

O'Dowd, Dennis

From: Proa, Frank <fproa@usgs.gov>
Sent: Thursday, April 27, 2017 6:47 PM
To: O'Dowd, Dennis
Cc: Carl Orazio
Subject: [External_Sender] Re: Phone message received.
Attachments: 2017-3-29 -USGS Source XFer Form -ABuehrle -FProa.pdf; 2017-4-31 -CS137 Package Receipt -ABuehrle -FProa.pdf; 2017-3-29 -Package Survey CS137 LS3801 Source -ABuehrle -FProa.pdf

Here are the documents you requested.

For clarification, the package had no measurable activity at the surface and the internal packages were also characterized.

Frank C. Proa
Chemical and Radiation Safety
DOI -USGS -CERC
4200 E. New Haven Rd.
Columbia, MO 65201
office: 573-876-1879
cell:573-825-5948

On Wed, Apr 26, 2017 at 11:36 AM, Proa, Frank <fproa@usgs.gov> wrote:
Dennis, I am moving offices so entropy is an issue right now (I should be done next week).

It was not exactly clear what you were asking for.

Here is some of the abatement history for clarification.

Wednesday, March 29, 2017 at noon, USGS RSO ABuehrle (Lic# 05-01399-08) took possession of the material and shipped it to Denver. These actions occurred under the Type A Broad Scope License and 10 CFR 33.11(a).

Item transferred and received by ABuehrle at Denver Federal Center (DFS), return to compliance on 2017-3-31 at 0653 CST. Response to Notice of Violation sent on 2017-4-5, CC to DO'Dowd.

2017-3-16 RSC brief/debrief of violation and implementation programmatic revisions.

Program revisions planned/implemented over the period OCT2016 thru MAY2017. Program revisions aimed toward reducing complexity and increasing efficiency, in order to decrease the likelihood of future events, largely through an increase the specificity/efficacy of administrative controls (quantifiable).

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Pickup - A0

U.S.G.S. Radioactive Waste Transfer Form

Date: 3-15-17 Individual Performing Transfer: Frank Proa
 User Permit No: CERC Responsible Financial Party: Frank Proa
 Payment Method: call Frank Proa or CERC

Waste Type

Absorbed Liquid _____ Scintillation Vials _____
 Dry Solid _____ NORM, Weight: _____
 Scintillation Vials _____ Other, Specify: Pb lined shipping container

Material Description - Attach Additional Sheets and/or Gamma Specs If Needed

Isotope	Description/Manufacturer/Serial #	Activity (Ci)	Weight	Volume	Chemical/Physical Form
Cs-137	[REDACTED] Source, Date of Manufacture ~ 1987	17e-6	[REDACTED]	[REDACTED]	solid

Survey Data Results - Attach Radiological Survey Sheet

→ CERC meter Ludlum model 12 S/N 56107
 Max Dose Rate At Surface of Container: [REDACTED] ^{7/19/16}
 Max Removable Contamination: [REDACTED] pCi/100cm² Activity: [REDACTED] cpm

Final Disposal of Waste

The materials above have been received at CERC
 It is packaged for disposal in container # - transfer to Denver, CO
 Comments/Additional Information: Alex Duehrle came to CERC + took possession of source + shipped to Denver, CO.
 Actions performed under USGS Type A broad scope license # 05-01399-08, 3-29-17
 Alex Duehrle
 Radiation Safety Officer or Designee Date

Frank C. Proa

2017-3-29

Buehrle, Alex

Mar 31

to me

Hi Frank,

I wanted to let you know I received the package yesterday and everything was fine. Thank you for your assistance. It has been a pleasure working with you and I wish you good luck!

Thank you,
Alex Buehrle, CHP
Radiation Safety Officer
United States Geological Survey
Bureau Safety Management Branch

Denver Federal Center
Post Office Box 25046
Building 810, Mail Stop 205
Denver, CO 80225-0046

Measurement file : 20170329-01

Template file : 2017-3-29 -Package Survey -1987LS3801Cs137 -FProa 'alid Assa

Measurement date : 3/29/2017

Measurement time : 2:53:32 PM

Table arranged data

POS	SID	CPM	DPM-BC	TDCR	POS	SID	CPM	DPM-BC	TDCR
A01		120	409	0.292	A04		97	-126	0.343
A02		109	-39	0.294	A05		73	-248	0.453
A03		97	-131	0.350	A06		84	-207	0.414

General Data

Measurement Type: EndPoint, Time: 3/29/2017 / 2:53:32 PM, State: Valid Measurement
 14 labels included, label No.1 selected

Template Files Template loaded during measurement time : 2017-3-29 -package survey -1987ls3801cs137 -fproa.par; Modified template file
 Data file : 20170329-01.dat - 3/29/2017 / 15:18:02 - Operator was Unknown User - Created with Version 5.54
 Template file : 2017-3-29 -Package Survey -1987LS3801Cs137 -FProa.par - 3/29/2017 / 14:37:28 - Created by Unknown User -
 Created with Version 5.54

Reader Hidex 300 SL, Driver Version: 5.09, Device Serial: 2150479, Firmware: 1.83
 Installed features: LSC, Guard,
 Activity Type: Low
 Counting Time: 120 s, Maximum Counts: 100000, Ionized Delay: 1 s, Coincidence Time: 25 ns,
 Delay Before Measurement: 0.000
 Tray Size: 8x5, Well Repeats: 1, Range Repeats: 1
 Guard used: No
 Screen CPM: None
 ROI Number: 1

Calculation Program - ROI1 Free Channel Limits 0 - 1023, Type Beta
 Calculation Status : Valid Assay, Calculation Time : 3/29/2017 / 15:18:02
 MikroWin, Version 5.54; License No. : 117101
 Assembly Code A : 001F 0200 0000 0000 0000 FFFF
 Assembly Code B : 0057 FF3F FEFF FFCF FFC0 FFFF

System Printer Operating System Name : Windows 8 Enterprise Edition, 64-bit, System User : fproa
 Printer Name : \\IGSKRGCBGS01247.gs.doi.net\IGSKRGCBPR A3-MR-X7675

Control Statistics

Description	Type	Group	Assay	Source Matrix	Average	CV [%]	Num	Mrk	Del
Blank	BC	Group 1	Default	DPM	409.486	0.000	1	0	0