



DEPARTMENT OF THE AIR FORCE
AIR EDUCATION AND TRAINING COMMAND

12 Jan 2012

MEMORANDUM FOR: 403 MXS/LGMF

FROM: 81 AMDS/SGPB

SUBJECT: Wipe Sample Results, 403 MXS, Structural Maintenance, 0093-FASR-310A

1. On 19 Apr 2011 and 25 Oct 2011, SSgt Fitzpatrick and SrA de l'Etoile conducted wipe sampling at Structural Maintenance. The purpose of this evaluation was to determine a presence/absence of contaminants Beryllium, Cadmium, and Lead to ensure the proper operation of the bead blasting enclosure system, detect cross contamination into break room, and to document worker exposure to the collected contaminants. This survey was conducted in accordance with (IAW) AFOSH Standard 48-145, *Occupational Health Program*, and other applicable Air Force and federal regulations such as 29 CFR 1910.1025-*Lead*, and 29 CFR 1910.1027-*Cadmium*. Sample results were received on 31 May 2011 and 14 Nov 2011.

2. Findings/Recommendations:

a. At 1000 on 19 Apr 2011 SSgt Fitzpatrick and SrA de l'Etoile entered building 4303 where the two fully enclosed bead blasters are located. Best N-Dex gloves were donned by all individuals. Two field blanks were taken and four field samples were taken on each bead blaster machine. In previous sampling events, there has been a presence of Cadmium and Lead at these specific locations. It is recommended that the shop continues use the controls that are already in place. This sampling event is a follow up action from 22 November 2010.

b. At 1200 on 25 Oct 2011, SSgt Fitzpatrick and SrA de l'Etoile entered building 4303 the Structural Maintenance are located. Best N-Dex gloves were donned by both individuals. Two field blanks were taken and eight field samples were taken at various locations in the break room. The sampling results showed that there were excess amounts of Cadmium and Lead on both of the break room tables. It is recommended that the break room is cleaned and wiped down on a regular basis to prevent exposures. **It is also recommended that a changing room is established to remove PPE after performing the bead blasting process.** This sampling event is a follow up action from the April 2011 wipe sampling. The wipe sample results are compared to the Limit of Detection to determine presence of absence (See Attachment).

c. **There is a potential to airborne lead at any level. Employees must be informed of the contents of appendices A and B of the standard (IAW) 29 CFR.1910.1025-*Lead*. Training shall be repeated at least annually and documented on worker's AF form 55.**

3. The sampling events are follow ups from wipe sampling conducted on 22 Nov 2010. Based on our results, Lead is still being released from the glove box onto surfaces in the workplace. Even though results show there is still some presence of Lead contamination; the results are lower than previous samples. Our results also show that cross contamination is occurring from the bead blasting booths into the break room area. Continue to reduce the spreading of Lead into the surrounding area to ensure that all workers are trained on the proper waiting time between the actual blasting and opening the glove box to check the part inside. The second step is to ensure proper PPE is properly worn during this process. Workers are to wear disposable Tyvex suits, a half face