

Torres, RobertoJ

From: Theobald, Graham [graham.theobald@urs.com]
Sent: Thursday, May 02, 2013 4:37 PM
To: Torres, RobertoJ
Subject: RE: Request for additional information
Attachments: C12120573_R1.pdf

Hi Roberto,

I'm happy to answer these requests. I have to admit that I'm a little confused about your request for results from sample ID 12132012GT-06; I just double checked the report we received from Energy Laboratories (attached) and the results are present. I apologize if the copy we sent you somehow didn't contain this information, but regardless, it is on the attached pdf.

As far as the term "jam", that does not refer to any event or gauge failure – it is simply the term we have always used for our sensors. They were installed on the outside of a feed chute and were used to detect any jam inside the chute.

Please let me know if you have any further questions or need further explanations. Thank you.

Graham

Graham Theobald, CIH, CSP
TOCDF Industrial Hygiene Supervisor
URS Federal Services
435 830 7418 mobile

From: Torres, RobertoJ [mailto:RobertoJ.Torres@nrc.gov]
Sent: Thursday, May 02, 2013 1:41 PM
To: Theobald, Graham
Subject: Request for additional information

Mr. Theobald:

I am processing your request to terminate license 43-27467-01 and need the following information.

1. Provide copy of Energy Laboratory leak test result for Sample ID. 12132012GT-06. This leak test result was not included with the license termination request.
2. The decommissioning records made reference to project name: DFS Jam Sensor Removal. Please explain the term "jam". Is there an event or gauge failure that needs to be reported to the NRC?

Roberto J. Torres
Senior Health Physicist
U.S. Nuclear Regulatory Commission
Region IV
1600 East Lamar Boulevard
Arlington, TX 76011-4511
Telephone 817-200-1189



ANALYTICAL SUMMARY REPORT

January 04, 2013

URS/EG&G Defense Materials Inc
11600 Stark Rd
Stockton, UT 84071

Workorder No.: C12120573

Project Name: DFS Jam Sensor Removal

Energy Laboratories, Inc. Casper WY received the following 7 samples for URS/EG&G Defense Materials Inc on 12/17/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C12120573-001	12132012GT-01	12/13/12 9:30	12/17/12	Filter	Gross Alpha, Gross Beta Gross Gamma
C12120573-002	12132012GT-02	12/13/12 9:45	12/17/12	Filter	Same As Above
C12120573-003	12132012GT-03	12/13/12 10:00	12/17/12	Filter	Same As Above
C12120573-004	12132012GT-04	12/13/12 10:15	12/17/12	Filter	Same As Above
C12120573-005	12132012GT-05	12/13/12 10:30	12/17/12	Filter	Same As Above
C12120573-006	12132012GT-06	12/13/12 10:45	12/17/12	Filter	Same As Above
C12120573-007	12132012GT-07	12/13/12 11:00	12/17/12	Filter	Same As Above

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Stephanie D Waldrop
Reporting Supervisor

Digitally signed by
Stephanie Waldrop
Date: 2013.01.04 09:21:49 -07:00



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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

CLIENT: URS/EG&G Defense Materials Inc
Project: DFS Jam Sensor Removal
Sample Delivery Group: C12120573

Revised Date: 01/04/13

Report Date: 12/20/12

CASE NARRATIVE

REVISED/SUPPLEMENTAL REPORT

The attached analytical report has been revised from a previously submitted report due to the request by Graham Theobald on 12/27/12 for the addition of Gross Beta analysis on all samples. The data presented here is from that additional analysis.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: URS/EG&G Defense Materials Inc
Project: DFS Jam Sensor Removal
Lab ID: C12120573-001
Client Sample ID: 12132012GT-01

Revised Date: 01/04/13
Report Date: 12/20/12
Collection Date: 12/13/12 09:30
Date Received: 12/17/12
Matrix: Filter

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES							
Gross Beta	0.7	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
Gross Beta precision (±)	0.4	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
Gross Beta MDC	0.7	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
RADIONUCLIDES - GAMMA							
Cesium 137	0.0	pCi/filter	U	0.3		E901.1	12/18/12 08:00 / dpb
Cesium 137 precision (±)	0.3	pCi/filter				E901.1	12/18/12 08:00 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: URS/EG&G Defense Materials Inc
Project: DFS Jam Sensor Removal
Lab ID: C12120573-002
Client Sample ID: 12132012GT-02

Revised Date: 01/04/13
Report Date: 12/20/12
Collection Date: 12/13/12 09:45
Date Received: 12/17/12
Matrix: Filter

