

**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 <sup>3</sup>
051906-02	Arch 10 Middle	PCBs	445	2.50	1111.4	< 0.0090 µg/m <sup>3</sup>
051906-03	Arch 7 East	PCBs	463	2.497	1156.3	< 0.0087 µg/m <sup>3</sup>
051906-04	Arch 10 East	PCBs	436	2.497	1088.9	0.023 µg/m <sup>3</sup>
051906-05	Arch 7 Middle	PCBs	447	2.762	1234.8	< 0.0081 µg/m <sup>3</sup>
051906-06	Arch 6 East	PCBs	445	2.53	1125.0	< 0.0089 µg/m <sup>3</sup>
051906-07	Arch 3 West	PCBs	440	2.884	1269.3	< 0.0079 µg/m <sup>3</sup>
051906-08	Arch 8 East	PCBs	402	2.375	954.8	< 0.011 µg/m <sup>3</sup>
NIOSH REL		PCBs				1 µg/m <sup>3</sup>

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.