

Roldan, Lizette

From: James F. Miller [jmillers@sabiainc.com]
Sent: Thursday, April 01, 2010 11:01 AM
To: Roldan, Lizette
Subject: Re: REQUEST FOR ADDITIONAL INFORMATION CONCERNING APPLICATION FOR AMENDMENT TO LICENSE, CONTROL NO. 472553
Attachments: Gauge Disposal Crating.pdf; FEDEX Delivery Receipt.pdf; Source Receipt by Thermo.pdf

Dear Ms. Roldan:

I have attached a copy of the SABIA inventory of sources shipped to ThermoFisher Scientific for disassembly, together with the receipt from Fedex for delivery of the sources and a copy of an E-mail from the RSO of Thermo when the sources were received. This should address the concerns addressed in items 1 and 2 of your E-mail.

Per item 3, the source maximum amounts per item should be as follows:

8A, Cs-137, 100mCi total. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an agreement state.

8B, Am-241, 1.2 Ci. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an agreement state.

8C, Ba-133, 50 mCi. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an agreement state.

8D, Cf-252, 175 mCi. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an agreement state.

8E, C0-60, please remove

8F, Cf-252, 175 mCi. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an agreement state.

8G, Cf-252, 650 mCi. No single source to exceed the maximum activity specified in the certificate of registration issued by the NRC or an agreement state.

8H, Any byproduct material with Atomic Numbers 1-103, Not to exceed 10 microcuries per radionuclide and 1 millicurie total.

Item 4, The Cs-137 source in the device GA-0716-D-103-S is included in item 7A of license amendment 13. The Am-241 source in the device TN-0799-D-101-B is included in item 7B of license amendment 13. These sources should remain as presently stated.

Item 5, Please change the possession limits for the Cs-137 sources and for the Am-241 sources to be as indicated in item 3, above.

Item 6, I confirm that I wish for Mr. James McKensie and Mr. Terry Bosecker to no longer be added to this license, as authorized users under the provisions of license item 11. The SABIA device previously operating at that facility under provisions of research and development has been added to the site license, and the device has been transferred to that license. These individuals are no longer required to be listed on the SABIA radioactive

materials license.

Thank you for your assistance in properly reviewing this license and I hope that the above information will address all remaining concerns.

If there are any questions, please contact me.

Sincerely,

James F. Miller
R.S.O.
SABIA, Inc.

