Spectra Gases Inc.
Spectra (

3434 Route 22 West, Branchburg NJ 08876 USA tel: 908.252.9300 or 800.932.0624 fax. 908.252.0811

29-30779-01

Mr. Stephen Courtemanche
United States Nuclear Regulatory Commission
Region One Office
(Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety)
475 Allendale Road
King of Prussia, PA 19406-1415

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SLIBJECT: Records of Transferred Tritium Material Report

March 9,2009

FEDERAL EXPRESS MAIL

Dear Mr. Courtemanche:

This is a summary of product transfer from October 2003 through November 2008. As you can see, we remove the radioactive isotope from our source product in Newark. The remaining inert gas (non-radioactive) is transferred for processing to another building and this non radioactive gas will never exceed more than 1 x 10^{-9} curies of tritium per liter.

As of today, our traps in Newark contain - 37.557 curies from the source containers received from October 2003 through November 2008, decay adjusted. Additionally, there are 0.018 curies of residual gas product remaining in vendor provided source cylinders that we maintain in Newark until which time they are removed for disposal.

If you have any questions regarding this information and the attached spreadsheet, please contact me at (908) 477-4397.

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Sincerely,

Michael Baselice
RSO, Spectra Gases Inc.

cc: Jack Faught, Executive for Overseeing Isotopes, Spectra Gases

Transfer History

	3/9/2009								
	Sequential Cylinder Number	1	2	3	4	5	6	7	8
	Date Received in Newark	311712004	511312004	511312004	613012004	613012004	101112004	101112004	41512005
A	**Source - Raw Material (Conainer No)**	**824122Y**	**116065**	**H107187**	**824226Y**	**484070Y**	**824181Y**	**AF144222**	**K28190**
	Source - Activity/Date provided by Vendor	0.22	0.23	0.58	0.61	0.51	0.65	0.22	0.62
	Activity (Ci) Gas upon receipt date above	0.21	0.21	0.54	0.56	0.47	0.59	0.2	0.61
	Approximate Volume remaining in Source cylinder								
	Approximate Activity remaining in Source cylinder	N/A	N/A	N/A	NIA	N/A	N/A	NIA	NIA
	Current actitivity (curies) remaining in source								
	Disposition	Disposed	Disposed	Disposed	Disposed	Disposed	Disposed	Disposed	Disposed
B	**Finished Product (non radioactive)**								
	Lab Reference - Traceability	233250 233311 233312	2362623 232624	232215	232216	232217	232221	235983	238399
	Inert Gas; maximum remaining tritium activity (Curies per liter) at time of transfer:	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09
C	**Currentlv in Trap**								
	Approx Days	1792	1736	1736	1689	1689	1598	1598	1414
	Actual Days	1818	1761	1761	1714	1714	1621	1621	1435
	112 life (days)	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95
	Current Activity (as of date above)	0.159	0.160	0.412	0.430	0.361	0.460	0.156	0.489

Transfer History

	31912009								
	Sequential Cylinder Number	9	10	11	12	13	14	15	
	Date Received in Newark	4/5/2005	4/28/2005	4/28/2005	7/26/2005	7/26/2005	2/8/2006	2/8/2006	5/19/2006
A	**Source - Raw Material (Conainer No)**	**824167Y**	**NK13555**	**824127Y**	**H219909**	**484033Y**	**NK05222**	**852779Y**	**116115**
	Source - Activity/Date provided by Vendor	0.51	0.62	0.38	5.14	0.42	0.63	0.63	4.1
	Activity (Ci) Gas upon receipt date above	0.50	0.54	0.33	4.2	0.35	0.53	0.53	
	Approximate Volume remaining in Source cylinder								
	Approximate Activity remaining in Source cylinder	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Current actitivity (curies) remaining in source								
	Disposition	Disposed	Disposed	Disposed	Disposed	Disposed	Disposed	Disposed	
B	**Finished Product (non radioactive)**								
		238398	239655	239656	240472	240471	240479	240478	240481
	Lab Reference - Traceability	238400							
	Inert Gas; maximum remaining tritium activity (Curies per liter) at time of transfer:	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09
C	**Currentlv in Trap**								
	Approx Days	1414	1391	1391	1303	1303	1111	1111	1010
	Actual Days	1435	1411	1411	1322	1322	1127	1127	1025
	1/2 life (days)	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95
	Current Activity (as of date above)	0.401	0.435	0.266	3.426	0.286	0.446	0.446	2.818

