1bs 13. PLACEMENT A PERMANENT 16. WEIGHING PERFORMED B 2. YES	3. SERIAL NO. 1 7. NAME OF MANUFACTURER TOLEGO SCALE 10. MINUMUM GRADUATION 10 1b L TEMPORARY Y AN OFFICIALLY-DESIGNATED WEIGHT AND COMMENT OF THE COMMENT	1. STORAGE FACILITY DCSC COLUMN 4. DATE OF LAST INSPECTION n/a 11. TYPE (Track, truck, portable, etc.) truck 14. SCALE IS X a COVERED	5. DATE OF THIS INSPECTION 7/28/88 8. MODEL NO. 12. WEIGHT INDICATED BY digital 15. EQUIPPED WITH WEIGHT RECORDING 15. EQUIPPED WITH WEIGHT RECORDING
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GSA FEB 70 2895



BRECHBUHLER SCALES, INC.

Canton • Cleveland • Columbus
Cincinnati • Mansfield • Parkersburg, W.Va. SALES — RENTALS — LEASING
24 Hour Service — Periodic Inspection
4070 Perimeter Drive

SCALE INSPECTION REPORT B

3442

Phone (614) 2		P.O.	#			Date: Z	-28	-68
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RM NO. 2

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GS-00-DS-(s)-		2	(Baddeleyite) Ore	NDS	#	·		
RELEASE OR S/ I NO	· .		LOT NUMBER	REGION NO.		E OF INSPECTION		
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Commodity Inspection Report #1, Attachment

Zirconium (Baddeleyite) Ore Contract #GS-00-DS-(s)-43102 Defense Construction Supply Center (DCSC) Columbus, Ohio to Defense Logistic Agency (DLA) Defense National Stockpile Center (DNSC) Consolidated Station Property New Haven, Indiana

Operation of outloading the bulk zirconium (baddeleyite) ore began 18 July 1988.

Dart Service Company, contracted by Philbro, New York, New York, provided the operator and payloader for the outloading operation.

Jack Gray Transport, Incorporated, Gary, Indiana, contracted by Philbro, New York, New York, provided the semi-dumps.

The first day of operation only seven (7) semi-dump vehicles were received. Being this, the first day of outloading we wanted to go slow in our operations to minimize any unanticipated gliches. There after, for the balance of the week, 15 vehicles were to be provided for each day of outloading.

Prior to outloading, each vehicle was placarded in accordance with 49 CFR regulations. The placards used were $5\frac{1}{2}$ x 10" bearing the words "Radioactive LSA" in black on a yellow background.

The truck scale was located approximately 150 yards from the outloading operation at DCSC. The scale is calibrated and weights are recorded on a scale ticket. In addition, the weights are recorded automatically in a computer. All trucks were light and heavy weighed.

After scaling of the vehicle, the drivers pull-off to the parking area and tarp down their vehicles. At this point, the vehicles are surveyed with a E-120 survey meter. The readings obtained at the sides were consistant at 0.1 mr/hr and in the cab 0.06 to 0.08 mr/hr. The variation in the cab was due to the length, away from the trailer, which varied.

The straight bill of lading issued to all drivers was made up in accordance with 49 CFR regulations which also included "Exclusive Use Transportation Vehicle". The driver signed off accepting the load and proceeded on his way.

The first week operations a total of 68 semi-trucks were loaded for a total of 1,518.87 swt of bulk ore shipped to the New Haven (CASAD) Consolidated Station, New Haven, Indiana.

Grom Jeffersmville, In to New Waven, In (ontract Cs-00=DS (S) 43/02 Met We subtotal te Material No Trucks 317,850 317,850 Aug 88_base pide 88,900[±] <u>406,750</u>± Aug 88 base jule 3.61,650 Aug 88 ore 8_ 697,525 5ep 88 ore 15 555,550 Sep 88 ... ore 12 3,70,550 Sep 88. a se 135,575 2,120,850 Sep 88 * Yatal of one only 46 trucks 1,85,600 <u>**</u> 592,350 Sep 88 Cleanup ** Tatal of base pile & cleanup 13 trucks

Zironium du Relocation

7567.51 9 Aug palames forwarded = 327 truchs ore = 15, 135, 030 5 truck champ = 239, 500 Week 4 Cleany Duly below?
Date Junk Act wt. Total ret. 9 Aug 5 239,500 239,500 989,840 1,229,340 10 Aug 21 subtotal = 26 785,180 2,014,520 11 Aug 17 mittotal = 43 12 Aug 10 Subtotal = 53 15 Aug 2 Subtotal = 55 16 Aug 4 Subtotal = 59 2,474,800 -(2,474,800) 460,780 93,160 2,567,960 2,754,820 186,860 17 Aug 2 92,280 2,847,100 1423.55 SWT

