



DEPARTMENT OF THE NAVY
NAVAL HOSPITAL
2080 CHILD STREET
JACKSONVILLE, FLORIDA 32214-5000

IN REPLY REFER TO:
6260
Ser 06IHZZ/1617
20 OCT 2015

From: Commanding Officer, Naval Hospital Jacksonville
To: Director, Logistics Support Division, MCLB, Albany Georgia

Subj: PERIODIC INDUSTRIAL HYGIENE SURVEY OF THE LOGISTICS SUPPORT
DIVISION

Ref: (a) OPNAVINST 5100.23G, CH-1

Encl: (1) Executive Summary
(2) Industrial Hygiene Survey Report (AL15020)

1. A periodic Industrial Hygiene Survey of the Logistics Support Division was conducted as required by reference (a). Enclosures (1) and (2) are provided for your information.
2. Point of contact is Mr. Jeffrey Huffman or Mr. John Sorenson, Industrial Hygiene Department, at 229-639-7846.

A handwritten signature in black ink, appearing to read "B. L. Sharpe", is written over the typed name.

B. L. SHARPE
By direction

Copy to:
Risk Management Office, MCLB Albany
Occupational Health, NBHC Albany

EXECUTIVE SUMMARY

A periodic industrial hygiene survey of Logistics Support Division (LSD) Albany was conducted 26 and 27 August 2015 by Mr. Jeffrey Huffman, Industrial Hygienist to update previous industrial hygiene assessments on work center operations and note any significant changes. For hazard communication/education purposes, it is recommended that shop personnel be made aware of information provided in this report. A formal response to the Industrial Hygiene Department to any recommendation is not required.

ITEM: *Hazardous Material Management.* SDS Sheets for welding rods were not on file.

RECOMMENDED ACTION: Obtain the welding rods' SDS files, update the authorized users list (AUL), and review the hazards. Approximately, 90% of welding fumes are generated from the rod. SDS files should be reviewed periodically to ensure that all chemical products in use have an SDS associated with them is being maintained. SDS files for all remaining products must be readily available at all times. Recommend that personnel receive training in accordance with the Federal Hazard Communication Standard 29 CFR 1910.1200.

REFERENCE: OPNAVINST 5100.23G, Chapter 7, Para 0702g(10)(h)
OPNAVINST 5100.23G, Chapter 7, Para 0702g(6)
OPNAVINST 5100.23G, Chapter 6, Appendix 6-A

ITEM: *Hazard Assessments.* Since the 2013 survey, there have been no significant changes in work operations at LSD. Review of Occupational Health Programs and occupational stressors are included in Attachment (1) of this report. Attachment (2) of the report includes shop specific exposure assessments of potential hazards observed during the survey.

RECOMMENDED ACTION: Please review the program summaries in Attachment (1) and the individual work center hazard assessments in Attachment (2) for more details on all identified hazards. If there are any changes in work operations from what is described in this report, or if a focused health hazard evaluation of a specific work operation or new project is needed, please contact Mr. John Sorenson, Industrial Hygienist, Naval Branch Health Clinic, Albany at 639-7846.

ITEM: *Carcinogenic and Reproductive Hazards.* The following chemical carcinogenic and reproductive hazard was identified in your facility:

- Lead: Lead is listed on the Navy's Reproductive Hazard List and is a Navy recognized human carcinogen. The hazard is present when personnel handle ammunition as well as when picking up and sorting used bullet casings.

RECOMMENDED ACTION: While exposure to lead is assessed to be below published exposure standards, personnel should ensure exposures to these materials is as low as is practicable. Continue the good hygiene practice of washing hands and bag clothing prior to laundering to guard against residue transfer. Recommend lead awareness training for employees involved in the process of handling ammo and/or picking up and sorting used bullet casings.

Ensure that all personnel who have potential exposure to lead while working in the ammo warehouse and during sorting of bullet casings have been provided a copy of Appendix A and B of the Federal Lead Standard, 29 CFR 1910.1025.