Transfer History

	3/9/2009								
	Sequential Cylinder Number	17	18	19	2 0	21	22	23	24
	Date Received in Newark	11/1812005	11/1812005	1012712004	10/3/2003	10/3/2003	6/1512005	11/6/2005	913012005
A	**Source - Raw Material (Conainer No)**	**765901**	**NK02389**	**T247844**	**NK02207**	**K124025**	**483197Y**	**483193Y**	**484057Y**
	Source - Activity/Date provided by Vendor	0.56	0.35	0.82	0.4	0.33	0.25	0.48	0.62
	Activity (Ci) Gas upon receipt date above	0.44	0.31	0.82	0.31	0.31	0.21	0.39	0.52
	Approximate Volume remaining in Source cylinder								
	Approximate Activity remaining in Source cylinder	NIA	NIA	**NIA**	**NIA**	NIA	N/A	NIA	N/A
	Current actitivity (curies) remaining in source								
	Disposition	Disposed	Disposed	Disposed	Disposed	Disposed	Disposed	Disposed	Disposed
B	**Finished Product (non radioactive)**								
		240477	240476	232228	231396	231275	239657	240475	240470
	Lab Reference - Traceability				231656				
	Inert Gas; maximum remaining tritium activity (Curies per liter) at time of transfer:	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09
C	**Currentlv in Trap**								
	Approx Days	1191	1191	1572	1956	1956	1344	1203	1239
	Actual Days	1208	1208	1595	1984	1984	1364	1221	1257
	1/2 life (days)	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95
	Current Activity (as of date above)	0.365	0.257	0.641	0.228	0.228	0.170	0.323	0.428

Transfer History

	3/9/2009							
	Sequential Cylinder Number	25	26	27	28	29	30	31
	Date Received in Newark	11/15/2006	12/15/2006	12/15/2006	12/15/2006	12/15/2006	1/19/2007	1/19/2007
A	**Source - Raw Material (Conainer No)**	**K-994**	**824085Y**	**K-153764**	**119607**	**13345**	**NK-02217**	**824173Y**
	Source - Activity/Date provided by Vendor	0.52	0.61	2.62	2.62	0.7	5.68	2.25
	Activity (Ci) Gas upon receipt date above	0.52	0.61	1.8	1.8	0.495	5.25	2.02
	Approximate Volume remaining in Source cylinder	3 liters	3 liters	3 liters	3 liters	3 liters	3 liters	3 liters
	Approximate Activity remaining in Source cylinder	0.00039	0.0004575	0.00135	0.00135	0.00037125	0.0039375	0.001515
	Current actitivity (curies) remaining in source	0.000342	0.000403	0.001191	0.001191	0.000327	0.003491	0.001343
	Disposition	Source Room	Source Room	Source Room	Source Room	Source Room	Source Room	Source Room
B	**Finished Product (non radioactive)**							
	Lab Reference - Traceabiiity	240482	247981	247982	247979	247980	247983	247984
	Inert Gas; maximum remaining tritium activity (Curies per liter) at time of transfer:	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09
C	**Currently in Trap**							
	Approx Days	834	804	804	804	804	770	770
	Actual Days	846	816	816	816	816	781	781
	112 life (days)	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95
	Current Activity (as of date above)	0.456	0.538	1.588	1.588	0.437	4.655	1.791