Inventory 46 Cord (7,123.84 SDT Zirconium (Baldeleyte) ore Relocation-DCSC, Columbus, Oh 70, Cesad Depol, new Horen, In Trucks 5w7 1,518.87 1st Week Ind Week 2,5/6.73 108 3 nd week 2,604.13 111. 4th Week 40 927.78 TOTALS 7,567.51) SWT 327 - 454.05 H20 Set 7,113.46 SOT Ed H20 0.06 x 7567.51 End of Maleural out looding (7/23.84) 5 Truckes of contaminated material Okupped 8/9/88 Gran Material 327 Truck of one. 8991.06 8/10/88 - 21 Trucks contaminated 977.60 additional 8/11/88 - 7 1/15 Trush 00 for Today · 2000 £ 7567.5) 15,135,030 65

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		RECEIVING REPORTIONS on reverse before		NUMBERS DEPOT IDENTIFICATION			
31 August	, 1988 - ber 1988	· 1	NSC NEW HAVEN DEPOT IAVEN, IN 46774	CONTRACT GS-00-DS-	-(S)-43102		
RECEIVED FROM	(Consignor) /Jeffersonvi	lle Site		NSP	(0) ,0202		
	nville, Indi			REPORT	·		
				1934	49		
GOVERNMENT BA	L NO.	COMMERCIAL B/L NO.	CAR NO.	SEAL NO.	DELIVERED BY		
		1-Final Relea	se		Jack Gray	/ Transport	
PACKAGES.	· · · · · · · · · · · · · · · · · · ·	<u> </u>	MATERIALS RECEIVED	1			
NUMBER AND TYPE	LOT OR CODE NUMBER		ESCRIPTION de where available)	WEIGHTS			
ביון עווע				GROSS	TARE	NET	
Bulk	Pile 1	ZIRCONIUM (BAD	DELEYITE ORE)				
		Trucks Numbere	d 1 - 46	3,608,825	1,487,975	2,120,850	
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Weight of	record (GSA-	Form 46) Jeffe	rsonville Site, Jeffe	rsonville, I	M =	2,106,605	
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New Haven	Depot will i	eflect weight	of record			2,106,605	
						, ,	
46 Truck	Loads		TOTAL	3,608,825	1,487,975	2,120,850	
		AGE, OR SHORTAGE ON		CERTIFICATION			
STANDARD FORM	JOI. DISCREPANCY	IN SHIPMENT REPORT	I certify that the articles lis		have been rece	ived at this	
Mail origin	al and three copie	es of this report to:	depot for starage; a copy of record.	this report has be	en retained as	a permanent	
			SIGNATURE	2 Wroo	la .		
	SERVICES ADMIN DN, DC 20407	ISTRATION (BCCS)	FREDERIC W. BROOKS				
			DEPOT MANAGER		19 Sep 88		
GENERAL SERV	ICES ADMINIST	RATION	<u> </u>	<u> </u>	GSA 13	31 (REV. 5-74)	

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COM	MODITY	INSPECTIO	N REPO	~1	ECK SALES	"RELOCATION"	PROCUREMENT	
CONTRACT	10.	COMMODI	TY Zircon		GRAM		INSPECTION REPORT NO.	
GS-00-DS	-(s)-43102	2 (badde	leyite) or		NDS		# 2	
RELEASE OF		LOT NUM			ION NO.		DATE OF INSPECTION	
1F			100	וח ו	A/DNS	Z/Zone 2	25-29 Jul 88	
PURCHASER	OR CONTRACT	TOR		***************************************	RESS	c, Boile B	1 23 23 861 88	
see belo	W							
CONSIGNEE	OR SUBCONTR	ACTOR (CAS	AD)	ADE	RESS	State Hwy 14	, 3 miles East	
DLA/DNSC	New Haven	Consolidat		on Ne	w Have	en. Indiana 46		
PERSON CON	TACTED (NAM	E & TITLE)				MATERIAL INSPEC		
	Grand State of Ali	e Salago y a company		l pc	'SC Col	umbus, OH		
INSF	ECTION, SA	MPLING AND	ANALYSIS				CLUDE TYPE OF CONVEYANCE)
	S TAKEN (V)		(NALYSIS (V)					
BY CONTRACT SAMPLER/ ANA	LYST	BY PURCHAS CONTRACT	ER OR				m, zirconium (baddeley	rite
BY INSPECT	OR	BYGOVER	NMENT'S ANAL				ed by frontend loader	
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Jack see page	Service Co Grey Trans two for th	ompany ou sport, Inc. nis week (2	tloading - transp) of opera	operation orter of mation.	s nateri		LVENSUB VE	
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		Clifford B	. Hinemar	. OAS			8/1/88	
		L Dittion	. فأنه الساد مصمد	تعنير و،			0/1/00	

