

CASE #

C954-005-11

SECTION#

315-113-373

Strategic Plans for Maryland

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Entered By (Ints.) | Date

- Construction (Sic 1500-1799)
- Manufacturing (NAICS 310000-330000)
- Trade, Transportation, Utilities (NAICS 220000 & 420000-490000)
- Public Sector

Local Emphasis Programs for Maryland (LEP's)

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Entered By (Ints.) | Date

- Fall Hazards in Construction
- Struck by/Crushed by Hazards in Construction
- Electrical Hazards in Construction
- High Hazard Industries in Maryland FFY 2010
- Accident

National Emphasis Programs (NEP's)

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Entered By (Ints.) | Date

- AMPUTATE-Reducing Machine Hazards Leading to Amputations
- DI2009NR-FY2009 Data Initiative Non-Responders
- DUSTEXPL-Combustible Dust
- FIELDSAN-Field Sanitation
- LEAD-Potential Exposure to Lead in All Industries
- NURSING-Insp. in Nursing and Personal Care Facilities
- PETRO-Petro Chemical
- POULTRY-Compliance Insps in Poultry Processing Industry
- PSMPQV-Process Safety Management
- REFINERY-PSM Insps./Visits Haz Chem-Petrochem Refineries
- SILICA-Insp. Presence of Crystalline Silica/Silicates
- SSTARG10-Year 2011 Site Specific Insp. Targeting Plan
- TRENCH-Trenching and Excavation

Last Updated 09/24/10

Copy in case

Copy to Supervisors

CASE#

C9931-00511

INSPECTION#

315-113-373

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OSHA – 1 Field 42: Optional Information Codes

Entered By (Ints)/ Date

National Codes – Applicable to MOSH

Note: These codes are most often or most likely to be used, however there are other codes which may apply

- N-01 Multi Employer Inspection Number
- N-02-ABRASIVE Silica related abrasive blasting activities
- N-02-BLOOD Blood Borne Pathogen Related Inspection
- N-06-##### Programmed Construction Targeting (Enter Dodge Number)
- N-10-IMMLANG-Y Immigrant and or Hispanic worker was involved in accident
- N-10-IMMLANG-N Immigrant and or Hispanic worker was NOT involved in accident
- N-11-PORTLAND Construction Sites Where Portland Cement in Use
- N-14-FOCUS,C,# Focused – Main Contractor & No. of Contractors
- N-14-FOCUS,S Focused – Subcontractor Issued a Citation
- N-16-ASBESTOS Asbestos Involved Inspection
- N-16-COMTOWER Communication Tower Construction Inspection
- N-16-FORM Formaldehyde Involved Inspection
- N-16-LEAD Lead Involved Inspection
- N-16-PWRPRESS Mechanical Power Press Related Inspection
- N-16-RESCON Construction of Low Rise Residents (4 or fewer floors)
- N-16-SINGFAM Construction of Single Family Houses

N-20

Sampling performed 11/12/10

State Codes Currently In Use

Type ID Optional Information

S	05	Enter email address of company OR if email address is not available enter Email NONE <i>Gustave.efotte@ge.com</i>
S	06	Enter month & year case was transmitted . Example: October 2009 <i>Dec. 2010</i>
S	09	Original Case Number for follow-up Inspection
S	10	Final Order Date
S	13	Crane NIC for new crane related regulations
S	13	Crane IC for a crane related inspection with no violations of the new crane related regulations
<i>The S-15 Code is for smoking in an enclosed workplace or not posting an enclosed workplace</i>		
S	15	NIC Letter for 1 st offenders
S	15	NIC for repeat offenders
S	15	IC Unprogrammed for smoking/posting related complaints/referrals

Last Updated 09/24/10

Legal Name Verification

From: **Cristina Campbell**

Date: **11/15/10**

Case #: **C9954-005-11**

Inspection #: **315113373**

- Employer completed legal name verification form (attached)
- Charter Services (attached)
Through the state of Maryland
- Business License (attached)
- Phone call to the company:
Company Officer Name:
Title:
Legal Name Given:
- Other (explain):

Explain any discrepancies/reconciliations:

Name Card/ Letterhead:



Maryland Occupational Safety & Health

~~1131 Belair Rd, LL1
Bel Air, MD 21014
Fax: (410) 803-8652~~

Ste 160
10946 Goldenwest Dr.
Hunt Valley MD 21031
410-527-4488

In order for our records to be accurate, this form must be filled out completely, signed, and returned to our office no later than 24 hours from time of receipt. Use the fax number or the address listed above.

