



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
National Health and Environmental Effects Research Laboratory  
Research Triangle Park, NC 27711

OFFICE OF  
RESEARCH AND DEVELOPMENT

November 21, 2011

Steven Milloy  
12309 Briarbush Lane  
Potomac, MD 20854

**SUBJECT: Freedom of Information Act Request No: HQ-FOI-02235-11**

Dear Mr. Milloy:

This is in response to your Freedom of Information Act request, cited above, dated September 15, 2011 requesting the results of all research conducted at EPA's Human Studies Facility relating to human volunteers exposed to concentrated ambient particles (CAPs). Based on your email response to Karis Boerner on 11/8/11, you further clarified your request for data to include a timeframe "starting 2010" focusing on "clinical effects" of all subjects.

Your request was assigned to the Office of Research and Development (ORD), National Health & Environmental Effects Research Laboratory (NHEERL). NHEERL has completed its work on your request. Included with this letter is one (1) enclosed document that we have determined to be relevant to your request. This concludes ORD's response to your request. There is no cost to you for this information.

You may appeal this response to the National Freedom of Information Officer, U.S. EPA, FOIA and Privacy Branch, 1200 Pennsylvania Avenue, N.W. (2822T), Washington, DC 20460 (U.S. Postal Service Only), FAX: (202) 566-2147, email: [hq.foia@epa.gov](mailto:hq.foia@epa.gov). Only items mailed through the United States Postal Service may be delivered to 1200 Pennsylvania Avenue N.W. If you are submitting your appeal via hand delivery, courier service or overnight delivery, you must address your correspondence to 1301 Constitution Avenue, NW, Room 6416J, Washington, DC 20004. Your appeal must be in writing, and it must be submitted no later than 30 calendar days from the date of this letter. The Agency will not consider appeals received after the 30 calendar day limit. The appeal letter should include the case number stated above (HQ-FOI-02235-11). For quickest possible handling, the appeal letter and its envelope should be marked "Freedom of Information Act Appeal."

If you have questions regarding this response, please contact Karis A. Boerner, FOIA Coordinator, NHEERL/ORD, (218) 529-5035.

Sincerely,

A handwritten signature in blue ink that reads "H. Zenick".

Harold Zenick, Ph.D.  
Director  
National Health & Environmental Effects  
Research Laboratory

Enclosure(s)

A handwritten signature in blue ink, possibly "K. Boerner", is written over a circular stamp or seal.

## FOIA # HQ-FOI-02235-11

Exposure Date	SUBJECT	Entered Chamber	Exited Chamber	Filter Conc (ug/m3)	Clinical Effects*
1/5/2010	OMC019	11:02	13:02	205.27	No clinical effects requiring follow-up observed
1/6/2010	KCN112	9:34	11:34	153.58	No clinical effects requiring follow-up observed
2/9/2010	OMC021	10:52	12:52	442.49	No clinical effects requiring follow-up observed
3/9/2010	OMC023	10:45	11:08	750.83	No clinical effects requiring follow-up observed
3/23/2010	OMC024	10:49	12:49	147.42	No clinical effects requiring follow-up observed
4/13/2010	OMC025	10:43	12:43	431.06	No clinical effects requiring follow-up observed
4/20/2010	OMC026	11:19	13:19	336.56	No clinical effects requiring follow-up observed
4/27/2010	OMC027	11:00	13:00	257.18	No clinical effects requiring follow-up observed
4/28/2010	KCN111	9:13	11:13	154.36	No clinical effects requiring follow-up observed
5/4/2010	OMC028	10:54	12:54	326.78	No clinical effects requiring follow-up observed
5/5/2010	KCN113	9:26	11:26	578.95	No clinical effects requiring follow-up observed
5/11/2010	OMC022	10:51	12:51	247.77	No clinical effects requiring follow-up observed
6/8/2010	OMC030	10:48	12:48	257.12	No clinical effects requiring follow-up observed
6/15/2010	OMC031	11:28	13:28	468.96	No clinical effects requiring follow-up observed
6/29/2010	OMC033	11:04	13:04	321.36	No clinical effects requiring follow-up observed
7/13/2010	OMC034	10:49	12:49	177.02	No clinical effects requiring follow-up observed
7/15/2010	XCE224	11:10	13:10	137.19	No clinical effects requiring follow-up observed
8/10/2010	OMC035	11:00	13:00	411.98	No clinical effects requiring follow-up observed
8/12/2010	XCE225	10:59	12:59	157.63	No clinical effects requiring follow-up observed
8/25/2010	KCN114	9:55	11:55	232.91	No clinical effects requiring follow-up observed
9/9/2010	XCE226	10:55	12:55	87.36	No clinical effects requiring follow-up observed
9/23/2010	XCE228	11:05	13:05	174.61	No clinical effects requiring follow-up observed
10/6/2010	KCN115	9:31	11:31	131.50	No clinical effects requiring follow-up observed
10/7/2010	XCE227	11:21	12:10	111.68	Removed from chamber due to new onset of atrial fibrillation. Individual reverted to normal sinus rhythm approximately two hours later. Individual was admitted to the hospital overnight for observation and telemetry. Detailed in Ghio et al., 2011 Case Report, Environ Health Perspect doi:10.1289/ehp.1103877
11/18/2010	XCE229	11:14	13:14	59.09	No clinical effects requiring follow-up observed
12/2/2010	XCE231	10:55	12:55	35.60	No clinical effects requiring follow-up observed
1/6/2011	XCE233	11:05	13:05	43.65	No clinical effects requiring follow-up observed
1/24/2011	XCE232	10:47	12:47	150.63	No clinical effects requiring follow-up observed
1/31/2011	XCE234	11:03	13:03	90.95	No clinical effects requiring follow-up observed
2/3/2011	XCE236	11:12	13:12	57.91	No clinical effects requiring follow-up observed
2/10/2011	XCE235	11:12	11:35	66.26	Removed from chamber due to a short episode of an elevated heart rate during exposure. The individual denied any symptoms. This individual was provided with copies of the EKG and holter recording and referred to MD.
2/24/2011	XCE238	10:57	12:57	103.51	No clinical effects requiring follow-up observed
3/28/2011	XCE239	10:52	12:52	80.06	No clinical effects requiring follow-up observed
4/14/2011	XCE237	10:48	12:48	93.24	No clinical effects requiring follow-up observed
4/18/2011	XCE242	11:09	13:09	72.89	No clinical effects requiring follow-up observed
4/25/2011	XCE240	11:05	13:05	41.54	No clinical effects requiring follow-up observed
5/2/2011	XCE244	11:13	13:13	85.31	No clinical effects requiring follow-up observed
5/16/2011	XCE243	11:00	13:00	142.50	No clinical effects requiring follow-up observed
5/23/2011	XCE245	10:57	12:57	266.92	No clinical effects requiring follow-up observed
6/2/2011	XCE247	11:00	13:00	179.58	No clinical effects requiring follow-up observed
6/9/2011	XCE246	10:55	12:55	359.52	No clinical effects requiring follow-up observed

\* Note : Clinical Effects is defined as requiring medical follow-up or referral to physician