COMMODITY I	NS	PECTION REPORT	CHECK SALES RELOCATION	PROCUREMENT			
CONTRACT NO.		COMMODITYZirconium	PROGRAM	INSPECTION REPORT NO.			
GS-00-DS-S-43102		(baddeleyite) ore	DNS	5 (final)			
RELEASE OR S/ I NO.		LOT NUMBER	REGION NO.	DATE OF INSPECTION			
1F		n/a	DLA/DNSC Zone 2	15-18 Aug 1988			
PURCHASER OR CONTRACT	OR		ADDRESS				
see below							
CONSIGNEE OKX SOURCE OF THE CONSIGNEE OKX SOURCE OF THE CONSIGNEE OF THE C			ADDRESS State Hwy 14, 3 r	miles east			
DLA/DNSC New Haven	Dep	xot .	New Haven, IN 46774				
PERSON CONTACTED (NAM	E & T	TTLE)	LOCATION OF MATERIAL INSPECTE	- -			
			DCSC Depot Columbus, OH				
INSPECTION, SA	MPL	ING AND ANALYSIS	DESCRIPTION OF PACKAGING (INCLUDE TYPE OF CONVEYANCE)				
SAMPLES TAKEN (V)		ANALYSIS (V)					
BY CONTRACT SAMPLER/ ANALYST		BY PURCHASER OR CONTRACTOR	Material in bulk form,	zirconium			
BY INSPECTOR		BY GOVERNMENT'S ANALYST	(baddeleyite) contaminated soil, outloaded by front-end loader into				
WITNESSED YES	ΝО	WITNESSED YES NO					
OTHER		TYPES OF ANALYSES NO. UNITS	tractor/trailer units	for transport			
		PER					
		PER	Cleanup material is th				
INSPECTION		IDENTITY OF SAMPLE	to be removed from und	-			
VISUAL	%	FORWARDING DATE	near former piles to m	reduce radiation levels			
DIMEMSIONAL	%	SAMPLE NO.	to required levels for	unrestricted use.			
FOR MARKING	%	LOT NO.					
DISTRIBUTION OF SAMPLES	(GIV	/E COMPLETE ADDRESS)					
1		2,	3				
· · · · · · · · · · · · · · · · · · ·							
DESCRIBE METHOD OF INSPE	CTIC	N. SAMPLING AND/ OR SAMPLE P	REPARATION (USE ATTACHED SHEE	ETS, IF NECESSARY)			

Contractor:

Dart Service Company - outloading operation. Jack Gray Transport, Inc. - transporter of material.

See attachment for this weeks information.

ITEM OR LOT NO.	QUANTITY SAMPLED	QUANTITY ACCEPTED OR SOLD	QUANTITY REJECTED	APPROXIMATE VALUE QUANTITY REJECTED	DESCRIPTION OF MATERIAL
8 tract	or/trailer	s - cleanu	- 186.15	swt	cleanup material in bulk form 8 trucks - 186.15 swt
					O & 1cc - DNI 1cc - DNI-5 1cc - DNO-5
					lcc - DNO-5NH lcc - DNI-5NH
REASON FOR	REJECTION		MM	7/	lcc - DNI-5WA
INSPECTOR (S	IGNATURE)	Cliffo	ord E. Hine	Junina,	~ 19 Aut 1988

Commodity Inspection Report # 5, Attachment

Zirconium (baddeleyite) ore cleanup material Contract GS-00-DS-S-43102 Defense Logistics Supply Center (DCSC) Columbus, OH

Shipped to:
Defense Logistics Agency (DLA)
Defense National Stockpile Center (DNSC)
New Haven Depot
New Haven, IN 46774

Outloading of ore began 18 July 1988. This report covers the period 15 Aug thru 18 Aug 1988. All ore has been relocated. This weeks shipments complete the outloading of cleanup material. Trucks used are some of the same trucks used in previous weeks. The loader and operator remain the same.

Out loading 15 Aug showed a larger amount of ore than previously believed had sunk into the old dump sight discovered under the piles. This required 2 more truckloads of material to be shipped than planned.

