

PCB Air Monitoring Report (Fire Incident)
Lockheed Martin Akron Airdock

Data acquisition using Varian Star Chromatography Software V5.52

Sample Desorption:

Front and back section of media tube separated; filter and front section desorbed separate from back section

Desorbed with 2.0 ml iso-octane containing 0.050 µg/ml tetrachloro-m-xylene & 0.050 µg/ml decachlorobiphenyl

Calibration Range: 0.005 µg/ml to 2.0 µg/ml Aroclor 1268

Specific procedures and results are presented in the following sections.

1. PCB area air sampling within Airdock after exterior fire (May 18, 2006)

Area air sampling was performed throughout the interior Airdock after an exterior fire burned a portion of the rubber membrane of the northeast clamshell door. Eight area samples were obtained and analyzed for PCBs. Air sampling pumps were calibrated before and after using a DC-Lite™ Primary Calibrator (S/N 103823). All pump calibrations included compensations for barometric pressure (29.58 in. – 29.60 in.) and temperature (60.8 – 55.4 °F).

Air sampling and analysis for airborne PCBs was in accordance with NIOSH Method 5503. The area samples were obtained using high volume pumps, increasing the flow rate to approximately 2.4 – 2.9 liters per minute. Sample analysis was performed by American Industrial Hygiene Association (AIHA)-accredited EA Group.

The following table summarizes the results from within the Airdock:

May 19, 2006

Sample # OH33144	Employee/Area Location	Analyte	Duration (minutes)	Flow Rate (Liters)	Volume (Liters)	Results
051906-01	Arch 10.5 East	PCBs	439	2.50	1096.4	0.011 µg/m ³
051906-02	Arch 10 Middle	PCBs	445	2.50	1111.4	< 0.0090 µg/m ³
051906-03	Arch 7 East	PCBs	463	2.497	1156.3	< 0.0087 µg/m ³
051906-04	Arch 10 East	PCBs	436	2.497	1088.9	0.023 µg/m ³
051906-05	Arch 7 Middle	PCBs	447	2.762	1234.8	< 0.0081 µg/m ³
051906-06	Arch 6 East	PCBs	445	2.53	1125.0	< 0.0089 µg/m ³
051906-07	Arch 3 West	PCBs	440	2.884	1269.3	< 0.0079 µg/m ³
051906-08	Arch 8 East	PCBs	402	2.375	954.8	< 0.011 µg/m ³
NIOSH REL		PCBs				1 µg/m ³

All sample results were reported below the NIOSH Recommended Exposure Limit (REL) for PCBs.

Analytical Information

Breakthrough: No breakthrough occurred, as evidenced by not having any PCB detected in the backup section of media.