Legal Name of Company: MRA Systems, Inc
(Include correct grammar, abbreviations, and capitalization)

Mailing Address: 103 Chesapeake Park Plaza
Baltimore MD 21220

Street Address (if different from above):

Telephone #: (410) 682-0604

Fax # (410) 682-0027

Email address (no web pages please): gustave.efotte@ge.com

Federal Tax ID # or SSN if none: 52-206-3267

Total # of Employees Company wide: 980

The company is a: Corporation
(Check only One) Partnership (Please list names and addresses on separate paper)
 Sole Owner: _____ (name)

If the following box is checked please submit the following:

- Log 300 (Log of Injuries and Illnesses) Form for the last three full years and the current year's partial list.

I, Gustave Efotte, certify that the above information is true and correct to the best of my knowledge.

Gustave Efotte Signature EUU. Leader Title 11/15/10 Date

DEPARTMENT OF LABOR, LICENSING AND REGULATION

Division of Labor and Indust
Maryland Occupational Safety and Health



Inspection Report

Fri Dec 17, 2010 6:00PM

Rpt ID	Assignment Nr.	CSHO ID	Supervisor ID	Inspection Nr.	Opt. Insp. Nr.
0352420	903173888	C9954	V8744	315113373	00511

Establishment Name		Middle River Aircraft Systems, Inc.			
Site Address	103 Chesapeake Park Plaza Middle River, MD 21220	Site Phone	(410) 682-0604	Site Fax	(410) 682-0027
		Other			
Mailing Address	103 Chesapeake Park Plaza Middle River, MD 21220	Mail Phone	(410) 682-0604	Mail Fax	(410) 682-0027
		Other			
Controlling Corp	General Electric Aviation	Employer ID	52-2063267		
Ownership	A. Private Sector	City	1005	County	005
Legal Entity	A. Corporation	Previous Activity (State Only)			

Related Activity					
Type	Number	Satisfied	Type	Number	Satisfied
R. Referral	202808671	Health			

Employed in Establishment	980	Advance Notice?	No	Category	H. Health
Covered By Inspection	3	Union?	Yes		
Controlled By Employer	23000	Walkaround?	No	Interviewed?	Yes

SIC Inspected		Primary SIC	3721	Secondary SIC	
NAICS Inspected		Primary NAICS	336411	Secondary NAICS	

Inspection Type	C. Referral	Reason No Inspection	
Scope of Inspection	B. Partial Inspection		
Classification			
National Emphasis			
Local Emphasis			
Strategic Initiatives			

Anticipatory Warrant Served?	No	Denial Date	Date ReEntered	Date ReDenied	ReEntered
Anticipatory Subpoena Served?	No				

Entry	11/12/2010	10:30 AM	First Closing Conference	12/14/2010	02:30 PM
Opening Conference	11/12/2010	11:00 AM	Second Closing Conference		
Walkaround	11/12/2010	12:00 PM	Exit	12/14/2010	03:30 PM
Days On Site	2		Case Closed	12/17/2010	
			No Citations Issued		

Type	ID	Optional Information

CSHO Signature		Date	12-17-10
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Department of Labor, Licensing And Regulation

Division of Labor and Industry
Maryland Occupational Safety and Health



Inspection Narrative

Fri Dec 17, 2010 6:00PM

Inspection Nr.	315113373
Opt. Case Number	00511

Establishment Name	Middle River Aircraft Systems, Inc.		
Legal Entity	A. Corporation	Type of Business	Aircraft Manufacturing