An Eberline E-120 and a FAG Kugelfishcher model 5-0002 Geiger counter were used to locate areas that required additional cleaning. These areas were scraped with the bucket of the frontend loader and material removed until sufficiently cleaned.

Weather this week was dry with temperatures of 95 to 100 in the afternoon. As last week, a hose connected to the fire hydrant was used to control dust where needed.

Mr. Kevin Reilly, Mr. Harry Szczepanski, and myself laid out a grid system for soil sampling on Wednesday. Holes were drilled using a 2 man gas powered auger. Soil samples were collected by Kevin Reilly. This work was completed on Thursday morning. Mr. Reilly was satisfied with the results and I returned to the Warren Depot Thursday afternoon.

A total of 8 trailers were loaded and shipped with a total net weight of 186.15 swt.

All ore has been shipped. All required cleanup material has been shipped. Soil sampling is completed. Per telephone conversation with Harry Szczepanski on 19 Aug 1988, NRC inspectors have tentatively approved the cleanup although not all tests are final. Project appears complete at this time pending final release of site by the NRC for unrestricted use.

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			en, India			COMM	IODITY 🛊				4.CODE				
5A. Date	e of Last Inspe		6. TYPE												
5, ii 5 ui	08 Apr 97			E AND											
5B. Date	e of This Inspe	ction	SPECIFIC	c •	OUTSID	E STO			Piles 111 and 111-						
	06 May 98		DEPOT A		INSIDE			arehouse 214,	Sections 3 and 4						
7. NA	ME AND T	TLE O	F PERSO	N RESP	ONSIBL	FOR	MATERIAL		7A. TEL. NO. OR (78. EXTENS				
			Mr. Fred	eric W. B	rooks, D	epot Ma	anager		(219)749-	-5953	N/A	-			
			INSPEC	TION DA	TA (Chec	k and	complete. Expla	ain negative res	ponses) N/A		YE	S NO			
8 ST(ORAGE	A Sto	rage Facilit	ies Are of t	he Type P	rescribe	d in the Storage M	fanual							
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O MAA	TERIAL	A Mat	erial is Sto	red in the	Manner Pro	escribed	in the Storage Ma	anual							
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10 D	ECORDS	A Der	. Material is Free of Deterioration, Infestation, Contamination, Commingling, Migration and Erosion . Depot Manager Confirmed that all entries have been Posted												
IU. K	_001103	B Der	not Posting	s indicate la	ast RR No	. date	d ; Last OSR 1	vo dated							
11. U	MITS	Ouanti	Depot Postings indicate last RR No. dated ; Last OSR No. dated antity Indicated in 14h reflects Depot Posting and agrees with actual and/or computed count												
	ECURITY	Secur	ecurity and Fire Protection are being provided in accordance with												
	D FIRE	Quali	Quality Assurance and Material Inspection Handbook												
	TECTION		Storage M				JOH HAMADOOK								
13.	TECTION	A Ma	torial is	Stored in	Proper C	ontaine	ers (Check only if	applicable)							
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15. RE	MARKS (Re: Facilii	eview all lies." and	otner approp I. if deficienc	inate questi ies are foun	ons contain d, give the	eu III. yu. appropria	ite guide numbers a	nd complete details	in this block)						
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15. RECOMMENDATIONS (Not to be construed by storage depot of facility as authorization to proceed with remedial measures beyond the scope of usual authority)

