

Allen, Pam, NMENV



From: Maestas, Ricardo, NMENV
Sent: Wednesday, June 25, 2014 3:26 PM
To: Allen, Pam, NMENV
Subject: FW: Can you provide me initial data as dpm?
Attachments: Radiation Detection Sampling Schedule Timeline 3-6-14.xlsx

Email and att. for March

From: Kliphuis, Trais, NMENV
Sent: Tuesday, March 11, 2014 8:35 AM
To: Maestas, Ricardo, NMENV; Smith, Coleman, NMENV; Stone, Nick (stone.nick@epa.gov); LucasKamat, Susan, NMENV; Skibitski, Thomas, NMENV
Subject: FW: Can you provide me initial data as dpm?

From: Peake, Tom [<mailto:Peake.Tom@epa.gov>]
Sent: Tuesday, March 11, 2014 7:21 AM
To: Poppell, Sam W.; Dempsey, Gregg D.; Stone, Nick; Brozowski, George; Kliphuis, Trais, NMENV
Subject: FW: Can you provide me initial data as dpm?

FYI—CMERC data

From: Russell Hardy [<mailto:rhardy@cemrc.org>]
Sent: Monday, March 10, 2014 5:47 PM
To: Peake, Tom
Cc: Walsh, Jonathan
Subject: RE: Can you provide me initial data as dpm?

Attached is a table that provides the activity (Bq) per sample as well as activity adjusted for volume - activity (Bq) per cubic meter.

You should be able to add up the Bq per sample for each isotope and then multiply by 60 to get DPM.

The other thing that may affect your ability to compare is the fact that our station B filter ran from the morning of 2/14 through the afternoon of 2/18 (4.33 days) – you'll need to add up all of NWP's station B results during this timeframe to be comparable. Our station A filters were all pulled at the same time – so they should be very close.

Hope that helps,

Russell

From: Peake, Tom [<mailto:Peake.Tom@epa.gov>]
Sent: Monday, March 10, 2014 2:58 PM
To: Russell Hardy
Cc: Walsh, Jonathan
Subject: RE: Can you provide me initial data as dpm?

Hi,

I was afraid of that after thinking of our discussion last week. Maybe we could get at this another way. The DOE table 1 has a calculated release activity in Curies. You have information in activity per volume. In your data would it be valid to



sum the activity (across the table) and multiply the value by the air volume (60,000 cfm * elapsed time) to get the activity in Bq and then convert to Ci as used by DOE?

The purpose of this exercise is to verify DOE's numbers.

Thanks.
Tom

From: Russell Hardy [<mailto:rhardy@cemrc.org>]
Sent: Monday, March 10, 2014 4:42 PM
To: Peake, Tom
Cc: Walsh, Jonathan
Subject: RE: Can you provide me initial data as dpm?

Tom, under normal conditions we would have gross alpha/beta activity to provide you. However, since we were in a rush to process these samples and obtain the isotopic activity as quickly as possible, we bypassed our normal procedures and went straight to destructive analysis and isotopic separation.

So, the short answer is no – we don't have it.

Russell

From: Peake, Tom [<mailto:Peake.Tom@epa.gov>]
Sent: Monday, March 10, 2014 2:34 PM
To: Russell Hardy
Cc: Walsh, Jonathan
Subject: Can you provide me initial data as dpm?

Hello,
Thanks for the visit last week.

Could you help me with some of your data?

I am trying to compare some of your data with some of DOE's gross alpha data, and I was wondering if you had alpha activity in dpm. I have your table with the isotopic, but need dpm to compare with a DOE table. Attached is an excerpt from DOE's consequence assessment which should be made public in a day or two. The table shows DOE's data that I am interested in comparing. Could you provide me your gross alpha data for this period?

