



F.E. Warren Air Force Base, Launch Facility Sampling Results

**Lt Col Raymond W. Mak
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21 October 2024**



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**DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE GLOBAL STRIKE COMMAND**

21 October 2024

MEMORANDUM FOR: AFGSC/A4B
ATTN: Mr. Daryle Fry

FROM: AFGSC/SGPB
245 E Davis Ave, Bldg 5341
Barksdale AFB, LA 71110

SUBJECT: F.E. Warren Air Force Base (AFB) Launch Facility Sampling Results

References: (a) American Conference of Governmental Industrial Hygienists, *2023 Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices* (OH: ACGIH, 2023), 19.

(b) American Conference of Governmental Industrial Hygienists, *2001 Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices* (OH: ACGIH, 2001).

(c) William E. Luttrell, Kenneth R. Still, Jeffrey A. Church, and Leslie A. Beyer, *Toxicology Principles for the Industrial Hygienist* (Second Edition) (VA: AIHA, 2019).

(d) Agency for Toxic Substances and Disease Registry, *Polychlorinated Biphenyls ToxFAQs* (GA: ATSDR, 2014).

(e) National Archives, *40 CFR 761.61* (Washington, D.C.: CFR, 2023).

1. INTRODUCTION

At the request of the Air Force Global Strike Commander (AFGSC/CC), the F.E. Warren AFB Bioenvironmental Engineering (BE) flight performed air and surface swipe sampling for polychlorinated biphenyls (PCBs) for six (6) Launch Facilities (LFs) at F.E. Warren AFB, WY. between 28 August to 18 September 2024. Sampling was performed to characterize and document potential occupational and environmental hazards in the LFs. The purpose of this memo is to convey survey results received from two civilian laboratories.

A. Survey Personnel:

- (1) Capt Ariel Serrano, 90th Operational Medical Readiness Squadron (OMRS) BE Flight Commander
- (2) 2Lt Courtney Rogat, 90th OMRS BE Deputy Flight Commander

- (3) MSgt Raymond Madayag, 90th OMRS BE Flight Chief
- (4) SSgt Jesse Reed, 90th OMRS BE Technician
- (5) SrA Elijah Koivisto, 90th OMRS BE Technician
- (6) SrA Kaitlin Grantham, 90th OMRS BE Technician
- (7) SrA Jerosan Fletcher, 90th OMRS BE Technician
- (8) A1C Mikhail Ayala, 90th OMRS BE Technician
- (9) A1C Raymond Brown, 90th OMRS BE Technician
- (10) A1C William Carter, 90th OMRS BE Technician

B. Personnel Contacted:

- (1) MSgt Vince Betzel, 90th Missile Maintenance Squadron, Production Superintendent
- (2) TSgt Drew Culver, 90th Missile Maintenance Squadron, Production Superintendent

C. Equipment Used:

- (1) Scientific Kit Corporation (SKC) AirChek XR5000 Sampling Pumps with Adjustable Low Flow Tube Holder and Constant Pressure Controller for Low Flow
- (2) MesaLabs Bios DryCal Defender 510 Calibrator
- (3) Ancillary equipment including sterile containers and other items to facilitate sample collection and analysis

2. BACKGROUND

Following a March 2023 site visit to address cancer concerns in the missileer community, the United States Air Force School of Aerospace Medicine (USAFSAM) Defense Centers for Public Health-Dayton (DCPH-D) Occupational and Environmental Health Department (OE) performed three rounds of environmental sampling at all Missile Alert Facilities (MAFs) at F.E. Warren AFB, WY. The LF sampling plan targeted the identification of PCB present in LFs in accordance with the AFGSC One Time Inspection of PCBs memorandum dated 22 July 2024. The potential health hazards sampled for will be discussed in the health hazard summary in the following section.