SEE CONTINUATION SHEETS

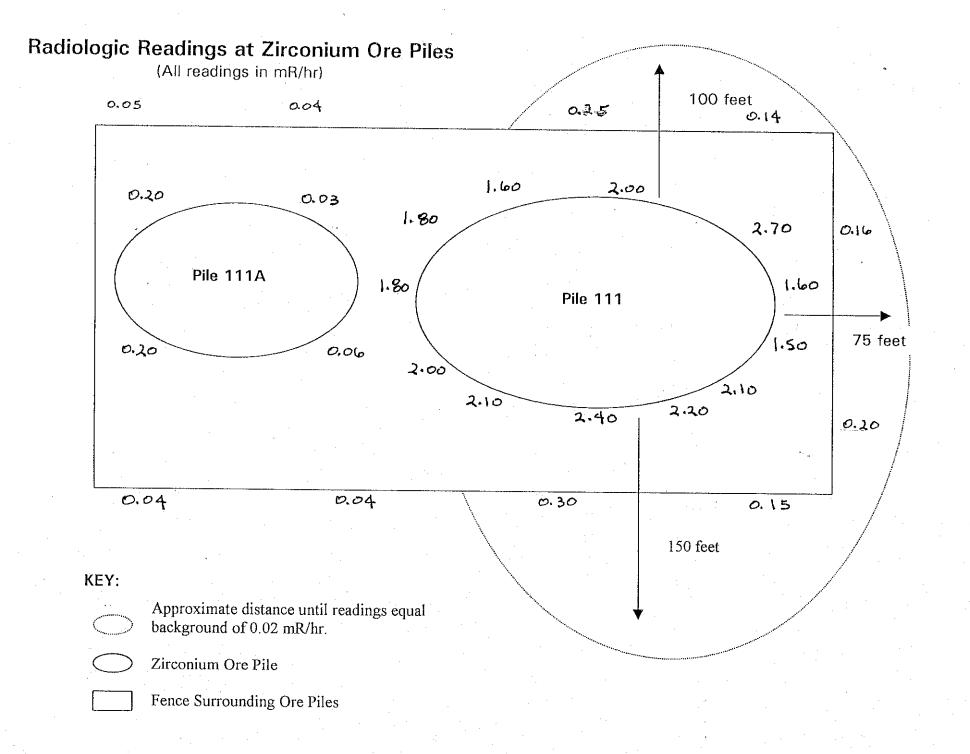
17. DISTRIBUTION	[1] DNSC-MQ [1] ORIGINATING DEPOT [1 STOCKPILE OP. DIVISIO	[1] SUPERVISORY QA [4] OTHER(SPECIFY) DNSC-MQBI,ME,MQBR,MC N	<u> </u>
18. NAME OF QUALITY ASSUR Mary L. Davidson, QAS	ANCE SPECIALIST (Type of print)	18A. SIGNATURE	18B. DATE OF SIGNATURE 21 May 98



DEFENSE LOGISTICS AGENCY DEFENSE NATIONAL STOCKPILE CENTER NEW HAVEN DEPOT 15411 DAWKINS ROAD NEW HAVEN, IN 46774-9644

FACSIMILE TRANSMISSION

NUMBER OF PAGES (Including this one)	Message Priority [] كاrgent
FROM: BILL TILL	[] Routine FAX: 219-749-8467 VOICE: 219-749-9544
то:КР	LOCATION: Somerville Depo
FAX:	VOICE: 908-707-4350
DATE: 11-15-00	TIME: A W
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MONITORING RADIATION REPORT

Monitors:

Bill Till

Date:

27 May 99

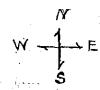
(See para. 4 of attached report)

Report No.: 7

Time	Location	Object or Person Monitored	Instrument Used	Shield	Distance	Range	Reading	Dose Rate	
N/A	Pile 111	Zirconium Oré Pile	FAG Meter	N/A	contact		1.70-3.00 mR/hr		· · ·
11	Pile 111A	Zirconium Ore Pile	FAG Meter	N/A	contact			0.03-2.20 mR/hr	
11		Fence surrounding piles			contact		0.02-0.28 mR/hr	0.02-0.28 mh/hr	
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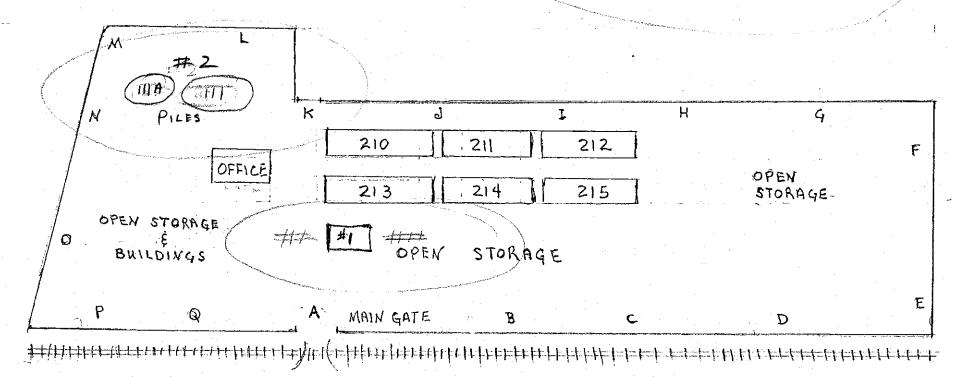
Note:	Readings	are	in	mr/hr