Meter Readings / mRem/yr	Date of Shipping	Source SIN	Model #	Isotope	Original Act.	Units	Original Date	Current Act.	Units	Current Date	mCi	MBq
Crate #1												
Surface = 0.55												
6/30/2004	M3831	SALC10/UT8801	Cs 137	20	mCi	7/1/1999	12.40	mCi	3/30/2010	12.40	4.59E+02	
6/30/2004	1917-7-91	P2851/LB330	Cs-137	5	mCi	7/1/1990	0.37	mCi	3/30/2010	0.37	1.38E+01	
6/30/2004	1918-7-91	P2851/LB330	Cs-137	6	mCi	7/1/1991	0.51	mCi	3/30/2010	0.51	1.88E+01	
6/30/2004	1921-7-90	P2851/LB330	Cs-137	6	mCi	7/1/1990	0.45	mCi	3/30/2010	0.45	1.66E+01	
9/13/2001	656-3-81	D-7547 /LB330	Cs 137	16	mCi	8/5/1991	10.41	mCi	3/30/10	10.41	3.85E+02	
Crate #2												
Surface = 0.8												
12/9/2002	24902	Kay Ray 7062BP	Cs 137	100	mCi	1/1/1990	62.72	mCi	3/30/10	62.72	2.32E+03	
12/9/2002	27268	Kay Ray 7063P	Cs 137	500	mCi	1/1/1993	336.06	mCi	3/30/2010	336.06	1.24E+04	
Crate #3												
Surface = 4.5												
8/24/2000	B2051	TN 5200	Cs 137	20	mCi	5/1/1991	12.93	mCi	3/30/10	12.93	4.79E+02	
8/24/2000	B2052	TN 5200	Cs 137	20	mCi	5/1/1991	12.93	mCi	3/30/10	12.93	4.79E+02	
9/13/2001	30299	Kay Ray 7062BP	Cs 137	100	mCi	9/1/1987	59.43	mCi	3/30/10	59.43	2.20E+03	
9/13/2001	30298	Kay Ray 7062BP	Cs 137	100	mCi	9/1/1987	59.43	mCi	3/30/10	59.43	2.20E+03	
9/13/2001	B4337	TN 5190	Cs 137	200	mCi	10/2/1978	96.79	mCi	3/30/10	96.79	3.58E+03	
9/13/2001	B1887	TN 5190	Cs 137	200	mCi	10/2/1978	96.79	mCi	3/30/10	96.79	3.58E+03	
8/24/2000	B2050	TN 5200	Cs 137	20	mCi	5/1/1991	12.93	mCi	3/30/10	12.93	4.79E+02	
2/14/2002	9860LX	CAM1	Am-241	20	mCi	3/18/1994	19.49	mCi	3/30/10	19.49	7.21E+02	
2/14/2002	9861LX	CAM1	Am-241	20	mCi	3/18/1994	19.49	mCi	3/30/10	19.49	7.21E+02	
9/13/2001	234	Berthold 67FB	Co 60	3	mCi	1/1/1989	0.18	mCi	3/30/10	0.18	6.80E+00	
2/14/2002	9991GH	CAM1	Cs 137	300	mCi	9/9/1994	209.61	mCi	3/30/10	209.61	7.76E+03	
2/14/2002	9992GH	CAM1	Cs 137	300	mCi	9/9/1994	209.61	mCi	3/30/10	209.61	7.76E+03	
Crate #4												
Surface = 1.0												
9/11/2001	64130	Chernob ED6	Cs 137	100	mCi	5/1/1975	44.81	mCi	3/30/10	44.81	1.66E+03	
12/6/2003	80083	AMC17	Am-241	300	mCi	3/1/1993	291.90	mCi	3/30/10	291.90	1.08E+04	
12/6/2003	80093	CoalScan 9000	Cs 137	5	mCi	3/1/1993	3.37	mCi	3/30/10	3.37	1.25E+02	