The units included in this survey were the 319th, 320th and 321st Missile Squadrons. No less than two (2) LFs per squadron for a minimum total of six (6) LFs per wing. F.E. Warren AFB conducted sampling in six (6) LFs across three squadrons to include:

- A. Two LFs for the 319th Missile Squadron (B-10 and C-02)
- B. Two LFs for the 320th Missile Squadron (H-10 and I-09), and
- C. Two LFs for the 321st Missile Squadron (K-06 and O-10)

3. HEALTH HAZARD SUMMARY

PCBs are synthetic organic chemicals used for a variety of industrial and commercial purposes. They were commonly used in the fluid in electrical components, capacitors, and transformers. PCBs were developed in the 1940's and used through the late 1970's. In the late 1970's, they were banned from manufacturing because of evidence that determined PCBs accumulate in the environment and may be toxic to humans and wildlife. PCBs remain present in electrical components of equipment in the Launch Control Centers (LCCs) and LFs because of their capability to insulate and regulate equipment temperatures (Agency for Toxic Substances and Disease Registry, 2014). 40 Code of Federal Regulations (CFR) 761.61 establishes a standard for PCB spills to be cleaned to ten micrograms per one hundred square centimeters (10 µg/100 cm²) (National Archives, 2023). The EPA classified PCBs as a probable human carcinogen. Many of the cancer concerns from MAF occupants originated with concerns from PCB exposures. Furthermore, PCB stickers across all LCCs and LFs were not standardized and MAF occupants reported past incidences of PCB leaks. Due to LCC and LF equipment containing PCBs, air and swipe samples were collected to test for PCBs.

4. METHODOLOGY & ANALYSIS

This section summarizes sampling plans utilized to ensure proper collection, analysis, and validity of results. National Institute for Occupational Safety and Health (NIOSH) and EPA approved methods were used to develop sampling plans and execute sample analysis. Laboratory analysis was used to run one method for PCB air sampling and one method for PCB swipe sampling. The tables in the appendices of this report contain sample type, location, analyte, result, and applicable standard. A summary of analytical methods and number of samples taken for each method can be found in Table 1. Samples were shipped from F.E. Warren AFB to two civilian analytical laboratories to conduct the analysis. Air Force Global Strike Command Bioenvironmental Engineering (AFGSC/SGPB) validated the results as they were received from the laboratories.

4.1 AIR

Air sampling quantifies the concentration of analytes within the volume sampled. Personal air samples were collected to characterize environmental exposures in the LFs. Local BE used one sampling method to analyze seven PCB analytes in each of the sampled LF. Representative sample for environmental exposures encountered during routine systems maintenance and checks in seven LFs.

In addition to the personal air samples collected at each sampled LF, field and media blanks were also analyzed. Media blanks are never exposed to the environment and are used to ensure there is no contamination of media during the equipment/media manufacturing and handling processes. Field blanks are opened to the environment to assess any initial contamination that may have occurred prior to any tested air that would have flowed through the sample media. Media and field blanks are a standard quality assurance practice in environmental sampling studies.

4.2 PCB SWIPES

Swipe sampling was conducted to determine the presence/absence of PCBs. A total of twenty-two (22) swipes were collected in each LF at locations historically known to contain PCBs (e.g., panels, transformers, & batteries). Surfaces of a ten centimeter by ten-centimeter (100 cm²) area were swiped horizontally and vertically within the same location, side to side, up and down. When possible for equipment being swiped, both a surface swipe and ground level or underside swipe was taken to determine the presence/absence of PCB.

Table 1: Summary of Analytical Methods and Sample Quantity for each Potential Health Hazard

Potential Health Hazard	Lab (Location)	Analytical Method	Matrix	No. of Samples (per LF)	No. of Samples (per base)
PCBs	Bureau Veritas North America	NIOSH 5503	Air	1	6
PCB Swipe Sampling	Summit (Cuyahoga Falls, OH)	EPA 8082A	Surface	22	132

5. RESULTS & DISCUSSION

This section summarizes the findings of all samples collected at F.E. Warren AFB. Sample results were received from the laboratories and checked for quality assurance and control. Any results that came back above a standard were immediately communicated and released to AFGSC/A4B. All results for each sampled LF received from the laboratories are documented in the appendices of this report. Each LF's results can be found as its own appendix. Non-Detects (ND) mean the result was below the laboratory's limit of detection (LOD) for that specific method.