Additional Citation Mailing Addresses	

Organized Employee Groups	
United Auto Workers 3 Riverton Road Baltimore, MD 21221 Voice: (410) 686-9292 Fax: (410) 686-0224	738

Union Representatives	
Brian Flening UAW Local 738 3 Riverton Road Baltimore, MD 21221	Tom Cosden UAW Local 738 3 Riverton Road Baltimore, MD 21221

Authorized Employee Representatives	

Employer Representatives Contacted						
Name	Title	Credentials Presented	Closing Conference	Opening Conference	Other Management Duties	Walk Around?
Gustave Efotte	Manager, Environmental Programs	Yes	Yes	Yes		Yes
Glenn Gruber	Interim Ehs Leader	Yes	Yes	Yes		Yes
Jack Contri	Operations Managment Leadership Program	Yes	No	Yes		Yes
Jamie Baker	Ehs Specialist	Yes	Yes	Yes		Yes

Employees Interviewed	
James Gillian 12818 Eastern Avenue Baltimore, MD 21220	

Other Persons Contacted	
Scott Beierwaltes Aircycle Corporation 2200 Ogden Avenue Suite 100 Lisle, IL 60532 Voice: (708) 223-1038 Cell: (708) 539-4342	

Entry	11/12/2010	10:30 AM	First Closing Conference	12/14/2010	02:30 PM
Opening Conference	11/12/2010	11:00 AM	Second Closing Conference		
Walkaround	11/12/2010	12:00 PM	Exit	12/14/2010	03:30 PM
			Case Closed	12/17/2010	

Followup Inspection?	NO	Reason	In Compliance
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Coverage Information/Additional Comments

SAFETY NARRATIVE

Inspection Number	315113373
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COVERAGE INFORMATION:

Middle River Aircraft Systems, Inc. (MRAS), a subsidiary of General Electric Aviation, designs, builds, and services aircraft as well as aircraft structures and parts. MRAS employs approximately 950 people at its 1.7 million square foot facility and has been located at 103 Chesapeake Park Plaza in Middle River, Maryland for the past 70 years.

NATURE AND SCOPE

Check Applicable Boxes and Explain Findings:

- Complaint Items
- Referral Items
- Accident Investigation Summary & Findings

LEP

Planned Inspection

Follow-up Inspection

NATURE AND SCOPE -- UNUSUAL CIRCUMSTANCES (Mark X and explain all that apply:)

None

Denial of entry (see denial memo)

Delays in conducting the inspection

Strikes

Jurisdictional Issues

Trade Secrets

Other

Comments:

OPENING CONFERENCE NOTES:

All aspects of the opening conference were discussed with no objections noted.

PENALTY ADJUSTMENT CALCULATION

1. HISTORY ADJUSTMENT:

Place "x" in correct box

- | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|---|---|
| A. Initial inspection/no previous employer history/previous inspections in compliance or only OTS violations cited..... | - | 0 |
| B. Previous inspection not in compliance with serious hazards, cited more than 36 months from this inspection (issuance to closing)..... | X | 5 |
| C. All other scenarios of noncompliant activity..... | - | 0 |

2. SIZE ADJUSTMENT:

- | | | |
|----------------------------|---|---|
| 1- 25 employees..... | - | 0 |
| 26-100 employees..... | - | 0 |
| 101-250 employees..... | - | 0 |
| 251 or more employees..... | X | 0 |

3. GOOD FAITH CALCULATIONS:

A. Safety and Health Program and Training Program.

Does the employer have a formal safety and health program and training program that:

Y = Yes N = No

- | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|
| 1. Is in writing?..... | Y | 0 |
| 2. Provides for management commitment and employee involvement?..... | Y | 0 |
| 3. Provides for worksite analysis and hazard identification?..... | Y | 0 |
| 4. Provides for hazard prevention and control?..... | Y | 0 |
| 5. Provides appropriate training/instructions for hazards of work being done? | Y | 0 |
| 6. Has deficiencies that are only incidental?..... | Y | 0 |
| B. <u>Employer's Injury and Illness Experience.</u> Has the employer experienced any injuries or illnesses?..... | Y | 5 |
| C. <u>Supervision, Employer Concern and Knowledge.</u> Did the employer demonstrate an appropriate level of supervision, concern and knowledge about safety and health requirements?..... | Y | 0 |
| D. <u>Increased Awareness of Violation.</u> Is there any indication that the employer acted voluntarily with either intentional disregard of the standard or plain indifference to its safety obligations?..... | N | 0 |
| E. <u>Abatement.</u> Did the employer abate or mitigate most of the alleged violations | Y | 0 |