RADIOLOGICAL MONITOR SURVEY PERIMETER FENCELINE NEW HAVEN DEPOT



Locatio	ons	• • «												•	√.	
A	В	С	D	E	F	G	H	I	J	K	L	M	N	Q.	$\mathbf{P}_{N}^{(i)}$	Q
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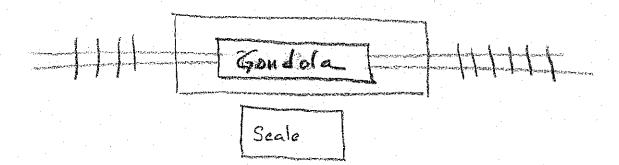
#1 Track + Truck Scales
#2 Ore piles 111 + 111A



INDIANA STATE HIGHWAY 14
NOW Dawkins RL

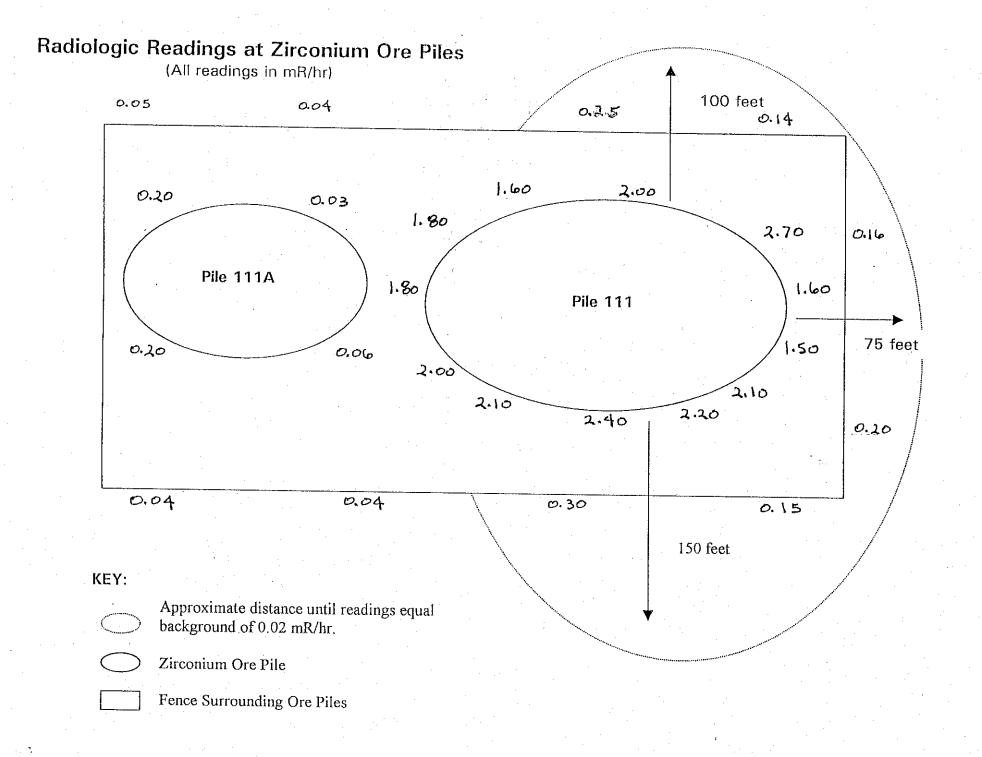
background 0.02 mR/hr 0.03 mR/hr

Sample



while ear is on seale or near by, take reading in a manor of your descressim.

ete. (contact out to background.)



MONITORING RADIATION REPORT

Monitors:

Bill Till

Date:

27 May 99

(See para. 4 of attached report)

Report No.:

. 7

Time	Location	Object or Person Monitored	Instrument Used	Shield	Distance	Range	Reading	Dose Rate	·
N/A	Pile 111	Zirconium Ore Pile	FAG Meter	N/A	contact		1.70-3.00 mR/hr	1.70-3.00 mR/hr	
11	Pile 111A	Zirconium Ore Pile	FAG Meter	N/A	contact			0.03-2.20 mR/hr	
[4		Fence surrounding piles			contact		0.02-0.28 mR/hr	0.02-0.28 mh/hr	
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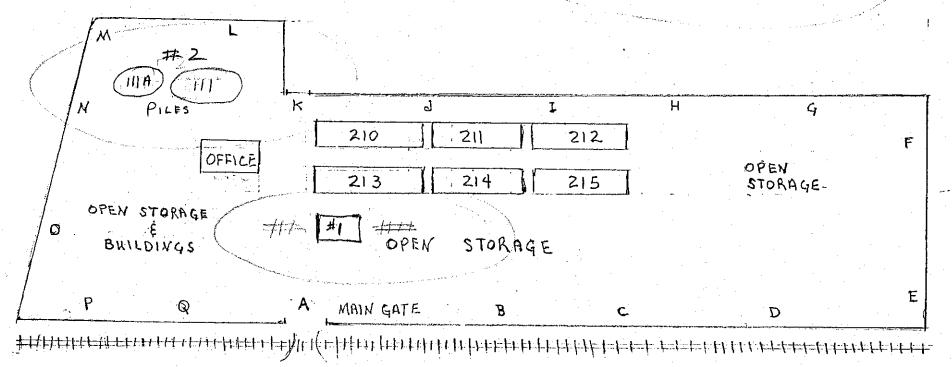
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RADIOLOGICAL MONITOR SURVEY PERIMETER FENCELINE NEW HAVEN DEPOT