Thanks.
Tom Peake
202-343-9765

Sample ID	Sampling Site	Date Installed	Time Installed	Date Removed	Time Removed	Date Rec. @ CEMC	Time Rec. @ CEMC	Date Anal. Started	Date Analysis Completed	Flow Rate	Meters	Bq/MS Conversion Factor	241Am Ba/Sample	241Am Ba/MS	239+240Pu uBq/Sample	239+240Pu uBq/MS	238Pu Ba/Sample	238Pu Ba/MS	137Cs Ba/Sample	137Cs Ba/MS	137Cs	137Cs	
																							239+240Pu
25137	Near Field HI-Vol	2/11/2014	11:54	2/16/2014	9:32	2/16/2014	13:00	2/16/2014	2/19/2014	67.8	7.028	13.499	0.945	0.000048	0.0457	0.000021							
25139	Near Field HI-Vol	2/16/2014	9:10	2/18/2014	10:03	2/18/2014	13:11	2/18/2014	2/24/2014	67.8	2.993	5.633	0.907	0.000001									
25202	Near Field HI-Vol	2/18/2014	10:10	2/25/2014	18:02	2/25/2014	19:00	2/28/2014															
25138	Carbox Flats HI-Vol	2/11/2014	12:39	2/18/2014	9:37	2/18/2014	13:00	2/18/2014	2/19/2014	67.8													
25200	Carbox Flats HI-Vol	2/18/2014	9:41	2/18/2014	10:43	2/18/2014	13:11	2/18/2014	2/24/2014	67.8													
30301	Carbox Flats HI-Vol	2/18/2014	10:47	2/25/2014	18:09	2/25/2014	19:00	2/28/2014															
25196	On-Site HI-Vol	2/11/2014	10:16	2/18/2014	9:25	2/18/2014	13:11	2/18/2014	2/24/2014	67.8	10.011	19.428	1.2	0.00007	0.115	0.000006	0.004	0.000002					
25201	On-Site HI-Vol	2/18/2014	9:11	2/25/2014	17:13	2/25/2014	19:00	2/28/2014															
30182	Station A A2BU	2/14/2014	7:43	2/15/2014	6:20	2/18/2014	13:00	2/19/2014	2/28/2014	1.4225	1.367	71	96333.33	1364.9	47400	471.6	2140	30.3	0.34	0.0048			
30183	Station A A2BU	2/15/2014	6:30	2/15/2014	8:40	2/18/2014	13:00	2/19/2014	2/28/2014	2.00	110	7	3830	520.07	1974	186.5	72	9.8					
30184	Station A A2BU	2/15/2014	8:40	2/15/2014	23:30	2/18/2014	13:00	2/19/2014	2/28/2014	2.00	850	48	6140	159.8	870	16.1	37.6	0.78					
30208	Station A A2BU	2/15/2014	23:30	2/16/2014	8:50	2/18/2014	13:00	2/19/2014	2/28/2014	2.00	560	32	831.33	26.20	40.21	1.3	1.8	0.26					
30209	Station A A2BU	2/16/2014	8:50	2/16/2014	15:50	2/18/2014	13:00	2/19/2014	2/28/2014	2.00	480	27	227.88	8.36	17.65	0.53	1.24	0.25					
30310	Station A A2BU	2/16/2014	16:50	2/17/2014	0:15	2/18/2014	13:00	2/19/2014	2/28/2014	2.00	445	25	76.5	3.01	6.19	0.23	4.03	0.16					
30211	Station A A2BU	2/17/2014	0:15	2/17/2014	8:20	2/19/2014	13:00	2/19/2014	2/28/2014	2.00	485	27	58.17	2.12	5.01	0.18	0.53	0.52					
30185	Station A A2BU	2/17/2014	8:20	2/17/2014	16:20	2/18/2014	13:00	2/19/2014	2/28/2014	2.00	480	27	29.9	0.99	1.99	0.07	0.15	0.01					
30186	Station A A2BU	2/17/2014	16:20	2/18/2014	0:10	2/18/2014	13:00	2/19/2014	2/28/2014	2.00	470	27	18.96	0.71	1.45	0.07	0.09	0.00					
30187	Station A A2BU	2/18/2014	0:10	2/18/2014	8:30	2/18/2014	13:00	2/19/2014	2/28/2014	2.00	490	28	6.96	0.25	0.7	0.03	0.03	0.00					
30204	Station A A2BU	2/18/2014	8:30	2/18/2014	16:05	2/18/2014	13:00	2/19/2014	2/28/2014	2.00	465	26	8.22	0.31	0.82	0.03	0.099	0.00					
30205	Station A A2BU	2/18/2014	16:05	2/19/2014	0:40	2/19/2014	13:00	2/21/2014	2/28/2014	2.00	515	29	12.16	0.42	0.99	0.03	0.044	0.00					
30206	Station A A2BU	2/19/2014	0:40	2/19/2014	8:23	2/19/2014	13:00	2/21/2014	2/28/2014	2.00	463	26	5.28	0.20	0.38	0.01	0.018	0.00					
30207	Station A A2BU	2/19/2014	8:23	2/19/2014	16:00	2/19/2014	13:00	2/21/2014	2/28/2014	2.00	457	26	4.6	0.18	0.358	0.01	0.027	0.00					
30208	Station A A2BU	2/19/2014	16:00	2/20/2014	0:08	2/20/2014	13:00	2/21/2014	2/28/2014	2.00	488	28	3.98	0.14	0.412	0.02	0.016	0.00					