TOTAL

5

Good Faith

25%

CLOSING CONFERENCE NOTES:

Were any unusual circumstances encountered such as, but not limited to, abatement problems, expected contest and/or negative employer attitude? If yes, explain below.

Yes No

19. Closing Conference Checklist ("x" as appropriate)

No Violations Observed

Gave Copy Employer Rights

Reviewed Hazards & Standards

Discuss Employer Rights/Obligations

Encouraged Informal Conference

Offered Abatement Assistance

Discussed Consultation Programs

Closing Conference Held with Employee Representative

Jointly Separately

Introduction

A MOSH limited scope inspection was initiated on 11/12/10 by Ms. Cristina Campbell, MOSH Industrial Hygienist as a result of a referral by Maryland Department of Environment regarding possible exposure to mercury from crushing of fluorescent lightbulbs while operating a drum crusher. The inspection was conducted at Middle River Aircraft Systems, Inc. (MRAS) located at 103 Chesapeake Park Plaza in Middle River, Maryland. The employees of MRAS are represented by the The International Union, United Automobile, Aerospace and Agricultural Implement Workers of America, Local 738.

Opening Conference

An opening conference was conducted on 08/05/10 at 2:00 p.m. by Ms. Cristina Campbell, MOSH Industrial Hygienist (IH), Mr. Michael Penn, MOSH Chief of Compliance, and Mr. Ed Hamnerberg, Maryland Department of the Environment, with Mr. Gustave Efotte, Environmental Programs Manager, Mr. Glenn Gruber, Interim EHS Leader, Jack Contri, Operations Management Leadership Program, Jamie Baker, EHS Specialist, Brian Flening, UAW Local 738 Bargaining Committee Member, and Tom Cosden, UAW Local 738 Secretary. The purpose, scope, and nature of the

inspection were discussed and the employer's rights and responsibilities were explained. The employer was given copies of the Maryland Occupational Safety and Health Act and Regulations.