ITEM: *Noise and Hearing Conservation.* Employees, who work in the Tire Repair Shop, are exposed to hazardous noise equipment. Recent Noise Dosimetry results indicate noise levels exceed the DoD criterion for hazardous noise of 85 dBA, as an 8-hour Time-Weighted Average (TWA). Single hearing protection is required for tasks where the noise levels are at or greater than 85 dBA and less than 96 dBA. Noise levels that are at or greater than 96 dBA require double hearing protection.

RECOMMENDED ACTION: Personnel routinely exposed on average 2 or more days per month to a TWA of 85 dBA or greater are required to be placed or continue in the Hearing Conservation Program (HCP). The HCP requires an annual audiogram to assess the effectiveness of the hearing protection devices and training. It is recommended that Garrison Mobile Equipment (GME) shop continue to emphasize the need to wear appropriate hearing protection devices continually when in designated noise hazard areas and ensure that hearing protection use is strictly enforced.

SURVEY PERIODICITY. IH surveys had historically been accomplished with an established survey frequency based on the nature of operations at the Activity/Command level in accordance with Appendix 8-B of OPNAVINST 5100.23G. Henceforth, IH surveys are to be scheduled for re-evaluation at the shop level in accordance with the IH Field Operations Manual and Bureau of Medicine's Voluntary Protection Program (VPP) Worksite Analysis policy. Individual Shop Hazard Priority Ratings and associated survey frequency are now listed on work center assessment(s) within this report and reflect either High (annual), Moderate (biennial), or Low (quadrennial) shop hazard ratings. The most current VPP shop prioritization scheme was implemented for this survey period. Shop periodicity will be continually re-assessed during future IH surveys.

The Industrial Hygiene Department will re-evaluate MCLB Logistics Support Division at the frequency specified in attachment (6).

FEEDBACK: Please take a moment to complete a short customer satisfaction survey at <https://www.surveymonkey.com/s/66ZVQRG>.

**PERIODIC INDUSTRIAL HYGIENE SURVEY
LOGISTICS SUPPORT DIVISION
ALBANY, GA
REPORT NUMBER: AL15020**

Ref: (a) OPNAVINST 5100.23G, *Navy Safety and Occupational Health Program Manual*
(b) HAVHOSPJAX ltr 6260 Ser 001/850 of 27 Nov 2013
(c) Navy and Marine Corps Public Health Center (NMCPHC) Industrial Hygiene Field Operations Manual (IHFOM)

Att: (1) Evaluation Summary
(2) Individual Hazard Assessment
(3) Exposure Monitoring Plan
(4) Medical Surveillance Summary
(5) Summary of Recent Sampling Results
(6) Re-evaluation Schedule

1. **Introduction.** Per reference (a), a periodic industrial hygiene survey of the Logistics Support Division Albany was conducted by Mr. Jeffrey Huffman, Industrial Hygienist, during 24 through 27 August 2015. The purpose of the survey was to update information reported in reference (b), and consisted of a site visit, walk-through evaluations of all work areas, a review of the hazardous material inventory, and employee interviews as appropriate to assist in the industrial hygiene assessment. The assistance of Mr. Kitras Thomas and Mr. Jason Lewis during the conduct of this survey is appreciated.

2. **Changes in Operations or Assessments.** A personal exposure assessment, specifically noise dosimetry was performed on the Tire Shop Operator (tires removed/repaired) which indicated exposures above the OEL. All programs required by reference (a) are current.

3. **Report Contents.** An evaluation summary of Navy safety and occupational health programs, control measures, and hazard evaluations is provided as attachment (1). The updated Individual Hazard Assessment is provided in attachment (2). The Exposure Monitoring Plan is provided in attachment (3). A summary of current medical surveillance recommendations is provided as attachment (4). Attachment (5) is a summary and discussion of recent sampling results. Attachment (6) provides the re-evaluation schedule for the work center.