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES							
Gross Beta	2.4	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
Gross Beta precision (±)	0.5	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
Gross Beta MDC	0.7	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
RADIONUCLIDES - GAMMA							
Cesium 137	0.0	pCi/filter	U	0.3		E901.1	12/18/12 08:00 / dpb
Cesium 137 precision (±)	0.3	pCi/filter				E901.1	12/18/12 08:00 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: URS/EG&G Defense Materials Inc
Project: DFS Jam Sensor Removal
Lab ID: C12120573-003
Client Sample ID: 12132012GT-03

Revised Date: 01/04/13
Report Date: 12/20/12
Collection Date: 12/13/12 10:00
Date Received: 12/17/12
Matrix: Filter

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES							
Gross Beta	-0.4	dpm/100 cm2	U			E900.0	12/28/12 12:34 / lbb
Gross Beta precision (±)	0.4	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
Gross Beta MDC	0.7	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
RADIONUCLIDES - GAMMA							
Cesium 137	0.0	pCi/filter	U	0.3		E901.1	12/18/12 08:00 / dpb
Cesium 137 precision (±)	0.3	pCi/filter				E901.1	12/18/12 08:00 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: URS/EG&G Defense Materials Inc
Project: DFS Jam Sensor Removal
Lab ID: C12120573-004
Client Sample ID: 12132012GT-04

Revised Date: 01/04/13
Report Date: 12/20/12
Collection Date: 12/13/12 10:15
Date Received: 12/17/12
Matrix: Filter

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES							
Gross Beta	0.1	dpm/100 cm2	U			E900.0	12/28/12 12:34 / lbb
Gross Beta precision (±)	0.4	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
Gross Beta MDC	0.7	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
RADIONUCLIDES - GAMMA							
Cesium 137	0.0	pCi/filter	U	0.3		E901.1	12/18/12 08:00 / dpb
Cesium 137 precision (±)	0.3	pCi/filter				E901.1	12/18/12 08:00 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: URS/EG&G Defense Materials Inc
Project: DFS Jam Sensor Removal
Lab ID: C12120573-005
Client Sample ID: 12132012GT-05

Revised Date: 01/04/13
Report Date: 12/20/12
Collection Date: 12/13/12 10:30
Date Received: 12/17/12
Matrix: Filter

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES							
Gross Beta	-0.2	dpm/100 cm2	U			E900.0	12/28/12 12:34 / lbb
Gross Beta precision (±)	0.4	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
Gross Beta MDC	0.7	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
RADIONUCLIDES - GAMMA							
Cesium 137	0.0	pCi/filter	U	0.3		E901.1	12/18/12 08:00 / dpb
Cesium 137 precision (±)	0.3	pCi/filter				E901.1	12/18/12 08:00 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: URS/EG&G Defense Materials Inc
Project: DFS Jam Sensor Removal
Lab ID: C12120573-006
Client Sample ID: 12132012GT-06

Revised Date: 01/04/13
Report Date: 12/20/12
Collection Date: 12/13/12 10:45
Date Received: 12/17/12
Matrix: Filter

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES							
Gross Beta	0.5	dpm/100 cm2	U			E900.0	12/28/12 12:34 / lbb
Gross Beta precision (±)	0.4	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
Gross Beta MDC	0.7	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
RADIONUCLIDES - GAMMA							
Cesium 137	0.0	pCi/filter	U	0.3		E901.1	12/18/12 08:00 / dpb
Cesium 137 precision (±)	0.3	pCi/filter				E901.1	12/18/12 08:00 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: URS/EG&G Defense Materials Inc
Project: DFS Jam Sensor Removal
Lab ID: C12120573-007
Client Sample ID: 12132012GT-07

Revised Date: 01/04/13
Report Date: 12/20/12
Collection Date: 12/13/12 11:00
Date Received: 12/17/12
Matrix: Filter

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES							
Gross Beta	0.2	dpm/100 cm2	U			E900.0	12/28/12 12:34 / lbb
Gross Beta precision (±)	0.4	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
Gross Beta MDC	0.7	dpm/100 cm2				E900.0	12/28/12 12:34 / lbb
RADIONUCLIDES - GAMMA							
Cesium 137	0.0	pCi/filter	U	0.3		E901.1	12/18/12 08:00 / dpb
Cesium 137 precision (±)	0.3	pCi/filter				E901.1	12/18/12 08:00 / dpb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: URS/EG&G Defense Materials Inc