A walkaround inspection was conducted on 08/05/10 at 2:15 p.m. by Ms. Campbell, Mr. Penn, and Mr. Hammerberg, with Mr. Efofte, Mr. Gruber, Ms. Baker, Mr. Contri, Mr. Flening, and Mr. Cosden. The Aircycle Bulb Eater® is a lamp crushing machine that processes spent fluorescent lamps into small, fragmented pieces. The machine, which contains an entry tube, spinner assembly, and filters is designed to fit onto an empty 55-gallon drum where intact bulbs are fed into the machine and the crushed pieces are collected inside the drum. One 55 gallon drum can hold anywhere from 300 to 1,350 bulbs depending on the diameter and length of the lamps. Literature from Aircycle alleges that the Bulb Eater® can crush "fluorescent lamps of any length into 100% recyclable material while capturing over 99.99% of the vapors released". The unit is equipped with first and second stage high efficiency particulate (HEPA) filters which filter out dust particulates, and a third stage activated carbon filter formulated with sulfur which filters out mercury vapor and neutralizes it to mercuric sulfide. The operator turns the unit on and feeds lamps into an entry tube where they are pulled into the unit by vacuum suction and crushed into small pieces. It takes approximately 1-2 seconds to crush one lamp. Once the bulbs are crushed and the operator presses the STOP button, the crusher motor stops and the vacuum continues to purge for an additional 30 seconds to remove any particulates and vapor. Clean air is exhausted out through a tube on the top of the unit. The Bulb Eater® operating procedures state that the first stage filter must be changed at least twice per drum, and the second stage filter be changed at least once every ten drums. The carbon filter will last the life of the machine. Filters are to be sealed and placed inside the full drum. The spinner assembly should be changed every 10 full drums of lamps or as needed. Different size entry tubes for feeding the bulbs in the crusher are available for purchase, and use of the correct size tube helps to maintain the integrity of the lamp throughout the crushing process and minimize external breakage. The machine housing is equipped with a safety shut off which prevents the operation of the machine if it is not installed on a drum. An Aircycle Bulb Eater®, Model 55VRS-U Premium, is used onsite outside the maintenance facility in a shipping container. According to Mr. Efofte and Mr. Gruber, the company maintains one bulb crusher at the facility inside of a small outbuilding outside of "A" building. Employees replace fluorescent bulbs throughout the facility and bring the spent bulbs to the outbuilding and place them inside a wooden box with a hinged lid. One of three Hazardous Waste Technicians operate the bulb crusher approximately 3 times per month for up to one hour at a time. According to Mr. Efofte, employees performing bulb crushing are required to wear steel toe safety shoes, safety glasses, leather palm gloves, Tyvek suit, and ½ face respirators while crushing. This IH observed employees wearing the required PPE including the respirators which were equipped with organic vapor cartridges. Employees received initial training from the manufacturer when the bulb crusher was purchased and put into operation more than five years ago. Employees receive annual refresher training in hazard communication, respiratory protection, personal protective equipment, and other topics. Mr. Gruber stated that when bulbs break in and around the storage box and bulb crusher, employees use a broom and dustpan to sweep up the bulb remnants and place into the crusher. Once the drum is full, employees change the drum by loosening the ring that seals the machine to the drum, lifting the machine off of the full drum, replacing the filter(s), placing onto an empty drum, and replacing and tightening the sealing ring. A lid is then placed and sealed onto the full drum, and the drum is transported by an outside contractor to another facility for disposal. Mr. Efofte stated that the drum waste is treated as Hazardous Waste.

Sampling

Sampling for mercury was performed on 11/12/10 while an employee crushed bulbs for 18 minutes. The employee was equipped with a Gilian low flow sampling pump (Model LFS-113D, DLLR Serial # 19897), used to sample for mercury vapor using a HYDRAR tube and mercury particulate using a prefilter consisting of a 0.8 µm mixed cellulose ester fiber filter placed in front of the tube. Samples were sent to the lab for analysis and reports revealed non-detectable levels of mercury over the 18-minute period. See attached sampling results. The OSHA permissible exposure limit for mercury is 0.1 mg/m³ as an 8-hour time weighted average (TWA). Direct readings were taken at the point of operation during the 18-minute sampling period using a Jerome J405 mercury vapor analyzer. Mercury vapor levels detected at the point of operation ranged from 0.006 mg/m³ to 0.080 mg/m³ and did not exceed the PEL at any time during the sampling. It was noted during the sampling period that the bolt ring securing the lid to the drum was missing and several bulbs broke or shattered while being fed into the entry tube of the crusher. The employee operating the crusher stated that it was common for bulbs to break while crushing.

Employee Interviews

Employees interviewed stated that they always wear safety glasses, faceshield, gloves, Tyvek suit, and ½ face respirator with organic vapor cartridges while operating the drum crusher and while performing maintenance such as changing filters and drums. Employees interviewed indicated that they had received on-the-job training and classroom training on how to operate the crusher, how to handle fluorescent lamps, and the hazards of mercury in fluorescent lamps. Employees were

aware that fluorescent lamps can contain mercury, and were familiar with good work practices and PPE to prevent exposure to mercury.

Records Review

The employer maintained OSHA 300 logs and summaries, bulb crusher filter maintenance logs, a written hazard communication program, a respiratory protection program, fit test and medical evaluation records, and hazard communication, respiratory protection, and PPE training records.