5.1 PCB SWIPE SAMPLING

Swipe sampling for PCBs were compared to the 40 CFR 761 standard of ten micrograms per one hundred square centimeters (10 µg/100 cm²). A total of three (3) swipes in two (2) LFs had detectable surface levels of PCBs, but did not exceed limits mandated by 40 CFR 761. A full list of all swipe locations at each sampled LF and associated results can be found in Tables 1A – 1F in the Appendices.

5.2 AIR SAMPLING

All PCB air sampling in the sampled LF were below laboratory limits of detection. No trace amounts of chemicals were found on any F.E. Warren media and field blanks; therefore, these results are considered valid. A full list of results can be found in Tables 2A – 2F in the Appendices.

6. CONCLUSIONS

The results presented in this report are a part of a MAJCOM initiative at Malmstrom, Minot and F.E. Warren AFBs to determine the presence/absence of PCBs in LFs. If you have any questions, comments, or concerns, please contact SMSgt Taurie McCurdy, DSN at DSN 781-1597, taurie.mccurdy@us.af.mil or me at DSN 781-5635, raymond.mak@us.af.mil.

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Appendix 1: LF Bravo (B-10) Results, Sampled on 18 September 2024

Table 1A: PCB Swipe Sampling

Location	Analyte	Result ($\mu\text{g}/100\text{ cm}^2$)	Standard (40 CFR Part 761) ($\mu\text{g}/100\text{ cm}^2$)
1. PLPA Panel – Surface or Underside	Total PCBs	Not Detected	<10
2. Cable Air Dryer - Surface	Total PCBs	Not Detected	<10
3. Telephone Set Repeater - Surface	Total PCBs	Not Detected	<10
4. LDB Panel (Open)	Total PCBs	Not Detected	<10
5. LDB Panel - Underside	Total PCBs	Not Detected	<10
6. Receiver/Transmitter Alarm Set Drawer (475A1)	Total PCBs	Not Detected	<10
7. Battery Charger-Alarm Set Group - Surface	Total PCBs	Not Detected	<10
8. Battery Charger - Surface	Total PCBs	Not Detected	<10
9. Battery Charger Handles	Total PCBs	Not Detected	<10
10. LF Access System SDCA - Surface	Total PCBs	Not Detected	<10
11. LF Access System MDC - Surface	Total PCBs	Not Detected	<10
12. G & C Liquid Cooler (Chiller) - Surface	Total PCBs	Not Detected	<10
13. Control Monitor (403A6) - Surface	Total PCBs	Not Detected	<10
14. Power Supply (403A7) - Surface	Total PCBs	Not Detected	<10
15. Power Supply Group (406) (PSDU) - Surface	Total PCBs	Not Detected	<10
16. AC Power 400 CY Panel (406) - Surface	Total PCBs	Not Detected	<10
17. Power Supply A4 (406A4)	Total PCBs	Not Detected	<10
18. Electrical Surge Arrester – Left side Top Surface (484)	Total PCBs	Not Detected	<10
19. Electrical Surge Arrester – Left side Bottom Surface (484)	Total PCBs	Not Detected	<10
20. Electrical Surge Arrester – Right side Top Surface (483)	Total PCBs	Not Detected	<10
21. Electrical Surge Arrester – Left side Bottom Surface (483)	Total PCBs	Not Detected	<10
22. Launch Tube Heater Panel (LTH)-Inside Bottom Surface	Total PCBs	Not Detected	<10

Table 2A: Air Sampling Results – PCBs

Analyte	LF Result (mg/m³)
Aroclor 1016	<0.0023
Aroclor 1221	<0.0023
Aroclor 1232	<0.0023
Aroclor 1242	<0.0023
Aroclor 1248	<0.0023
Aroclor 1254	<0.0023
Aroclor 1260	<0.0023