4. **Design Reviews.** Per ref (a), industrial hygienists and safety professionals are tasked with ensuring that appropriate hazard control techniques are applied for all facility projects including both special projects and military construction projects as, in many instances, facility design engineers are not totally familiar with all potential health hazards created by various materials, equipment, and operations used in Navy industrial facilities. Please ensure that all special projects, engineering designs, purchasing contracts, and newly developed SOPs involving potential health hazards, such as toxic materials, radiation, noise, or other health hazards, are sent to Industrial Hygiene for review.

5. New Hearing Conservation Program Guidance. The Navy has directed industrial hygiene program offices via BUMEDNOTE 6260, dated 26 May 2015, to follow the Department of Defense Hearing Conservation Program guidance provided in DoD Instruction 6055.12 of December 3, 2010. This does not change or readdress all HCP elements; however, it does change two major elements. First, the Occupational Exposure Limit (OEL)/Criterion Level will be 85 dBA as an 8-hour Time-Weighted Average (TWA) instead of what we referred to previously as the Navy OEL of 84 dBA. Single hearing protection is now required for tasks where the noise levels are at or greater than 85 dBA (previously 84 dBA). Double hearing protection is now required where noise levels are at or greater than 96 dBA (previously 104 dBA). Second, noise measurement and analysis has changed. A time-intensity exchange rate of 3 dB (decibels) will now be used instead of 4 dB. Hearing protection devices (HPD's) provided by the command must be capable of attenuating worker noise exposure below an 8-hour TWA of 85 dBA and 140 dB peak. These changes have been incorporated into this survey. Additional noise measurements (sound level surveys) and/or noise dosimetry (personal monitoring on individuals) may need to be obtained in work centers to resolve compliance issues that may arise with this standard change. Examples of compliance issues that may arise might deal with the posting of hazardous noise areas, the adequacy of hearing protection devices already in use, or implementing administrative controls to bring the effective exposure to less than the DoD OEL.

6. Hearing Protection Usage and Enforcement. Under DoD guidelines, single hearing protection is required when noise levels meet or exceed 85 dBA and double hearing protection is required during activities where noise levels meet or exceed 96 dBA. Ensure that hearing protection use is strictly enforced throughout the work center(s) for personnel who perform operations that are noise hazardous or when in close proximity to noise hazardous operations or noise hazardous equipment. Hearing Protection Devices (HPDs) must be capable of attenuating work noise exposure below the 8-hour Time Weighted Average (TWA) of 85 dBA. These personnel most often use disposable hearing protection devices with an average attenuation (Noise Reduction Rating) of 26 or muffs with an average attenuation (Noise Reduction Rating) of 21. The hearing protection devices currently available for use are not capable of attenuating worker noise exposure below the OEL during normal operations.

7. Hearing Conservation. Various operations in this work center are noise hazardous and warrant the mandatory use of hearing protection. Personnel are potentially subject to noise above the DoD criteria for hazardous noise of 85 dBA as an 8-hour Time Weighted Average (TWA) on a routine basis while performing various shop operations and are recommended for participation in the Hearing Conservation Program. Personnel should continue to wear appropriate hearing protection when performing noise hazardous operations or when in close proximity to noise hazardous operations or noise hazardous equipment. On an ongoing basis, the shop should consider any means available to minimize the amount of noise exposure to personnel, including eliminating or minimizing the use of noise hazardous equipment, enclosing or sound-dampening noise sources, using personnel rotation, and considering noise levels when evaluating new or replacement equipment. All noise hazardous areas/equipment should remain labeled with appropriate noise hazard signs/stickers. Should tasks change such that worker noise exposures are affected, notify the Industrial Hygiene Department so that another assessment can be conducted.

8. Hazardous Materials Control and Management (HMC&M). The Hazardous Material Inventory and AUL requires updating. Some materials were not listed on the AUL. Safety Data Sheets (previously known as Material Safety Data Sheets (MSDS)) are required to be maintained for each chemical to meet OSHA and DoD requirements. As a reminder, the 2016 deadline to have updated Safety Data Sheets is approaching. Therefore, all SDS should be updated to the current OSHA requirements.