Closing Conference

A closing conference was conducted on 12/14/10 by Ms. Campbell with Mr. Gustave, Ms. Baker, Mr. Gruber, and Mr. Cosden. The referral items, inspection findings, and sampling results were reviewed. No citations were recommended. This IH reminded Mr. Gustave and others to follow the manufacturer's guidelines when operating the crusher including ensuring that employees wear appropriate cut-resistant gloves, placing spent filters into zip close bags, and maintaining a tight lid to drum seal using the drum bolt ring, among other things. This IH also suggested using mercury vapor cartridges with HEPA filters if requiring the use of respirators during crushing operations.

CSHO Signature		Date	12-17-10
Accompanied By			

Photo Mount Worksheet

Inspection Number: 315113373	OSHCO ID: C9954	Report Number: C9954-005-11	Date: 12/17/2010
Employer: Middle River Aircraft Systems, Inc.		Page 1 of 1	
		Photo ID #: 1	Date: 11/12/10
		Location (Photo & Photographer): Outbuilding located outside "A" Building	
		Photo ID #: 2	Date: 11/12/10
		Location (Photo & Photographer): Outbuilding located outside "A" Building	
		Description:	
		<p>Employees place spent fluorescent bulbs inside a wooden hinged box for crushing at a later date.</p> <p>Direct mercury vapor readings were taken at the point of operation while a Hazardous Waste Technician crushed fluorescent lamps.</p>	

SCHNEIDER LABORATORIES

INCORPORATED

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475

Excellence in Service and Technology

AIHA/ELLAP 100527, NVLAP 101150-0, NYELAP/NELAC 11413, CAELAP 2078, NC 593, SC 93003

LABORATORY ANALYSIS REPORT

Air Filter Mercury (Particulate) Analysis based on OSHA ID 145 Method

Using SLI P39 A37

ACCOUNT #: 3994-10-112

CLIENT: Maryland Dept of Labor Lic & Regulation

ADDRESS: 10946 Golden West Drive Suite 160

Hunt Valley, MD 21031

DATE RECEIVED: 11/16/2010

DATE ANALYZED: 11/16/2010

DATE REPORTED: 11/16/2010

PROJECT NAME: Middle River Aircraft

JOB LOCATION:

PROJECT NO.:

PO NO.: P00B0400052

Sample Type: AIR

SLI Sample No.	Client Sample No.	Collection Date	Sample Description	Sample Time (min)	Flow Rate (L/min)	Sample Volume (L)	Total Mercury (μg) [*]	Actual Exp ($\mu\text{g}/\text{m}^3$)	8 Hour TWA ($\mu\text{g}/\text{m}^3$)
30807622	A1	11/15/2010 12:00 PM		18	0.20	3.67	< 0.05	< 13.62	< 0.51
30807623	Blank1	11/15/2010 12:00 PM					< 0.05		

Analysis Run ID: 46931

Analyst: MARTI H. BAIRD

Total Number of Pages In Report: 1

Results relate only to samples as received by the laboratory.

Final concentration calculations are based on client supplied information.

Abisola O Kasali

Reviewed By

Abisola O. Kasali, Analyst

Visit www.slabinc.com for current certifications.

*Minimum Reporting Limit: 0.2 μg Total Mercury. OSHA PEL ceiling limit is 0.1 mg/m^3 [100 $\mu\text{g}/\text{m}^3$]. Exposure calculations are based on client-supplied information and assume zero exposure for time not sampled. *Data precision justifies 2 significant figures. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. The client is responsible for verifying applicable standards and limits. See www.osha.gov (29 CFR Part 1910.1000). Quality control data is available from the laboratory upon request.*

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INCORPORATED

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804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475

Excellence in Service and Technology

AIHA/ELLAP 100527, NVLAP 101150-0, NYELAP/NELAC 11413, CAELAP 2078, NC 593, SC 93003

LABORATORY ANALYSIS REPORT

Air Filter Mercury (Vapor) Analysis based on NIOSH 6009 Method

Using SLI P39 A37

ACCOUNT #: 3994-10-113

CLIENT: Maryland Dept of Labor Lic & Regulation

ADDRESS: 10946 Golden West Drive Suite 160

Hunt Valley, MD 21031

DATE RECEIVED: 11/16/2010

DATE ANALYZED: 11/16/2010

DATE REPORTED: 11/16/2010

PROJECT NAME: Middle River/Aircraf

JOB LOCATION:

PROJECT NO.:

PO NO.: P00B0400052

Sample Type: VAPOR

SLI Sample No.	Client Sample No.	Collection Date	Sample Description	Sample Time (min)	Flow Rate (L/min)	Sample Volume (L)	Total Mercury (μg)*	Actual Exp ($\mu\text{g}/\text{m}^3$)	8 Hour TWA ($\mu\text{g}/\text{m}^3$)
30807663	A2	11/15/2010 12:00 PM		18	0.20	3.67	< 0.050	< 13.62	< 0.51
30807664	Blank 2	11/15/2010					< 0.050		

Analysis Run ID: 46931

Analyst: MARTI H. BAIRD

Total Number of Pages in Report: 1

Results relate only to samples as received by the laboratory.

Final concentration calculations are based on client supplied information.

Abisola O Kasali

Reviewed By

Abisola O. Kasali, Analyst

Visit www.slabinc.com for current certifications.

Minimum Reporting Limit: 0.25 μg Total Mercury. OSHA PEL ceiling limit is 0.1 mg/m^3 [100 $\mu\text{g}/\text{m}^3$]. Quality control data is available from the laboratory upon request. Exposure calculations are based on client-supplied information and assume zero exposure for time not sampled. *Data precision justifies 2 significant figures. Unusual sample conditions, if any, are described. All testing is performed in strict accordance with Schneider Laboratories, Inc. protocol.



Mon Nov 1, 2010 4:54pm

399 10-113

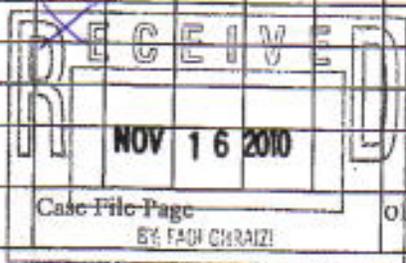
MOD	Date	Reporting ID	Inspection Number	Sampling Number	436066328
Establishment Name: Middle River Aircraft Systems					
Person Performing Sampling (Signature): C. Campbell		CSHO ID: C9934	Sampling Date: 11/2/10	Shipping Date: 11/15/10	
Employee (Name, Address, Telephone Number): James Gillian 12818 Eastern Ave. Baltimore, MD 21220			Exposure Information:	Number: 3	Duration: 5+ years
Job Title: Hazardous Waste Technician			Occupation Code:	Frequency: 1 1/2 hrs - 3x per month	Weather Conditions: outside 60° sunny
PPE (Type and Effectiveness): Safety glasses, faceshield, Tyvek suit, 1/2 face respirator w/ OV/HEPA cartridges			Photo(s): (Y)		
Job Description, Operation, Work Location(s), Ventilation and Controls: Employee operates a clam-style fluorescent lamp crusher in order to crush spent bulbs, reducing size and volume.					

Cont'd

Pump Number: "A" DLCR: 19897		Sampling Data			
Sample Type/Media	P/MCEF	P/Hydrar	MCEF	Hydrar	
Filter/Tube No.					
Sample Submission No.	A1	A2	Blanks	Blanks	
Time On/Off	12:00	12:00			
	12:18	12:18			
Total Time (in minutes)	18	18			
Flow Rate					
<input checked="" type="checkbox"/> l/min <input type="checkbox"/> cc/min	0.204	0.204			
Volume (in liters)	3.67	3.67			
Net Sample Weight (in mg)					



Exposure Summary										Citation Information							
Line No	Substance Code	Rqstd	Sampl Type	Exp Type	Exposure Level	Units	PEL	Adj	Severity	No Cit	FTA	Over Exp	Eng	PPE	Tmg	Mod	Other
1	1631	X	P	T	F	M	0.1										
2	M111	X	P	T	F	M	0.1										
3																	
4																	



Total Number of Lines: _____ Date Results Received from Laboratory: _____

Acet. # 3994