Project: DFS Jam Sensor Removal

Revised Date: 01/04/13

Report Date: 12/20/12

Work Order: C12120573

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0										Batch: R168815
Sample ID: MB-R168815	3	Method Blank					Run: G542M_121228A			12/28/12 12:34
Gross Beta		1 dpm/100 cm2								
Gross Beta precision (±)		0.5dpm/100 cm2								
Gross Beta MDC		0.7dpm/100 cm2								
Sample ID: LCS-R168815		Laboratory Control Sample					Run: G542M_121228A			12/28/12 12:34
Gross Beta		16.7dpm/100 cm2		96	70	130				
Sample ID: C12120573-001A DUP	3	Sample Duplicate					Run: G542M_121228A			12/28/12 12:34
Gross Beta		0.700dpm/100 cm2			70	130		0.0	20	
Gross Beta precision (±)		0.440dpm/100 cm2								
Gross Beta MDC		0.700dpm/100 cm2								
Sample ID: C12120573-002A DUP	3	Sample Duplicate					Run: G542M_121228A			12/28/12 12:34
Gross Beta		1.70dpm/100 cm2			70	130		34	20	R
Gross Beta precision (±)		0.480dpm/100 cm2								
Gross Beta MDC		0.700dpm/100 cm2								

- The Beta Duplicate RPD is outside of the acceptance range for this analysis; however, the RER of 2.0 is equal to the limit of 2.0. This batch is approved.

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: URS/EG&G Defense Materials Inc

Project: DFS Jam Sensor Removal

Revised Date: 01/04/13

Report Date: 12/20/12

Work Order: C12120573

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1										Batch: R168401
Sample ID: LCS-R168401 Laboratory Control Sample Run: GAM-HPGE_121218A 12/18/12 08:00										
Cesium 137		39800	pCi/g-dry	0.3	103	70	130			
Sample ID: MB-R168401 2 Method Blank Run: GAM-HPGE_121218A 12/18/12 08:00										
Cesium 137		ND	pCi/g-dry							U
Cesium 137 precision (±)		ND	pCi/g-dry							
Sample ID: C12120573-007ADUP 2 Sample Duplicate Run: GAM-HPGE_121218A 12/18/12 08:00										
Cesium 137		ND	pCi/filter	0.3					20	U
Cesium 137 precision (±)		ND	pCi/filter							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Workorder Receipt Checklist

URS/EG&G Defense Materials Inc

C12120573

Login completed by: Timothy I. Houghteling

Date Received: 12/17/2012

Reviewed by: BL2000\kmiller

Received by: th

Reviewed Date: 12/20/2012

Carrier FedEx
name:

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>
Container/Temp Blank temperature:	14.0°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: URS		Project Name, PWS, Permit, Etc. DFS Jam Sensor Removal		Sample Origin State: Utah		EPA/State Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Report Mail Address: 11600 Stark Road, Stockton, Utah 84071		Contact Name: Graham Theobald		Phone/Fax: 435 830-7418		Email: graham.theobald@urs.com	
Invoice Address: 11600 Stark Road, Stockton, UT 84071		Invoice Contact & Phone: Randi Galvan		Purchase Order:		Quote/Bottle Order:	
Special Report/Formats: <input type="checkbox"/> DW <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: NRC <input checked="" type="checkbox"/> Other: NRC <input type="checkbox"/> EDD/EDT (Electronic Data) Format: LEVEL IV <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		Number of Containers Sample Type: AW S V B O DW Vegetation Bioassay Other DW - Drinking Water		ANALYSIS REQUESTED Cesium 137		SEE ATTACHED	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	Standard Turnaround (TAT)	↑	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page
1 12132012GT-01		12/13/12	0930	1-0	X	X	M-6640
2 12132012GT-02		12/13/12	0945	1-0	X	X	M-6641
3 12132012GT-03		12/13/12	1000	1-0	X	X	M-6637
4 12132012GT-04		12/13/12	1015	1-0	X	X	M-6639
5 12132012GT-05		12/13/12	1030	1-0	X	X	M-6638
6 12132012GT-06		12/13/12	1045	1-0	X	X	M-6918
7 12132012GT-07		12/13/12	1100	1-0	X	X	M-6679
8							
9							
10							
Relinquished by (print): Graham Theobald		Date/Time: 13 December 2012		Signature: [Signature]		Received by (print): [Signature]	
Relinquished by (print): Graham Theobald		Date/Time: 1300		Signature: [Signature]		Received by (print): [Signature]	
Sample Disposal: Return to Client		Lab Disposal: X		Received by Laboratory: 12/13/1000		Signature: [Signature]	
Custody Record MUST be Signed							

LABORATORY USE ONLY

Shipped by: Pedex-E	Receipt Temp 14.0 °C
Cooler ID(s): 4077	On Ice: Y
Custody Seal On Bottle On Cooler Intact Signature Match	Y Y Y Y Y

Comments:
Jam sensor serial number

C12120573

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.