Transfer History

	3/9/2009						
	Sequential Cylinder Number	32	33	34	35	36	37
	Date Received in Newark	1/19/2007	9/20/2007	12/21/2007	2/6/2008	312712008	4/7/2008
A	**Source - Raw Material (Conainer No)**	**484081Y**	**TW07-387645**	**TW07-387647**	**TW07-387646**	**41-5248**	**T-236491**
	Source - Activity/Date provided by Vendor	0.23	0.007	1.51	0.016	0.8	2.9
	Activity (Ci) Gas upon receipt date above	0.23	0.007	1.4	0.0147	0.8	2.9
	Approximate Volume remaining in Source cylinder	3 liters	3 liters	3 liters	3 liters	3 liters	3 liters
	Approximate Activity remaining in Source cylinder	0.0001725	0.00000525	0.00105	0.000011025	0.0006	0.002175
	Current actitivity (curies) remaining in source	0.000153	0.000005	0.000981	0.000010	0.000569	0.002065
	Disposition	Source Room	Source Room	Source Room	Source Room	Source Room	Source Room
B	**Finished Product (non radioactive)**						
	Lab Reference - Traceability	247985	253092	247990	247995	257707	257705
	Inert Gas; maximum remaining tritium activity (Curies per liter) at time of transfer:	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09
C	**Currentlv in Trap**						
	Approx Days	770	529	438	393	342	332
	Actual Days	781	537	444	399	347	337
	112 life (days)	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95
	Current Activity (as of date above)	0.204	0.006	1.307	0.014	0.758	2.753

Transfer History

	3/9/2009						
	Sequential Cylinder Number	38	39	40	41	42	43
	Date Received in Newark	41712008	4/7/2008	4/7/2008	4/4/2008	4/4/2008	4/4/2008
A	**Source - Raw Material (Conainer No)**	**S-5732**	**40-12870**	**5248**	**TW07-387648**	**TW07-387649**	**TW07-387651**
	Source - Activity/Date provided by Vendor	2.7	0.36	2.7	0.586	0.175	0.117
	Activity (Ci) Gas upon receipt date above	2.7	0.36	2.7	0.586	0.175	0.117
	Approximate Volume remaining in Source cylinder	3 liters	3 liters	3 liters	3 liters	3 liters	3 liters
	Approximate Activity remaining in Source cylinder	0.002025	0.00027	0.002025	0.0004395	0.00013125	0.00008775
	Current actitivity (curies) remaining in source	0.001923	0.000256	0.001923	0.000417	0.000125	0.000083
	Disposition	Source Room	Source Room	Source Room	Source Room	Source Room	Source Room
B	**Finished Product (non radioactive)**						
	Lab Reference - Traceability	252605	257706	257707	252608	252607	252606
	Inert Gas; maximum remaining tritium activity (Curies per liter) at time of transfer:	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09	1.E-09
C	**Currentlv in Trap**						
	Approx Days	332	332	332	335	335	335
	Actual Days	337	337	337	340	340	340
	112 life (days)	4500.95	4500.95	4500.95	4500.95	4500.95	4500.95
	Current Activity (as of date above)	2.564	0.342	2.564	0.556	0.166	0.111

		Transfer History			Cummulative Activity Breakdown
	3/9/2009				
	Sequential Cylinder Number	44	45	46	
	Date Received in Newark	4/7/2008	5/7/2008	5/7/2008	
A	**Source - Raw Material (Conainer No)**	**12870**	**TW07-387652**	**TW07-387653**	
	Source - Activity/Date provided by Vendor	0.36	0.329	0.805	
	Activity (Ci) Gas upon receipt date above	0.36	0.312	0.764	
	Approximate Volume remaining in Source cylinder	3 liters	3 liters	3 liters	
	Approximate Activity remaining in Source cylinder	0.00027	0.000234	0.000573	
	Current actitivity (curies) remaining in source	0.000256	0.000223	0.000547	0.018 Activity (Ci) in Storage room
	Disposition	Source Room	Source Room	Source Room	
B	**Finished Product (non radioactive)**				
	Lab Reference - Traceability	257706	257710	257708	
	Inert Gas; maximum remaining tritium activity (Curies per liter) at time of transfer:	1.E-09	1.E-09	1.E-09	
C	**Currentlv in Trap**				
	Approx Days	332	302	302	
	Actual Days	337	306	306	
	1/2 life (days)	4500.95	4500.95	4500.95	
	Current Activity (as of date above)	0.342	0.298	0.729	37.557 Activity(Ci) in trap