30207	Station A A2BU	2/20/2014	0:08	2/20/2014	8:17	2/20/2014	13:00	2/21/2014	2/28/2014	2.00	487	28	8.12	0.28	0.214	0.03	0.031	0.00					
30208	Station A A2BU	2/20/2014	8:17	2/20/2014	16:24	2/20/2014	13:00	2/21/2014	2/28/2014	2.00	487	28	3.58	0.13	0.302	0.01	0.013	0.00					
30209	Station A A2BU	2/20/2014	16:24	2/21/2014	0:12	2/21/2014	13:00	2/21/2014	2/28/2014	2.00	468	27	4.82	0.18	0.428	0.02	0.021	0.00					
30250	Station A A2BU	2/21/2014	0:12	2/21/2014	8:45	2/21/2014	13:00	2/21/2014	2/28/2014	2.00	513	29	9.68	0.33	0.81	0.03	0.029	0.00					
30261	Station A A2BU	2/21/2014	8:45	2/21/2014	16:00	2/21/2014	13:00	2/22/2014	2/28/2014	2.00	485	26											
30262	Station A A2BU	2/22/2014	16:00	2/22/2014	9:50	2/22/2014	13:00	2/26/2014	3/4/2014	2.00	527	30	8.18	0.27	0.07	0.03	0.0372	0.00					
30263	Station A A2BU	2/22/2014	9:50	2/22/2014	8:30	2/22/2014	13:00	2/26/2014	3/4/2014	2.00	460	26											
30262	Station A A2BU	2/22/2014	8:30	2/22/2014	16:15	2/22/2014	13:00	2/26/2014	3/4/2014	2.00	465	26											
30314	Station A A2BU	2/22/2014	16:15	2/23/2014	0:11	2/23/2014	13:00	2/26/2014	3/4/2014	2.00	478	27											
30315	Station A A2BU	2/23/2014	0:11	2/23/2014	8:30	2/23/2014	13:00	2/26/2014	3/4/2014	2.00	499	28											
30316	Station A A2BU	2/23/2014	8:30	2/23/2014	16:15	2/23/2014	13:00	2/26/2014	3/4/2014	2.00	465	26											
30353	Station A A2BU	2/23/2014	16:15	2/24/2014	0:25	2/24/2014	13:00	2/26/2014	3/4/2014	2.00	490	28											
30254	Station A A2BU	2/24/2014	0:25	2/24/2014	9:16	2/24/2014	13:00	2/26/2014	3/4/2014	2.00	471	27											
30255	Station A A2BU	2/24/2014	9:16	2/24/2014	17:00	2/24/2014	13:00	2/26/2014	3/4/2014	2.00	463	26											
30311	Station A A2BU	2/24/2014	17:00	2/25/2014	0:05	2/25/2014	13:00	2/28/2014		2.00	425	24											
30312	Station A A2BU	2/25/2014	0:05	2/25/2014	8:30	2/25/2014	13:00	2/28/2014		2.00	505	29											
30313	Station A A2BU	2/25/2014	8:30	2/25/2014	16:28	2/25/2014	13:00	2/28/2014		2.00	478	27											
30314	Station A A2BU	2/26/2014	16:28	2/26/2014	0:25	2/26/2014	13:00	2/28/2014		2.00	477	27											
30315	Station A A2BU	2/26/2014	0:25	2/26/2014	8:45	2/26/2014	13:00	2/28/2014		2.00	503	28											
30316	Station A A2BU	2/26/2014	8:45	2/26/2014	16:38	2/26/2014	13:00	2/28/2014		2.00	473	27											
30317	Station A A2BU	2/26/2014	16:38	2/27/2014	0:15	2/27/2014	13:00	2/28/2014		2.00	455	26											
30327	Station A A2BU	2/27/2014	0:15	2/27/2014	8:55	2/27/2014	13:00	2/28/2014		2.00	520	28											
30328	Station A A2BU	2/27/2014	8:55	2/27/2014	16:34	2/27/2014	13:00	2/28/2014		2.00	456	26											
30311	Station A A2BU	2/27/2014	16:34	2/28/2014	0:16	2/28/2014	13:00	2/28/2014		2.00	519	29											
30332	Station A A2BU	2/28/2014	0:16	2/28/2014	8:35	2/28/2014	13:00	2/28/2014		2.00	499	28											
30330	Station A A2BU	2/28/2014	8:35	2/28/2014	16:15	2/28/2014	13:00	2/28/2014		2.00	460	26											
30333	Station A A2BU	2/28/2014	16:15	3/1/2014	1:04	3/1/2014	13:00	3/4/2014		2.00	529	30											
30314	Station A A2BU	3/1/2014	1:04	3/1/2014	8:58	3/1/2014	13:00	3/4/2014		2.00	471	27											
30351	Station A A2BU	3/1/2014	8:58	3/1/2014	16:58	3/1/2014	13:00	3/4/2014		2.00	481	27											
30354	Station A A2BU	3/1/2014	16:58	3/1/2014	0:07	3/1/2014	13:00	3/4/2014															