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Locations														1.		
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#1 Track+Truck Scales
#2 Ore piles 111+111A



NOW Dawkins RL

BILL TILL WEN HAVEN

Cc. (015

JUN 2 3 1999

DNSC-MQ

MEMORANDUM FOR DNSC-MO and DNSC-ME

SUBJECT:

Radiation Posting-New Haven, IN

The attached Addendum (e:mail message dated 6/23/99) to Radiological Survey # 7 indicates that "Caution Radiation Area" signs are posted around the zirconium ore piles and inside section 3 of warehouse 214. These signs should be removed; the dose rates do not exceed the 5.0 mR/hr noted in the Jan 14, 1999 amendment to the DNSC Occupational Radiation Protection Program.

The fence around the ore piles should be posted with "Caution-Radioactive Material(s)" signs.

TARREST N. J. PURILLAN

PETER O.I.M. PORTON
Chief, Quality Assurance &
Technical Services Division

Attachment

MQNH

cc: Off. File, DNSC-MQWA

DNSC-MQ:MPECULLAN:mjp: 767-7620:6/23/99

Author: william till at ccpo14

Date: 6/23/99 9:07 AM

Priority: Normal Receipt Requested

TO: michael pecullan at ccpo14, Frederic Brooks at ccpo14, Lois Huddlestun at ccpo14,

Charles Delhoste at ccpo14

Subject: Addendum to Radiological Survey # 7

The following information is an addendum to the subject report:

The signs posted around the Ore Piles 111 &111A on the fence read, "Caution Radiation Area".

Each bay containing radioactive material is marked with a yellow band saying "Caution Radiation Hazard". There are signs in these areas that read "Caution Radiation Area" and Caution Radioactive Material".

The material in bays 9, 18, 28 is restricted by signs reading "Caution Radiation Area". Bays 16, 17, 34, 77 are also restricted.

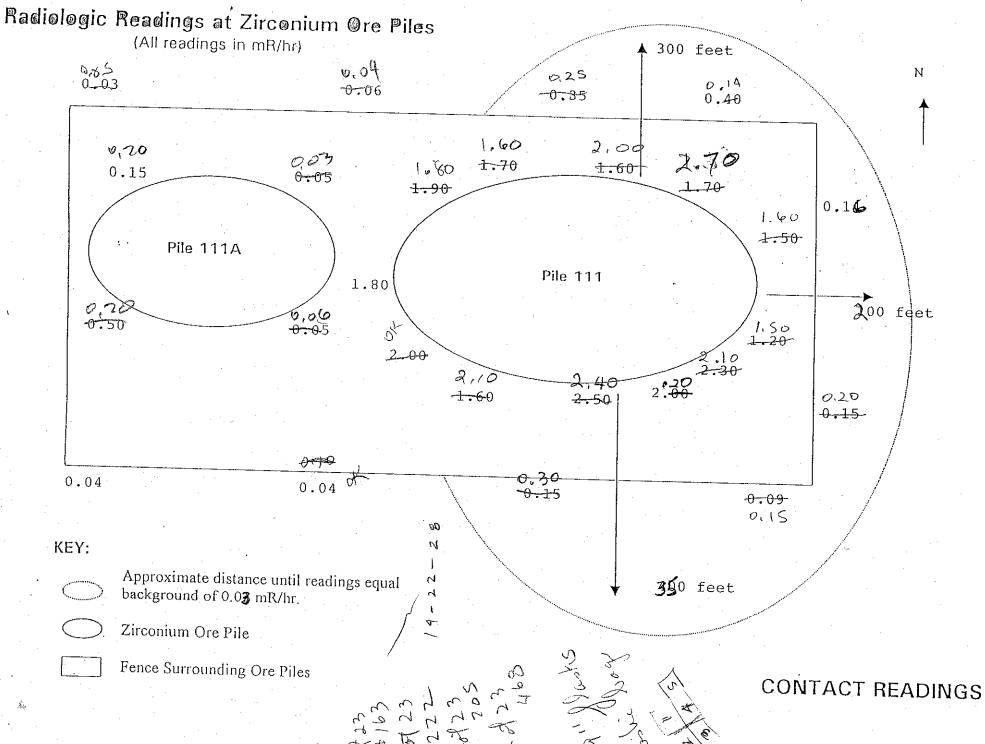
There is a letter on file at New Haven Depot with all the names of the personnel receiving Radiation Training dated 7/15/98.