9. Regulatory Compliance. In accordance with OPNAVINST 5100.23G, Navy Safety and Occupational Health Program Manual, the Navy requires each activity to implement safety and health programs consistent with the Occupational Safety and Health Administration standards. The primary objective is to ensure a safe and healthful work environment for all Navy personnel.

Where employees interact with items that contain lead residue, as is the case for employees who work in the ammo warehouse as well as those who sort and pick-up used bullet casings; including welders that may come in contact with various heavy metals during the course of their work activity. It is important for the command to understand that housekeeping and hygiene issues are of importance. It was identified during the survey that employees would benefit from a refresher course on how to protect themselves against exposure to lead residue as outlined in CFR 29 1910.1025 as well as other heavy metals they may come into contact with. OSHA has several specific standards dealing with heavy metals. The OSHA standards have a complete list of elements that should be followed depending on the particular situation you are faced with. Industrial Hygiene is available to provide assistance where and when needed.

10. Re-evaluation Schedule and Changes in the Workplace. Please retain this report on file and post in a common work area location for personnel to review. The Industrial Hygiene Department will re-evaluate the LSD work centers at the frequency specified in attachment (6). However, any significant change in the type of operations performed, new equipment acquired, workplace setting, or change in the kind or amount of chemicals used will result in a need for a re-evaluation of the affected area. The Industrial Hygiene Department should be notified of such changes, per reference (a). For future reference, should any employee have a possible health-related concern that he/she believes may be related to the workplace, the employee should report the issue to the supervisor when it occurs and be evaluated by Occupational Medicine Services.

EVALUATION SUMMARY
PERIODIC INDUSTRIAL HYGIENE SURVEY
MCLB, LOGISTICS SUPPORT DIVISION (LSD)
ALBANY, GA
REPORT NO. AL15020

New or Significantly Modified Work Center Operations/Processes?

- No *significant* changes in operations/processes were identified.
 The following changes were identified:

*For purposes of this survey, "*significant* changes" are defined as workplace modifications that require a change in recommended medical surveillance enrollment, personal protective equipment, or exposure control measures (ventilation, etc.).

Program Findings and Recommendations

1. Medical Surveillance Program Status. Attachment (4) provides a summary of current medical surveillance needs.

- No Medical Surveillance is Recommended.
 Medical Surveillance is Recommended.
 No Change in Medical Surveillance Recommendations.
 Medical Surveillance Recommendations have changed as follows:

Comments: The Motor Vehicle Maintenance and Repair and the Tire Repair Shop Employees are required to be part of the Hearing Conservation Program (Annual Audiogram). See Attachment (4).

2. Hazardous Material Control and Management (HMC&M) Program:

- AUL Y N N/A Accurate Y N
 SDS Files Y N N/A Accurate Y N
 HAZMAT Training Required? Y N (Note: IH does not track training completion).
 Other (lead, asbestos, etc.): Y N

Comments: Shop should revise its AUL to reflect actual material used (i.e., welding rods, etc.) and update the SDSs. Personnel who work with or near stressors such as heavy metals and/or reproductive hazards are required to receive training in accordance with the requirements of OPNAVINST 5100.23G.

3. Management of Reproductive Hazards:

- Reproductive Hazards Present? Y N
 Any changes from previous survey? Y N

Comments: Reproductive hazards listed in OPNAVINST 6000.1C or NMCPHC-TM-OEM 6260.01C have been identified in this work center. It is recommended that, wherever possible, the work center reduce, minimize, and/or eliminate the reproductive hazards and personnel exposure. See Attachment (2) for further details.

