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WYOMING OFFICE 5880 ENTERPRISE DR., STE. 200 CASPER, WY 82609 TEL: (307) 265-2373 FAX: (307) 265-2801

LOST CREEK ISR, LLC

July 18, 2017

Information Systems Manager U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration Office of Hazardous Materials Safety DHM-63 Washington, D.C. 20590-0001

40-9068

AND

ATTN: Document Control Desk U.S. Nuclear Regulatory Commission Washington, D.C. 20555-0001

RE: Hazardous Materials Incident Report Submittal for the Lost Creek ISR Project for DOT Report Number 1181739 on June 20, 2017. Lost Creek ISR Project SUA-1598

To Whom It May Concern,

This report has been submitted in conjunction with the incident report to the National Response Center (#1181739) in accordance with 49 CFR 171.15 and 171.16 for the Lost Creek ISR Project for an incident involving the minor spill of Class 7 material. Although the conditions of this event do not require notification as described in the "Guide for Preparing Hazardous Materials Incidents Reports", notification had already commenced prior to that determination. Therefore, this report fulfills the requirement for 30 day post incident reporting. The event occurred during loading of a contract carrier trailer that was not connected to a power unit since the power unit was not scheduled to arrive for transport until two days later at which time all loading operations would have been completed. Nonetheless, the following is a summary of the incident that occurred on June 20, 2017.

The incident occurred at the Lost Creek ISR Project facility during the loading of drums into a contract carrier conveyance (53 foot enclosed cargo trailer) via forklift fitted with a drum carrying apparatus. The Heath Physics Technician (HPT) and two maintenance workers were involved in the loading operation of packaged uranium yellowcake (U_3O_8 , 1A2 drums, Lot # LC-060D). The forklift operator (maintenance worker certified on forklift) was positioning a drum between the trailer wall and another loaded drum with the forklift when the drum carrying apparatus accidentally struck

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the adjacent drum causing a rupture. Yellowcake within the drum was released and a small amount spilled onto the trailer deck. The linear rupture was approximately 2-3 inches at the approximate midpoint of the side of the drum. See attached **Figures 1** and **2**.

The ruptured package was drum #33, with a gross weight of 871.5 lbs, and a net weight of yellowcake of 828.5 lbs. This barrel was the seventh (7th) barrel loaded and the incident occurred while loading and positioning the eighth (8th) barrel on the conveyance. The Radiation Safety Officer (RSO) and HPT were contacted immediately after the spill. The breach was immediately covered with adhesive tape by the maintenance worker under the supervision of the HPT to prevent any additional spillage. The RSO estimated a maximum total of 0.5 lbs of yellowcake spilled in the trailer. The spill occurred at approximately 1045 hrs inside of the trailer. The contract carrier was not on-site during loading, the incident, or during the cleanup process.

Notification to the National Response Center was made via telephone at approximately 1230 hrs. Notification was also made to the Nuclear Regulatory Commission Project Manager via phone and email that afternoon. The RSO and HPT conducted cleanup as authorized by a Radiation Work Permit at approximately 1300 hrs. Air samples for potential dose estimates were collected starting at approximately 1230 hrs. Calculated dose results from the air samples showed no significant dose (all <100mrem 24hr) and the results were reported to NRC Operations Center and NRC Region IV. No additional notifications were required under 10 CFR 20.2202 and 2203 as a result.

The trailer was completely unloaded on June 21, 2017 to allow for contamination surveys to be completed. Upon determination that no contamination remained, the trailer was loaded with the full shipment. On June 22, 2017, the contract carrier arrived with the power unit and hauled the trailer.

Corrective actions and reporting includes the following:

- Provide a spotter within the trailer during loading as feasible and only if it is safe to do so.
- Evaluate different types of drum carrying apparatus for the forklift to determine if there is a more appropriate style of drum carrier.
- Provide a 30 day report to DOT PHMSA (49 CFR 171.16) and NRC Headquarters (NRC License Condition 11.6)

If you have any questions regarding this report or require additional information please contact me at the Casper office.