5/14/2002	80150	CoalScan 9000	Am-241	300	mCi	4/2/1992	291.47	mCi	3/30/10	291.47	1.06E+04	
5/14/2002	80150	CoalScan 9000	Cs 137	5	mCi	4/2/1992	3.30	mCi	3/30/10	3.30	1.22E+02	
8/29/2000	B712	TN 5202	Cs 137	500	mCi	6/1/1987	295.45	mCi	3/30/10	295.45	1.09E+04	
3/2/2001	27454	Kay Ray 7063P	Cs 137	500	mCi	6/1/1989	309.40	mCi	3/30/10	309.40	1.14E+04	
8/24/2000	8942	TN 5193	Co 60	500	mCi	6/1/1977	234.64	mCi	3/30/10	234.64	8.68E+03	
5/14/2002	2080	Berthold 7442	Co 60	30	mCi	6/1/1990	2.21	mCi	3/30/10	2.21	8.19E+01	
Crate #5												
Surface = 2.0												
8/20/2001	29573	7062BP	Cs 137	100	mCi	10/1/1990	63.81	mCi	3/30/10	63.81	2.36E+03	
3/1/2001	16845 I	7062BP	Cs 137	100	mCi	10/1/1993	54.30	mCi	3/30/10	54.30	2.01E+03	
3/1/2001	16845 J	7062BP	Cs 137	100	mCi	10/1/1993	54.30	mCi	3/30/10	54.30	2.01E+03	
8/20/2001	S92E2203	7062BP	Cs 137	100	mCi	1/1/1992	65.68	mCi	3/30/10	65.68	2.43E+03	
5/14/2002	23967	Kay Ray 7063BP	Cs 137	100	mCi	9/30/1987	59.54	mCi	3/30/10	59.54	2.20E+03	
9/13/2001	B160	TN 5202	Cs 137	200	mCi	9/1/1978	96.60	mCi	3/30/10	96.60	3.57E+03	
9/13/2001	B1669	TN 5193	Cs 137	200	mCi	6/1/1975	89.63	mCi	3/30/10	89.63	3.32E+03	
Crate #6												
Surface = 5.2												
6/11/2002	B1069	TN 5203	Cs 137	1000	mCi	1/1/2000	789.74	mCi	3/30/10	789.74	2.92E+04	
5/9/2004	B3048	TN 5202	Cs 137	50	mCi	2/1/1998	37.78	mCi	3/30/2010	37.78	1.40E+03	
8/24/2000	B78	TN 5206	Cs 137	500	mCi	9/1/1995	283.79	mCi	3/30/10	283.79	1.05E+04	
8/24/2000	B81	TN 5206	Cs 137	500	mCi	9/1/1995	283.79	mCi	3/30/10	283.79	1.05E+04	
9/11/2001	B35	TN 5205	Cs 137	20	mCi	12/1/1993	10.90	mCi	3/30/10	10.90	4.03E+02	
11/2/2000	S92J2201	Kay Ray 7062BP	Cs 137	100	mCi	8/1/1992	66.57	mCi	3/30/10	66.57	2.46E+03	
9/14/2003	B1262	TN 5201	Cs 137	100	mCi	2/25/1983	53.56	mCi	3/30/2010	53.56	1.98E+03	
Crate #7												
Surface = 3.2												
12/2/2002	1961 8 B6	Berthold LB 7440	Cs 137	500	mCi	8/1/1986	289.84	mCi	3/30/10	289.84	1.07E+04	
7/15/2003	B0331	TN 5211	Cs 137	20	mCi	8/2/1994	13.94	mCi	3/30/2010	13.94	5.16E+02	
11/2/2000	15171	Kay Ray 7063	Cs 137	2000	mCi	9/1/1991	1035.21	mCi	3/30/10	1035.21	3.83E+04	
9/11/2001	B36	TN 5205	Cs 137	20	mCi	12/1/1993	10.90	mCi	3/30/10	10.90	4.03E+02	
9/14/2005	26029	Kay Ray 7063P	Cs 137	1	mCi		0.09	mCi	3/30/2010	0.09	3.20E+00	