4. Noise and Hearing Conservation Program (HCP):

- Are personnel recommended for the HCP? Y N
 Are personnel receiving audiograms? Y N N/A With Comments
 Is hearing protection readily available? Y N N/A
 Is hearing protection used? Y N N/A Not Available for Observation
 Are HPD's in use effective? Y N N/A

Comments: Hazardous noise is defined by the DoD as exposure to noise levels greater than 85 dBA (continuous or intermittent), or 140 dB peak sound pressure level for impact or impulse noise. Shop personnel are potentially subject to noise above the DoD criterion for hazardous noise of 85 dBA as an 8-hour Time-Weighted Average (TWA) on a routine basis while performing Tire Repair work and should participate in the Hearing Conservation Program. If any worker enters a noise hazard area or uses noise hazard equipment, they should wear the appropriate hearing protection. Ensure that hearing protection use is strictly enforced throughout the work center.

5. Respiratory Protection:

- Are respirators used to control workplace exposures? Y N
 Are they effective? Y N N/A
 Is the Respiratory Protection Program satisfactory? Y N N/A

Comments: Respirator use is not required for operations/processes performed in this division.

6. Ventilation:

- Are ventilation systems used to control workplace exposures? Y N
 Are the systems effective and operating properly? Y N N/A

Comments: Located throughout the facility are large floor fans, bay doors (left open almost all of the time) providing natural ventilation, and 4 roof-top exhaust vents located in the ceiling of the welding shop. The Welding Shop was not equipped with a local exhaust ventilation (LEV) system that could be positioned to remove welding fume from the breathing zone.

7. Ergonomics:

Ergonomic risk factors were identified pertaining to: shop work office/computer work

Available equipment/furniture incorporates good ergonomic design? Y N N/A

Ergonomic training recommended? Y N (Note: IH does not track training completion)

Comments and/or Recommendations: Administrative personnel perform computer work for up to 8 hours per day. All workstations should be adjusted properly to meet worker's needs. Workers perform a number of tasks that may involve heavy lifting and awkward positions. Lift equipment is available. As tools/equipment reach end of service life replace with ergonomically designed items. For future reference, any worker experiencing hand, arm, neck, shoulder, and/or back pain should visit the Occupational Health Clinic for evaluation and documentation of their condition, particularly if training and proper adjustment of equipment fails to alleviate the symptoms.

8. Other Applicable Programs:

Lead Control

Asbestos Control

Carcinogens

Other

Comments: Potential exposure above the Medical Surveillance Action Level (MSAL) for stressors associated with operations in this shop is not anticipated (lead, other heavy metal(s) welding fumes). It is recommended that, wherever possible, the work center reduce, minimize, and/or eliminate personnel exposure. See Attachment (2) for further details.

Consultative or Special Surveys/Findings Since the Previous Survey: (check if none)

Noise Dosimetry was conducted for Tire Repair Shop employees. An employee was found to have noise exposure levels well above the action level and, as a result, personnel are required to wear hearing protection full-time when performing this task and be included in the Hearing Conservation Program.

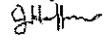
Additional Comments: Management as well as workers should consider all possible means to minimize the potential for both airborne and ingestion-based workplace exposures. Engineering controls to reduce airborne exposures and minimize dust contamination should be employed where warranted and as recommended by Industrial Hygiene. Surfaces should be regularly cleaned by HEPA-filtered vacuums or wet wiping (dry sweeping and the use of compressed air to clean surfaces or clothing is prohibited). Proper housekeeping procedures, good hygiene practices, and use of personal protective equipment should be engrained into normal work practices. Personnel should wash their hands (as well as face and forearms, if needed) prior to eating, drinking, smoking, chewing tobacco or gum, using the bathroom, and if applicable, before applying cosmetics. Refresher hazard communication training, specific for lead and other heavy metals, is recommended for those who may be exposed as part of their job function.