Sincerely,

Amm

Michael D. Gaither Manager EHS and Regulatory Affairs Ur-Energy USA, Inc

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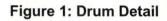
Attachments: Figure 1: Drum Detail Figure 2: Spill View Form DOT F 5800.1

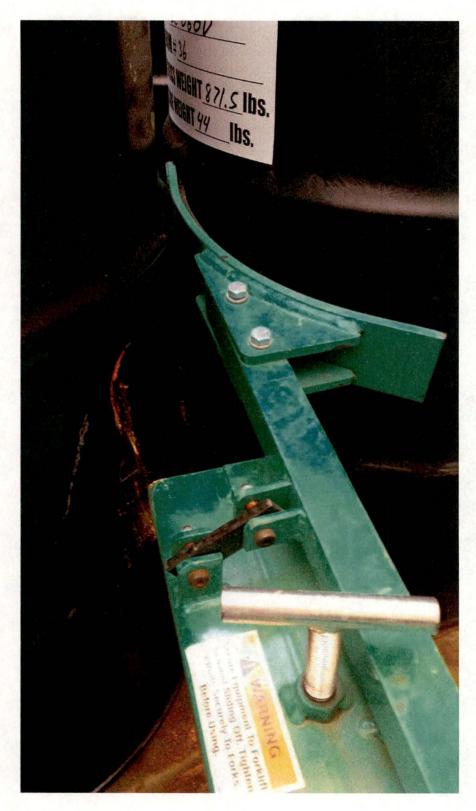
Cc: Deputy Director

Division of Decommissioning, Uranium Recovery and Waste Programs Office of Nuclear Material Safety and Safeguards U.S. Nuclear Regulatory Commission Mail Stop T-8F5 11545 Rockville Pike, Two White Flint North Rockville, MD 20852-2738 John Saxton, NRC (via email) Nancy Williams, WDEQ-LQD, Lander (via email) Theresa Horne, Ur-Energy, Littleton (via email)

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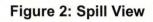
Lost Creek ISR, LLC 4 Report of DOT Hazmat Incident 1181739





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Lost Creek ISR, LLC 5 Report of DOT Hazmat Incident 1181739





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Pipeline a	U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration		Hazardous Materials Incident Report			40	Form Approval OMB No. 2137-0039					
According to the F valid OMB control mandatory and wil	number. The val	id OMB co	ntrol number for									
INSTRUCTIONS: S Safety Administrat use a seperate sh Office of Hazardou Center at 1-800-HI	ion, Office of Haz eet of paper, ide is Materials Web:	ardous Ma ntifying the site at http	terials Safety, DH e entry number b ://hazmat.dot.gov	M-63, Was being comp y. If you hav	hington, D.C. 2 leted. Copies ve any question	20590-00 of this fo	01. If space orm and ins	provided for tructions ca	or any iten an be obt	n is inadequate, tained from the		
PART I - REPO	ORT TYPE	A State of the second	The sector	Neg line	No. 1 I WE		1.1.1.1	196619	S Mitt			
1. This is to report			A) A hazardous m	naterial incid	ent		B) An undecl	ared shipme	nt with no	release		
				uctural dam		retention	n system or d	lamage that	requires re	hat epair to a system		
2. Indicate whether this is:			An initial report A supplemental (follow-up) report									
PART II - GEN	VERAL INCID	DENT IN	FORMATION	N		all .	1					
3. Date of Incident	: 06/20/2017	SPACE.		I. Time of	Incident (use 2	24-hour t	time): 10:	45	and we			
5. Enter National	Response Cente	r Report N										
6. If you submitte						port nun	nber:					
7. Location of Inci	dent: City: Wa	amsutter	Cou	nty: Swee	etwater Sta	ate: WY	ZIP	Code (if kn	own): 83	2336		
Street Address,	Mile Marker/Yar	dname/Ai								a brack		
8. Mode of Trans			Air		Highway		Rail			r		
9. Transportation	Phase		In Transit		Loading		Unloading		l In Tra	ansit Storage		
10. Carrier Report	Name L	Jr-Energy	USA, Inc.		J		3					
and the second	Street 5	800 Ente	erprise Dr Suite	e 200	di landi	1 think	A. Carl					
	City Cas	sper		100	1- 144	Sta	ate WY	_ ZIP Cod	e 8260	9		
and the second second		OT ID Num	and the second sec		Hazm	nat Regis	stration Nur	mber	and the second			
11. Shipper/Offerd	-		st Creek ISR, LLC 24 Wamsutter-Crooks Gap Road									
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		hipping Pa	iper		Hazm	nat Regis	stration Nur	mber				
12. Origin (if different from	Street	origina al	ter the sector of the	-			a burney a					
shipper address	City	-		No. of Contraction		Sta	ate	_ ZIP Cod	e			
13. Destination	Street		a planting				100		-			
14. Proper Shippin	City	N. ALS	Padioac	tive mate	rial low spor		ate			fissile excent		
					nai, iow spec	cinc aci			Sile of I	155116-6706 +		
15. Technical/Trac	le Name: Urani		es (yellowcake)					103 63			
16. Hazardous Cla Division: <u>7</u>	ss/		ication er: <u>UN2912</u> N2764, NA 2020)	<u>+</u>	18. Packing Group: (if applicabl	le)		19. Quan Relea (Includ		ement Units)		
20. Was the mater	rial shipped as a	hazardous	waste? 🔲 Y	'es 🔽	No If yes, p	rovide tl	ne EPA Mar	nifest Numb	oer:			
21. Is this a Toxic	by Inhalation (TI	H) materia	I? 🗆 Y	'es 🗹	No If yes, p	rovide tl	ne Hazard Z	one:				
22. Was the mater	rial shipped unde	er an Exem	ption, Approval,	or Compe				1. S.] No	A STATE		
	the Exemption,		249 (La				al. Kat	and the		the second second		
23. Was this an ur	ndeclared hazard	ous mater	- ials shipment?	Post .				Yes 🔽] No	9-14-24		
Form DOT F 5800	1 (01-2004)	1.1 St. 1.1	2000	Page 1			Rep	roduction o	f this for	m is permitted		