Meter Readings / mRem/hr	Date of Shipping	Source S/N	Model #	Isotope	Original Act.	Units	Original Date	Current Act.	Units	Current Date	mCi	Mbq
Crate #9 Surface = 7.0 1 Meter = 0.69	9/13/2001 4/9/2001 1/5/2004 6/11/2002 9/11/2001 8/24/2000 7/15/2003	B0120 B0066 B112 B2447 B34 B79 B604	TN 5211 TN 5211 TN 5201 TN5202 TN 5205 TN 5206 TN5201	Cs 137 Cs 137 Cs 137 Cs 137 Cs 137 Cs 137 Cs 137	50 50 100 500 20 200 100	mCi mCi mCi mCi mCi mCi mCi	2/11/1992 5/11/1991 1/11/1984 11/11/1989 12/11/1983 11/11/1985 12/11/1986	32.90 32.33 54.62 303.36 10.90 113.96 58.45	mCi mCi mCi mCi mCi mCi mCi	3/30/10 3/30/10 3/30/2010 3/30/10 3/30/10 3/30/10 3/30/2010	32.90 32.33 54.62 393.36 10.90 113.96 58.45	1.22E+03 1.20E+03 2.02E+03 1.46E+04 4.03E+02 4.22E+03 2.16E+03
Crate #9 Surface = 5.0 1 Meter = 0.62	8/24/2000 7/2/2004 8/24/2000 7/15/2003	B80 30710 B1390 B603	TN 5206 Kay Ray 7062BP TN 5201 Texas Nuc 5201	Cs 137 Cs 137 Cs 137 Cs 137	500 100 50 100	mCi mCi mCi mCi	9/11/1985 9/11/1991 7/11/1986 12/11/1986	263.79 65.17 30.29 58.45	mCi mCi mCi mCi	3/30/10 3/30/2010 3/30/10 3/30/2010	263.79 65.17 30.29 58.45	1.05E+04 2.41E+03 1.12E+03 2.16E+03
Crate #10 Surface = 3.2 1 Meter = 0.35	6/29/2007 6/29/2007 6/29/2007	S95L0908 S95L0909 29659	Kay Ray 7062BP Kay Ray 7062BP Kay Ray 7063P	Cs-137 Cs-137 Cs-137	100 100 200	mCi mCi mCi	1/11/1995 1/11/1995 1/11/1993	70.38 70.38 134.42	mCi mCi mCi	3/30/2010 3/30/2010 3/30/2010	70.38 70.38 134.42	2.60E+03 2.60E+03 4.97E+03
Crate #11 Surface = 0.2 1 Meter = 0.18	2/27/2003 2/27/2003	1166-05-98 1166-05-98	Berthold 7440D LB420 Ash Gauge	Cs 137 Am-241	10 300	mCi mCi	8/11/1983 8/11/1983	5.41 287.45	mCi mCi	3/30/2010 3/30/2010	5.41 287.45	2.00E+02 1.06E+04
Crate #12 Surface = 0.48 1 Meter = 0.16	2/20/2002 2/20/2002	21262 21264	Kay Ray 7063P Kay Ray 7063P	Cs 137 Cs 137	200 500	mCi mCi	3/12/1987 3/12/1987	117.58 293.95	mCi mCi	3/30/10 3/30/10	117.58 293.95	4.35E+03 1.09E+04
Crate #13 Surface = 0.85 1 Meter = 0.45	8/24/2000 8/24/2000 8/24/2000 7/29/2004	B302 B239 B174 B2984	TN 5180 TN 5180 TN 5205 TN 5201	Cs 137 Cs 137 Cs 137 Cs 137	2000 1000 20 100	mCi mCi mCi mCi	12/11/1977 12/11/1977 7/11/1985 7/11/1987	949.48 474.74 11.31 74.55	mCi mCi mCi mCi	3/30/10 3/30/10 3/30/10 3/30/2010	949.48 474.74 11.31 74.55	3.51E+04 1.76E+04 4.14E+02 2.76E+03
Crate #14 Surface = 1.0 1 Meter = 0.32	7/11/2007 7/11/2007	20614 73384	Kay Ray 7062BP Olmart SH1A	Cs-137 Cs-137	100 100	mCi mCi	1/11/1985 1/11/1981	70.38 50.97	mCi mCi	3/30/2010 3/30/2010	70.38 50.97	2.60E+03 1.89E+03
Crate #15 Surface = 1.9 1 Meter = 0.32	11/20/2002 11/20/2002	S93C1707 23223	Kay Ray 7062BP Kay Ray 7063	Cs 137 Cs 137	100 500	mCi mCi	10/11/1992 11/28/1986	66.82 292.02	mCi mCi	3/30/2010 3/30/2010	66.82 292.02	2.47E+03 1.08E+04
Crate #16 Surface = 0.21 1 Meter = 0.1	2/1/2007	634-1	Berthold LB 7440	Cs-137	50	mCi	1/11/1992	32.84	mCi	3/30/2010	32.84	1.22E+03
Crate #17 Surface = 0.25 1 Meter = 0.13	2/19/2002 2/19/2002 2/19/2002	70140 70139 70138	Olmart SHWA Olmart SHWA Olmart SHWA	Cs 137 Cs 137 Cs 137	100 100 100	mCi mCi mCi	3/11/1981 3/11/1981 3/11/1981	51.16 51.16 51.16	mCi mCi mCi	3/30/10 3/30/10 3/30/10	51.16 51.16 51.16	1.89E+03 1.89E+03 1.89E+03
Crate #18 Surface = 2.0 1 Meter = 0.45	7/10/2007 7/10/2007 7/10/2007	B-878 B1903 B1019	Texas Nuc 5202 TN 5201 TN 5202	Cs-137 Cs-137 Cs-137	500 100 500	mCi mCi mCi	1/11/1992 1/11/1985 1/11/1984	328.39 70.38 343.89	mCi mCi mCi	3/30/2010 3/30/2010 3/30/2010	328.39 70.38 343.89	1.22E+04 2.60E+03 1.27E+04
Crate #19 Surface = 1.8	9/6/2004	M3305	SA-1-C5	Cs 137	3000	mCi	3/11/1988	1803.62	mCi	3/30/2010	1803.62	6.67E+04