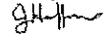
INDIVIDUAL HAZARD ASSESSMENT		DATE: 24 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 3500, Room 19 SHOP NAME: LSD Admin. Support Office SHOP HAZARD PRIORITY RATING: III (Low)		POC: Ms. Kelly Eadie TELEPHONE: 639-6733 TOTAL PERSONNEL: 4 MALES: 1 FEMALES: 3		
SHOP OPERATIONS: Administrative offices. Assist motor-pool, base supply, & DSSE Base Store. Handle funding, purchasing and contract items. Workers in these offices conduct meetings, write, and process paper work. They operate computers, copy machines, facsimile machines and other standard office equipment.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Ergonomics: Office and desk work	8 hrs./day	4	Ergonomically adjustable furniture is in use. Education and training to properly use furniture that is provided.	ACCEPTABLE: Due to adjustable furniture and training. <i>For Internal use:</i> EER-2/HER-2/ HRR-4
EXPOSURE ASSESSMENT DEFINITIONS: ACCEPTABLE - One where the IH will not expect the SEG to be exposed above the selected OEL. UNCERTAIN - Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE - One where the IH will expect the SEG to be exposed above the selected OEL. SKIN - The material poses a skin absorption hazard. REPRO HAZARD - The material is a Navy recognized reproductive hazard. CARCINOGEN - The material contains >0.1% of an OSHA, ACGIH, IARC, or NTP-recognized carcinogen.				
Note: "Exposed" refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account.				
DOEHRS Processes: 1) Office Administration				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 24 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE:  COMMAND: MCLB, Logistics Support Division BUILDING NUMBER: 3500, Room 501 & 503 SHOP NAME: Distribution Management Office SHOP HAZARD PRIORITY RATING: III (Low)		POC: Virginia Cruz TELEPHONE: 639-5134 TOTAL PERSONNEL: 6 MALES: 2 FEMALES: 4		
SHOP OPERATIONS: Administrative offices. Assist both civilian and active duty with household goods/joint personal property. They also schedule passenger travel for active duty and dependents. Workers in these offices conduct meetings, write, and process paper work. They operate computers, copy machines, facsimile machines and other standard office equipment. One worker performs inspections of household goods outside of the office. She does no lifting.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Ergonomics: Office and desk work	8 hrs./day	6	Ergonomically adjustable furniture is in use. Education and training to properly use furniture that is provided.	ACCEPTABLE: Due to adjustable furniture and training. <i>For Internal use:</i> EER-2/HER-2/ HRR-4
EXPOSURE ASSESSMENT DEFINITIONS: ACCEPTABLE - One where the IH will not expect the SEG to be exposed above the selected OEL. UNCERTAIN - Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE - One where the IH will expect the SEG to be exposed above the selected OEL. SKIN - The material poses a skin absorption hazard. REPRO HAZARD - The material is a Navy recognized reproductive hazard. CARCINOGEN - The material contains >0.1% of an OSHA, ACGIH, IARC, or NTP-recognized carcinogen.				
Note: "Exposed" refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account.				
DOEHRS Processes:				
1) Office Administration				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 25 August 2015		
RECORDED BY: Jeffrey Huffinan SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 2200, 1330, 1260 & 1259 SHOP NAME: Tool Room, General Storage, Hazmat Storage, & Cylinder Warehouse SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Felecia R. Smith TELEPHONE: 639-5879 TOTAL PERSONNEL: 25 MALES: 22 FEMALES: 4		
SHOP OPERATIONS: The Tool Room, located in building 2200, houses a retrieval system for special hand tools along with a racking system that holds gloves, rain suits, and jackets. Workers in warehouse 1330 receive, store, and issue out materials used by all areas of MCLB. Building 1260, known as the HAZMAT storage warehouse, is a repository for all chemicals brought on-site. Building 1259, known as the Cylinder Warehouse, houses compressed gas cylinders both full and spent.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Noise: Office and warehouse Areas	8 hrs./day	15	None	ACCEPTABLE: Based upon IH observations during walkthrough. Noise is a NMCPHC listed reproductive hazard. <i>For Internal use:</i> EER-1/HER-4/HRR-4