PART III - PACKAGING I	NFORMATIO	N	4	Sell.	611		And the	1		1	
24. Check Packaging Type (check	only one - if more	e than one, lis	st type of	f packagii	ng, copy	Part III, and	complet	e for ea	ch type	:	
🗹 Non-bulk	D IBC	E] Cargo	tank Mot	or Vehic	le (CTMV)		ПТа	nk Car		
Cylinder RAM] Portab	le Tank	1963			🗆 Ot	her		
25. See instructions and enter the that corresponds to the partic Enter the most important faile	ular packaging ty	be checked at	bove. En	ter the nu	umber of	codes as ap	opropriat	e to des	cribe t		
1. What Failed: <u>1</u> 0	4	low Failed:	3	0 9	9	Causes of	Failure:	5	1	3	
2. What Failed:	I	low Failed:				Causes of	Failure:			7 <u></u>	
26a. Provide the packaging identi	ification markings	, if available.									
Identification Markings:	1.0						1				
(Examples: 1A1/Y1.4/150/92/USA	/RB/93/RL, UN31H1/	Y0493/USA/M9	339/10800	/1200, DO	T - 105A -	100W (RAIL),	DOT 406 (HIGHWA	Y), DOT	51, DOT 3-A)	
26b. For Non-bulk, IBC, or non-sp complete the following:	pecification packag	jing, if identif	ication n	narkings	are incoi	mplete or ur	navailable	e, see in	structio	ons and	
Single Package or Outer Pac	kaging:			Si	ngle Pac	kage or Inne	er Packag	jing (if a	ny):		
Packaging Type: 1A2 Dru	m	1 Standar	<u>-</u>	Pa	ckaging	Type:	1	alfants.	10.00	COMP (Sec.)	
Material of Construction: Steel				Material of Construction:							
Head Type (Drums only):	Removabl	e C	Non -	Removab	le						
27. Describe the package capacity	y and the quantity	1. 1. 1. 1. 1. 1.									
Single Package or Outer Pac	kaging:			Sir	ngle Pacl	age or Inne	r Packag	ing (if a	ny):		
Package Capacity: 55 ga	1	1			ckage Ca		1219			P. (1991) (1997) (1997)	
Amount in Package: 828.5	ibs net wt	in adjust	freid is								
Number in Shipment: 8 at	the time	1	Number in Shipment:								
Number Failed: 1			Number Failed:								
28. Provide packaging construction	on and test inform	ation, as app	ropriate:								
Manufacturer:				Ma	anufactu	re Date:					
Serial Number:						ate:	A Charles	War C.Y.	1. 2. 1		
Material of Construction:											
Design Pressure:				(if Tank Car, CTMV, Portable Tank)							
Shell Thickness:				(if Tank Car, CTMV, Portable Tank)							
Head Thickness:											
Service Pressure:		4 let a few	(if Cy	linder)							
If valve or device failed:											
Туре:	Manufa	cturer:	93 př. 1	14 1 w	2-	Mod	el:	é.	S. A.	A States	
and the second second			sent and le	egible)	A	2.00 1. 20	(if pres	ent and l	egible)		
29. If the packaging is for Radioad	ctive Materials, co	mplete the fo	llowing:								
Packaging Category:	П Туре А] Type E	3 🗆	Type C	Exe	cepted		lustrial		
Packaging Certification:	Self Certifi	ed 🛛] U.S. C	ertificatio	'n	Certification	n Numbe	r		MARY AND	
Nuclide(s) Present: Uraniur	m, natural	a parata	Т	ransport	Index:		Star 1	A.	P. P. P. P.		
Activity:	general a series of the series of		1			ex:	and the second			and the local	
Form DOT E 5800 1 (01-2004)			Page 2							m is permitted	