Meter Readings / mRem/hr	Date of Shipping	Source SIN	Model #	Isotope	Original Act.	Units	Original Date	Current Act.	Units	Current Date	mCi	MBo
1 Meter = 0.7	9/6/2004	M3306	S4-1 C5	Cs 137	3000	mCi	3/1/1988	1803.62	mCi	3/30/2010	1803.62	6.67E+04
	9/6/2004	M2648	LS(D)	Cs 137	150	mCi	10/1/1988	91.41	mCi	3/30/2010	91.41	3.38E+03
	9/6/2004	M2649	LS(D)	Cs 137	150	mCi	10/1/1988	91.41	mCi	3/30/2010	91.41	3.38E+03

Meter Readings / mRem/hr	Date of Shipping	Source S/N	Model #	Isotope	Original Act.	Units	Original Date	Current Act.	Units	Current Date	mCi	MBq
Crate #20												
Surface = 0.25	12/8/2005	M7327	Rohan SA1-C10	Cs 137	40	mCi	7/1/1991	25.97	mCi	3/30/2010	25.97	9.61E+02
1 Meter = 0.19												
Crate #21												
Surface = 1.5	8/24/2000	B239	TH15180	Cs 137	1000	mCi	12/1/1976	463.93	mCi	3/30/10	463.93	1.72E+04
1 Meter = 0.42	8/29/2000	M3994	SA1-C5	Cs 137	300	mCi	9/1/1989	186.72	mCi	3/30/10	186.72	6.91E+03
	8/26/2001	M5254	SA1-C5	Cs 137	5,000	mCi	6/1/1980	3166.06	mCi	3/30/10	3166.06	1.17E+05
Crate #22												
Surface = 0.48	6/18/2002	389-1-89	Berthold LB 7440	Cs 137	50	mCi	1/1/1989	30.65	mCi	3/30/10	30.65	1.13E+03
1 Meter = 0.25	6/18/2002	2817-10-8a	Berthold LB 7440	Cs 137	30	mCi	10/1/1988	18.28	mCi	3/30/10	18.28	6.70E+02
Crate #23												
Surface = 0.5	8/22/2006	3438-11-50	Berthold / LB330	Cs-60	5	mCi	1/1/1993	3.36	mCi	3/30/2010	3.36	1.24E+02
1 Meter = 0.32												
Totals											32802	739626.2541

From: FedEx Custom Critical [technicalsupport@blue.fedex.com]
Sent: Wednesday, November 19, 2008 7:04 AM
To: Fresh, Jeniece
Subject: FedEx Custom Critical Shipment Delivery Notice for PRO 25049448



Jeniece,

Thank you for choosing FedEx Custom Critical to handle your expedited-shipping needs. Your shipment has been delivered.

You can view the complete tracking information for your shipment by visiting customcritical.fedex.com/tracking or you can call 1.800.255.2421 to speak with a customer service representative, 24 hours a day, 365 days a year. Please reference PRO number 25049448 for questions regarding this shipment.

Delivery Notification

PRO number: 25049448
Contact: Jeniece Fresh
Company Name: Sabia Inc
Service Type: White Glove Services
Transit Miles: 1735
Transit Time: 37h 44min
BOL: 10033350

Billing
 Sabia Inc
 2300 N Yellowstone Hwy
 Idaho Falls, ID 83401
Authorization: PO# IF2008-816

Origin
 Sabia Inc
 2300 N Yellowstone Hwy
 Idaho Falls, ID 83401

Destination
 Thermo Fisher Scientific
 1410 Gillingham Ln
 Sugar Land, TX 77478

Freight Details
Commodity: RADIOACTIVE MATERIAL
Pieces: 23
Weight: 10000 lbs.
Part Numbers:

Proof of Delivery:
Signed for by: YGARCIA
Time: Wed Nov 19, 2008 9:02 AM EST

Pickup Arrival: Mon Nov 17, 2008
 12:47 PM EST

Delivery Arrival: Wed Nov 19, 2008
 8:08 AM EST

Pickup Departure: Mon Nov 17, 2008
 2:55 PM EST

Delivery Departure: Wed Nov 19, 2008
 9:02 AM EST

Service	Description	Charges	Total Price (USD)
White Glove Services	Hazmat Reroute Charge	\$210.00	\$4829.34
	Base Charge	\$3776.76	
	Fuel Surcharge - %	\$717.58	
	Hazardous	\$125.00	

Please Note:

- Absent a relationship governed by an established contract or special published tariff, all terms and conditions of transport are as defined in FedEx Custom Critical, Inc. prevailing publications in effect when service is provided, including applicable Rules & Accessorials Service Guide Tariffs and all Web-based statements appearing on the FedEx Custom Critical Web site.
- Individual supplying order information attests to the integrity of the information and that it is true and correct and will indemnify and protect FedEx Custom Critical, its employees, agents and utilized service providers from and against any and all fines, penalties, claims and liabilities resulting from the provision of incorrect, invalid, incomplete or fraudulent information. FedEx Custom Critical assumes no liability whatsoever for failure to provide or complete services as a result of the provision of incorrect, invalid, incomplete or fraudulent information.
- FedEx Custom Critical reserves the right to modify pricing and/or to refuse to commence or complete a request for

service in the event shipment specifications are not consistent with those found to be actual specifications.

- Price, mileage, transit times and service options may vary based on equipment availability, freight availability, the time you commit and place the order with us, weather and other unavoidable or unforeseen delays, broker and/or customs delays.
- Rates are stated in U.S. currency, are determined based upon the information you provide and subject to change if shipment criteria are subsequently found to be inconsistent.
- Quotes are good through 11:59:59 p.m. Eastern Time of the date provided. Quotes that are converted to orders after this cutoff time are subject to change. Cost estimates are based on prevailing and applicable rules, accessorials, terms, conditions and prices in effect on the date the quote is provided. Quoted rates may not include all possible accessorial charges.
- **For residents of Québec:**
The parties declare that they have required that these Terms of Use and all documents related hereto, either present or future, be drawn up in the English language only.

Les parties dé par les présentes qu'ils exigent que cette entente et tous les documents y afférents, soit pour le présent ou l'avenir, soient rédigés en langue anglaise seulement.

FedEx Custom Critical

1.800.255.2421

-----Original Message-----

From: Fontenot, Mike [mailto:michael.fontenot@thermofisher.com]
Sent: Wednesday, November 19, 2008 1:51 PM
To: Jeniece Fresh
Subject: RE: SABIA Source Removal

Jeniece,

We have received your shipment. I haven't been down to look at it, but the Lab Technicians tell me they received 23 crates with 109 sources (763 GBq), per your packing list.

Additionally, several of these are strip sources. We ordinarily remove the long source rod and then place it in a long strip source pig. We do it this way because we do not want to cut the rod in the wrong place and pierce the source encapsulation. We will require you to send a strip source pig. The only other option would be for us to evaluate the source rod and attempt to remove the source from the rod. This may require additional time and resources. The price may need to be adjusted for those sources.

Once I hear from you and get more details, I'll go look at the shipment and see what I can come up with. We can discuss again afterwards.

Thanks,

Mike
Michael Fontenot
Radiation Safety Officer
Thermo Fisher Scientific
Process Instruments
1410 Gillingham Lane
Sugar Land, TX 77478
direct: 713-272-4568
michael.fontenot@thermofisher.com
www.thermo.com

The world leader in serving science

From: Jeniece Fresh [mailto:jfresh@sabiainc.com]
Sent: Thursday, November 06, 2008 4:17 PM
To: Fontenot, Mike
Cc: 'James Miller'
Subject: SABIA Gauge Disposal

Hi Mike,

Attached is a spreadsheet of the gauges we are sending to you.

The gauges are packed in 22 wooden crates – plus 1 wooden crate containing a large lead pig.

If you have any questions, please do not hesitate to call me.

Thank you,

Jeniece Fresh
SABIA, Inc.
Manufacturing Administrator
(208)528-8878 Bus.
(208)528-8880 Fax
(858)602-2663 Cell.
jfresh@sabiainc.com