Appendix 2: LF Charlie (C-02) Results, Sampled on 29 August 2024

Table 1B: PCB Swipe Sampling

Location	Analyte	Result (µg/100 cm²)	Standard (40 CFR Part 761) (µg/100 cm²)
1. PLPA Panel – Surface or Underside	Total PCBs	Not Detected	<10
2. Cable Air Dryer - Surface	Total PCBs	Not Detected	<10
3. Telephone Set Repeater - Surface	Total PCBs	Not Detected	<10
4. LDB Panel (Open)	Total PCBs	Not Detected	<10
5. LDB Panel - Underside	Total PCBs	Not Detected	<10
6. Receiver/Transmitter Alarm Set Drawer (475A1)	Total PCBs	Not Detected	<10
7. Battery Charger-Alarm Set Group - Surface	Total PCBs	Not Detected	<10
8. Battery Charger - Surface	Total PCBs	Not Detected	<10
9. Battery Charger Handles	Total PCBs	Not Detected	<10
10. LF Access System SDCA - Surface	Total PCBs	Not Detected	<10
11. LF Access System MDC - Surface	Total PCBs	Not Detected	<10
12. G & C Liquid Cooler (Chiller) - Surface	Total PCBs	1.12	<10
13. Control Monitor (403A6) - Surface	Total PCBs	Not Detected	<10
14. Power Supply (403A7) - Surface	Total PCBs	Not Detected	<10
15. Power Supply Group (406) (PSDU) - Surface	Total PCBs	Not Detected	<10
16. AC Power 400 CY Panel (406) - Surface	Total PCBs	Not Detected	<10
17. Power Supply A4 (406A4)	Total PCBs	Not Detected	<10
18. Electrical Surge Arrester – Left side Top Surface (484)	Total PCBs	Not Detected	<10
19. Electrical Surge Arrester – Left side Bottom Surface (484)	Total PCBs	Not Detected	<10
20. Electrical Surge Arrester – Right side Top Surface (483)	Total PCBs	Not Detected	<10
21. Electrical Surge Arrester – Left side Bottom Surface (483)	Total PCBs	Not Detected	<10
22. Launch Tube Heater Panel (LTH)-Inside Bottom Surface	Total PCBs	Not Detected	<10

Table 2B: Air Sampling Results – PCBs

Analyte	LF Result (mg/m ³)
Aroclor 1016	<0.0023
Aroclor 1221	<0.0023
Aroclor 1232	<0.0023
Aroclor 1242	<0.0023
Aroclor 1248	<0.0023
Aroclor 1254	<0.0023
Aroclor 1260	<0.0023

Appendix 3: LF Hotel (H-10) Results, Sampled on 16 September 2024

Table 1C: PCB Swipe Sampling

Location	Analyte	Result (µg/100 cm²)	Standard (40 CFR Part 761) (µg/100 cm²)
1. PLPA Panel – Surface or Underside	Total PCBs	Not Detected	<10
2. Cable Air Dryer - Surface	Total PCBs	Not Detected	<10
3. Telephone Set Repeater - Surface	Total PCBs	Not Detected	<10
4. LDB Panel (Open)	Total PCBs	Not Detected	<10
5. LDB Panel - Underside	Total PCBs	1.81	<10
6. Receiver/Transmitter Alarm Set Drawer (475A1)	Total PCBs	Not Detected	<10
7. Battery Charger-Alarm Set Group - Surface	Total PCBs	Not Detected	<10
8. Battery Charger - Surface	Total PCBs	Not Detected	<10
9. Battery Charger Handles	Total PCBs	Not Detected	<10
10. LF Access System SDCA - Surface	Total PCBs	Not Detected	<10
11. LF Access System MDC - Surface	Total PCBs	Not Detected	<10
12. G & C Liquid Cooler (Chiller) - Surface	Total PCBs	Not Detected	<10
13. Control Monitor (403A6) - Surface	Total PCBs	Not Detected	<10
14. Power Supply (403A7) - Surface	Total PCBs	Not Detected	<10
15. Power Supply Group (406) (PSDU) - Surface	Total PCBs	Not Detected	<10
16. AC Power 400 CY Panel (406) - Surface	Total PCBs	Not Detected	<10
17. Power Supply A4 (406A4)	Total PCBs	Not Detected	<10
18. Electrical Surge Arrester – Left side Top Surface (484)	Total PCBs	Not Detected	<10
19. Electrical Surge Arrester – Left side Bottom Surface (484)	Total PCBs	Not Detected	<10
20. Electrical Surge Arrester – Right side Top Surface (483)	Total PCBs	Not Detected	<10
21. Electrical Surge Arrester – Left side Bottom Surface (483)	Total PCBs	Not Detected	<10
22. Launch Tube Heater Panel (LTH)-Inside Bottom Surface	Total PCBs	1.07	<10