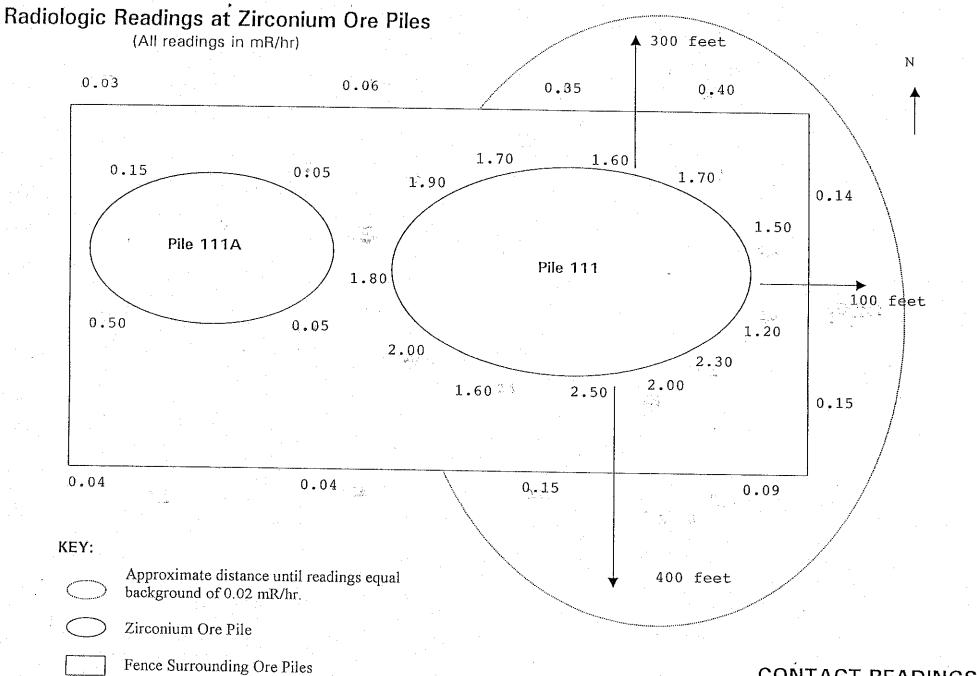
The FAG Meter was calibrated on 11/13/98 and the due date is 11/13/99.

Bill Till

READINGS TAKEN IN CONTACT WITH MATERIAL (All readings in mR/hr) WAREHOUSE 214, SECTION 3

	DOOR			DOOR			DOOR			DOOR	
Bay 71		Bay 61	Bay 51		Bay 41	Bay 31		Bay 21	Tamp	-15	Bay 1
Bay 72		Bay 62	Bay 52		Bay 42	Bay 32		Bay 22	Bay 12	.2	Bay 2
Bay 73		Bay 63	8ay 53		Bay 43	Bay 33		Bay 23	Bay 13	0.08 + 2	Bay 3
Bay 74		Bay 64	Bay 54	135°	Bay #4	Bay 34	0.3 .25	Bay 24	Bay 14	35، چو	Bay 4
Bay 75		8ay 65	Bay 55	1)/	Bay 45	Bay 35		Bay 25	Say 15	07·15	Bay 5
Bay 76		Bay 66	Bay 56		Bay 46	Bay 36	_	Bay 26	Say 16	0.3	Bay 6
Bay ??	220	Bay 67	8ay 57		Bay 47	Bay 37	,05	8ay 27	Bay 17	0.25 —	Bay 7
Bay 78		Bay 68	Bay 58		Bay 48	Bay 36	0:08 0.9		Bay 18	.40	Bay 8
Вау 79		8ay 89	Bay 59		Bay 49	Bay 39	200	Bay 29	Bay 19	0:65	Bay S
	DOOR			DOOR			DOOR		<u> </u>	/60 DOOR	





CONTACT READINGS

