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May 5, 2004

Mr. Paul Kudarauskas
U.S. Department of Transportation
Volpe National Transportation Systems Center
55 Broadway, DTS-33
Cambridge, Massachusetts 02142

Subject: Libby Asbestos Project/Salt Lake City 2 (TO 33) – Artistic Printing Removal Action Personal Air Sampling Summary

Dear Mr. Kudarauskas:

The purpose of this letter is to summarize the analytical results of the personal air samples collected to date at the Salt Lake City - Artistic Printing (SLC2) removal effort and to recommend that collection of personal air samples on employees performing interior cleaning be terminated for the remainder of the removal operation.

Previous investigations within the Artistic Printing building found dust contaminated with Libby amphibole asbestos (LA). Therefore, the primary task for this removal effort is interior cleaning, which includes wet wiping, vacuuming, and stacking/moving items within a defined exclusion zone. As part of these removal activities, CDM Federal Programs Corporation (CDM) was tasked with collecting personal air samples on Environmental Protection Agency's (EPA) cleanup/construction contractor (Environmental Restoration [ER]) personnel, during level C work (i.e., work performed inside containment).

Personal air sampling began April 19th, 2004 at the commencement of the removal operation and continues to date. CDM has collected personal breathing zone air samples on ER's personnel in accordance with OSHA 29 CFR 1926.1101. A summary of results of the personal breathing zone air samples collected from April 19th through April 30th is listed in Attachment 1. Personal exposures to airborne asbestos fibers were measured daily by collecting time-weighted average (TWA) and excursion (30 minutes) personal air samples on one designated ER employee each day. The samples were collected in accordance with the Final Draft Response Action Work Plan (RAWP) for the Libby Asbestos Project (CDM 2003) and analyzed by phase contrast microscopy (PCM) (NIOSH 7400).

The OSHA permissible exposure limit (PEL) for TWA samples is 0.1 fibers per cubic centimeter (f/cc). To date, the highest TWA result measured during the removal operation is

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0.01 f/cc. The average and geometric mean for the TWA samples collected to date are 0.005 and 0.004 f/cc, respectively. The OSHA PEL for excursion samples is 1.0 f/cc. The highest excursion result measured during the removal operations is 0.067 f/cc. The average and geometric mean for the excursion samples collected are 0.029 and 0.023 f/cc respectively.

All results are well below the OSHA PEL. Therefore, the full face and half face air purifying respirator (APR) equipped with a P-100 HEPA filter the government contractors are using are adequate for the measured exposures to date. Re-evaluation of the interior cleaning task should be conducted following 6 months of additional comparable work.

Please feel free to contact me at 720-264-1116 with any questions you may have regarding this matter.

Very truly yours,

E-Signed by Jeff G. Montera
VERIFY authenticity with ApproveIt

Jeff Montera
Project Manager
CDM Federal Programs Corporation

cc: Chuck Myers
Tim Wall
Tommy Cook

Attachment 1. HEG Calculations for Personal Air Samples Collected at Salt Lake City 2.
Task: Interior Cleaning (Wet Wipe, Vacuuming, Detailing)
PPE: Full and Half Face APR with P-100 filter cartridges

Person ID	Sample Date	TWA (f/cc)	Excursions (f/cc)
6568	4/19/2004	0.006	0.023
6953	4/20/2004	0.010	0.054
6686	4/21/2004	0.003	0.067
0960	4/21/2004	0.007	0.023
0000	4/21/2004	0.004	0.002
5942	4/22/2004	0.001	0.023
7960	4/23/2004	0.001	0.026
6686	4/24/2004	FAULT	0.044
9845	4/26/2004	0.005	0.023
8555	4/27/2004	0.007	0.023
4919	4/28/2004	VOID	0.023
6674	4/29/2004	0.006	0.022
0232	4/30/2004	0.001	0.023
Geomean		0.004	0.023
Average of detections		0.005	0.029

Acronyms

HEG	homogeneous exposure group
APR	air purifying respirator
TWA	time weighted average
f/cc	fibers per cubic centimeter

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04/29/2004 06:52 AM

To "Byron Hartman (E-mail)" <b.hartman@erllc.com>, Craig Myers/EPR/R8/USEPA/US@EPA, Floyd Nichols/EPR/R8/USEPA/US@EPA

cc

bcc

Subject FW: SLC2-PCM Results

Attached are the first week of PCM results. In general, they look very good - they are all well below the PEL. There was one personal sample collected on 4/21 that was overloaded. The lab is going to indirect prep this so we have a fiber count. An overload does not necessarily mean there is a PEL exceedance, only there was a lot of interference. Brian Pyles has a faxed copy of these to post/discuss. Please let me know if you have any questions.

-Kuda

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Calc_104283-1 PCM_042304.xls Calc_104089-PCM_041904.xls Calc_104154-PCM_042004.xls Calc_104186-1 PCM_042104.xls
Calc_104233-1 PCM_042204.xls Calc_104279-1 PCM_042404.xls