Table 2C: Air Sampling Results – PCBs

Analyte	LF Result (mg/m ³)
Aroclor 1016	<0.0023
Aroclor 1221	<0.0023
Aroclor 1232	<0.0023
Aroclor 1242	<0.0023
Aroclor 1248	<0.0023
Aroclor 1254	<0.0023
Aroclor 1260	<0.0023

Appendix 4: LF India (I-09) Results, Sampled on 3 September 2024

Table 1D: PCB Swipe Sampling

Location	Analyte	Result (µg/100 cm²)	Standard (40 CFR Part 761) (µg/100 cm²)
1. PLPA Panel – Surface or Underside	Total PCBs	Not Detected	<10
2. Cable Air Dryer - Surface	Total PCBs	Not Detected	<10
3. Telephone Set Repeater - Surface	Total PCBs	Not Detected	<10
4. LDB Panel (Open)	Total PCBs	Not Detected	<10
5. LDB Panel - Underside	Total PCBs	Not Detected	<10
6. Receiver/Transmitter Alarm Set Drawer (475A1)	Total PCBs	Not Detected	<10
7. Battery Charger-Alarm Set Group - Surface	Total PCBs	Not Detected	<10
8. Battery Charger - Surface	Total PCBs	Not Detected	<10
9. Battery Charger Handles	Total PCBs	Not Detected	<10
10. LF Access System SDCA - Surface	Total PCBs	Not Detected	<10
11. LF Access System MDC - Surface	Total PCBs	Not Detected	<10
12. G & C Liquid Cooler (Chiller) - Surface	Total PCBs	Not Detected	<10
13. Control Monitor (403A6) - Surface	Total PCBs	Not Detected	<10
14. Power Supply (403A7) - Surface	Total PCBs	Not Detected	<10
15. Power Supply Group (406) (PSDU) - Surface	Total PCBs	Not Detected	<10
16. AC Power 400 CY Panel (406) - Surface	Total PCBs	Not Detected	<10
17. Power Supply A4 (406A4)	Total PCBs	Not Detected	<10
18. Electrical Surge Arrester – Left side Top Surface (484)	Total PCBs	Not Detected	<10
19. Electrical Surge Arrester – Left side Bottom Surface (484)	Total PCBs	Not Detected	<10
20. Electrical Surge Arrester – Right side Top Surface (483)	Total PCBs	Not Detected	<10
21. Electrical Surge Arrester – Left side Bottom Surface (483)	Total PCBs	Not Detected	<10
22. Launch Tube Heater Panel (LTH)-Inside Bottom Surface	Total PCBs	Not Detected	<10

Table 2D: Air Sampling Results – PCBs

Analyte	LF Result (mg/m³)
Aroclor 1016	<0.0023
Aroclor 1221	<0.0023
Aroclor 1232	<0.0023
Aroclor 1242	<0.0023
Aroclor 1248	<0.0023
Aroclor 1254	<0.0023
Aroclor 1260	<0.0023