PART IV - CONSEQUENCES	Cost and a stand and a	18983	elisin's -	The the angle the tight		
Construction of the second second second second	Spillage	xplosion nvironmenta		ial Entered Waterway/Storm Sewer		
31. Emergency Response : The following entit	ies responded to the incident:	(Check all t	hat apply)	and the second		
Fire/EMS Report #	Police Report #	All and	_ 🗹 In-h	ouse cleanup 🔲 Other Cleanup		
32. Damages: Was the total damage co	ost more than \$500?	□ Yes	☑ No			
If yes, enter the following information:	no, go to question 33.					
Material Loss: Carrier Damage:	Property Damage:	Respo	nse Cost:	Remediation/Cleanup Cost		
\$\$	\$\$	\$		\$\$		
(See damage definitions in the instructions)						
33a. Did the hazardous material cause or contrib		☐ Yes	No No			
If yes, enter the number of fatalities resulting		a la st				
Fatalities: Emplo	oyees Respo	onders	1	General Public		
33b. Were there human fatalities that did not res	ult from the hazardous material	I? 🛛 Yes	🗹 No	If yes, how many?		
34. Did the hazardous material cause or contribu	te to personal injury?	□ Yes	No No			
If yes, enter the number of injuries resulting	from the hazardous material:					
Hospitalized (Admitted Only): Emplo	oyees Respo	onders		General Public		
Non-Hospitalized: Employed (e.g.: On site first aid or Emergency Room observation		onders		General Public		
35. Did the hazardous material cause or contribu	ite to an evacuation?	□ Yes	☑ No			
If yes, provide the following information:						
Total number of general public evacuated	Total number of emp	ployees evad	cuated	Total Evacuated		
Duration of the evacuation (hou	irs)					
36. Was a major transportation artery or facility	closed?	□ Yes	☑ No	If yes, how many? (hours		
37. Was the material involved in a crash or derai	Iment?	□ Yes	☑ No			
If yes, provide the following information:	Estimated speed (mph):	Wea	ather conditions:			
	Vehicle overturn?	□ Yes		and the second second		
	Vehicle left roadway/track?	□ Yes	□ No			
PART V - AIR INCIDENT INFORMAT	FION (please refer to § 175.	31 to repor	t a discrep	pancy for air shipments)		
38. Was the shipment on a passenger aircraft?		☐ Yes	☑ No			
If yes, was it tendered as cargo, or as passer	nger baggage?					
Cargo	Passenger baggage					
39. Where did the incident occur (if unknown, ch	eck the appropriate box for the	location wh	ere the inci	dent was discovered)?		
Air carrier cargo facility	Sort center		🗖 Bagga	ge area		
By surface to/from airport	During flight		During	loading/unloading of aircraft		
40. What phase(s) had the shipment already unc	dergone prior to the incident? (C	heck all that	apply)			
Shipment had not been transported	Transported by air (first			port by air (subsequent flights)		
Initial transport by highway to cargo facil				in the		
Form DOT F 5800.1 (01-2004)	Page 3	the state	Re	eproduction of this form is permitted		

PART VI - DESCRIPTION OF EVENTS & PACKAGE FAILURE

Describe the sequence of events that led to the incident and the actions taken at the time it was discovered. Describe the package failure, including the size and location of holes, cracks, etc. Photographs and diagrams should be submitted if needed for clarification. Estimate the duration of the release, if possible. Describe what was done to mitigate the effects of the release. Continue on additional sheets if necessary.

See attached letter report.

PART VII - RECOMMENDATIONS/ACTIONS TAKEN TO PREVENT RECURRENCE

Where you are able to do so, suggest or describe changes (such as additional training, use of better packaging, or improved operating procedures) to help prevent recurrence. Provide recommendations for improvement to hazardous materials transportation beyond the control of your individual company. Continue on additional sheets if necessary.

See attached letter report.

PART VIII- CONTACT INFORMATION	A have to stand operations and	No. 2 March 19 March 19 March 19 March 19 March 19
Contact's Name (Type or Print): Michael Gaither Contact's Title: Manager EHS and Regulatory Af Business Name and Address: Ur-Energy USA, Inc. 5880 Enterprise Dr. Suite 200, Casper WY 826	Hazmat Registra	
E-mail Address: mike.gaither@ur-energy.com	Date:	and the state of the second
Preparer is: Carrier I Shipper	☐ Facility	all when the because and the
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SUBMIT