Appendix 5: LF Kilo (K-06) Results, Sampled on 28 August 2024

Table 1E: PCB Swipe Sampling

Location	Analyte	Result ($\mu\text{g}/100\text{ cm}^2$)	Standard (40 CFR Part 761) ($\mu\text{g}/100\text{ cm}^2$)
1. PLPA Panel – Surface or Underside	Total PCBs	Not Detected	<10
2. Cable Air Dryer - Surface	Total PCBs	Not Detected	<10
3. Telephone Set Repeater - Surface	Total PCBs	Not Detected	<10
4. LDB Panel (Open)	Total PCBs	Not Detected	<10
5. LDB Panel - Underside	Total PCBs	Not Detected	<10
6. Receiver/Transmitter Alarm Set Drawer (475A1)	Total PCBs	Not Detected	<10
7. Battery Charger-Alarm Set Group - Surface	Total PCBs	Not Detected	<10
8. Battery Charger - Surface	Total PCBs	Not Detected	<10
9. Battery Charger Handles	Total PCBs	Not Detected	<10
10. LF Access System SDCA - Surface	Total PCBs	Not Detected	<10
11. LF Access System MDC - Surface	Total PCBs	Not Detected	<10
12. G & C Liquid Cooler (Chiller) - Surface	Total PCBs	Not Detected	<10
13. Control Monitor (403A6) - Surface	Total PCBs	Not Detected	<10
14. Power Supply (403A7) - Surface	Total PCBs	Not Detected	<10
15. Power Supply Group (406) (PSDU) - Surface	Total PCBs	Not Detected	<10
16. AC Power 400 CY Panel (406) - Surface	Total PCBs	Not Detected	<10
17. Power Supply A4 (406A4)	Total PCBs	Not Detected	<10
18. Electrical Surge Arrester – Left side Top Surface (484)	Total PCBs	Not Detected	<10
19. Electrical Surge Arrester – Left side Bottom Surface (484)	Total PCBs	Not Detected	<10
20. Electrical Surge Arrester – Right side Top Surface (483)	Total PCBs	Not Detected	<10
21. Electrical Surge Arrester – Left side Bottom Surface (483)	Total PCBs	Not Detected	<10
22. Launch Tube Heater Panel (LTH)-Inside Bottom Surface	Total PCBs	Not Detected	<10

Table 2E: Air Sampling Results – PCBs

Analyte	LF Result (mg/m ³)
Aroclor 1016	<0.0023
Aroclor 1221	<0.0023
Aroclor 1232	<0.0023
Aroclor 1242	<0.0023
Aroclor 1248	<0.0023
Aroclor 1254	<0.0023
Aroclor 1260	<0.0023

Appendix 6: LF Oscar (O-10) Results, Sampled on 17 September 2024

Table 1F: PCB Swipe Sampling

Location	Analyte	Result ($\mu\text{g}/100\text{ cm}^2$)	Standard (40 CFR Part 761) ($\mu\text{g}/100\text{ cm}^2$)
1. PLPA Panel – Surface or Underside	Total PCBs	Not Detected	<10
2. Cable Air Dryer - Surface	Total PCBs	Not Detected	<10
3. Telephone Set Repeater - Surface	Total PCBs	Not Detected	<10
4. LDB Panel (Open)	Total PCBs	Not Detected	<10
5. LDB Panel - Underside	Total PCBs	Not Detected	<10
6. Receiver/Transmitter Alarm Set Drawer (475A1)	Total PCBs	Not Detected	<10
7. Battery Charger-Alarm Set Group - Surface	Total PCBs	Not Detected	<10
8. Battery Charger - Surface	Total PCBs	Not Detected	<10
9. Battery Charger Handles	Total PCBs	Not Detected	<10
10. LF Access System SDCA - Surface	Total PCBs	Not Detected	<10
11. LF Access System MDC - Surface	Total PCBs	Not Detected	<10
12. G & C Liquid Cooler (Chiller) - Surface	Total PCBs	Not Detected	<10
13. Control Monitor (403A6) - Surface	Total PCBs	Not Detected	<10
14. Power Supply (403A7) - Surface	Total PCBs	Not Detected	<10
15. Power Supply Group (406) (PSDU) - Surface	Total PCBs	Not Detected	<10
16. AC Power 400 CY Panel (406) - Surface	Total PCBs	Not Detected	<10
17. Power Supply A4 (406A4)	Total PCBs	Not Detected	<10
18. Electrical Surge Arrester – Left side Top Surface (484)	Total PCBs	Not Detected	<10
19. Electrical Surge Arrester – Left side Bottom Surface (484)	Total PCBs	Not Detected	<10
20. Electrical Surge Arrester – Right side Top Surface (483)	Total PCBs	Not Detected	<10
21. Electrical Surge Arrester – Left side Bottom Surface (483)	Total PCBs	Not Detected	<10
22. Launch Tube Heater Panel (LTH)-Inside Bottom Surface	Total PCBs	Not Detected	<10

Table 2F: Air Sampling Results – PCBs

Analyte	LF Result (mg/m ³)
Aroclor 1016	<0.0023
Aroclor 1221	<0.0023
Aroclor 1232	<0.0023
Aroclor 1242	<0.0023
Aroclor 1248	<0.0023
Aroclor 1254	<0.0023
Aroclor 1260	<0.0023