Carbon Monoxide (incomplete combustion product(s): Propane fork lift operation - inhalation of Exhaust gases	As required, just 2 or 3 lifts per day.	8	Direct ventilation, large garage doors remain open and several large air circulation fans.	ACCEPTABLE: Due to low frequency of use and good engineering controls. Carbon monoxide is a NMCPHC listed reproductive hazard. <i>For Internal use:</i> EER-2/HER-3/HRR-6
Ergonomics: Office and desk work	8 hrs./day	4	Ergonomically adjustable furniture is in use. Education and training to properly use furniture that is provided.	ACCEPTABLE: Due to engineering controls. <i>For Internal use:</i> EER-2/HER-2/ HRR-4
EXPOSURE ASSESSMENT DEFINITIONS: ACCEPTABLE - One where the IH will not expect the SEG to be exposed above the selected OEL. UNCERTAIN - Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE - One where the IH will expect the SEG to be exposed above the selected OEL. SKIN - The material poses a skin absorption hazard. REPRO HAZARD - The material is a Navy recognized reproductive hazard. CARCINOGEN - The material contains >0.1% of an OSHA, ACGIH, IARC, or NTP-recognized carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 25 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 2200, 1330, 1260 & 1259 SHOP NAME: Tool Room, General Storage, Hazmat Storage, & Cylinder Warehouse SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Felecia R. Smith TELEPHONE: 639-5879 TOTAL PERSONNEL: 25 MALES: 22 FEMALES: 4		
SHOP OPERATIONS: The Tool Room, located in building 2200, houses a retrieval system for special hand tools along with a racking system that holds gloves, rain suits, and jackets. Workers in warehouse 1330 receive, store, and issue out materials used by all areas of MCLB. Building 1260, known as the HAZMAT storage warehouse, is a repository for all chemicals brought on-site. Building 1259, known as the Cylinder Warehouse, houses compressed gas cylinders both full and spent.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Note: "Exposed" refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account.				
DOEHRS Processes: <ol style="list-style-type: none"> 1) Supplies/Materials Handling, Forklift Operation 2) Office Administration 				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 24 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 1330 SHOP NAME: Garrison Property SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Tammy Siasi TELEPHONE: 229-639-5876 TOTAL: 13 PERSONNEL: 7 MALES: 6 FEMALES:		
SHOP OPERATIONS: The workers in this area store, warehouse, and base property mostly consisting of office furniture, and general supplies. These employees also assemble and deliver new furniture.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Noise: Office and warehouse areas	8hrs./day	13	None	ACCEPTABLE: Based upon IH observations during walkthrough. Noise is a NMCPHC listed reproductive hazard. <i>For Internal use:</i> <i>EER-1/HER-4/HRR-4</i>
Carbon Monoxide (incomplete combustion product(s): Propane fork lift operation - inhalation of Exhaust gases	>1 hrs./day	5	Eng.Control: Direct ventilation, large garage doors remain open and several large air circulation fans.	ACCEPTABLE: Due to low frequency of use and good engineering controls. Carbon monoxide is a NMCPHC listed reproductive hazard. <i>For Internal use:</i> <i>EER-2/HER-3/HRR-6</i>
Hydrogen gas/Acid: Indoor battery charging station for electric fork lifts	Minimal exposure, batteries are recharged at night when the building is empty.	3	Administrative Control; Batteries are recharged overnight when workers are not present. Large warehouse with Ceiling fans provide area ventilation	ACCEPTABLE: Due to ventilation and administrative controls. <i>For Internal use:</i> <i>EER-1/HER-5/HRR-5</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 24 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 1330 SHOP NAME: Garrison Property SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Tammy Siasi TELEPHONE: 229-639-5876 TOTAL: 13 PERSONNEL: 7 MALES: 6 FEMALES:		
SHOP OPERATIONS: The workers in this area store, warehouse, and base property mostly consisting of office furniture, and general supplies. These employees also assemble and deliver new furniture.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Ergonomics: Office and desk work	8 hrs./day	10	Ergonomically adjustable furniture is in use. Education and training to properly use furniture that is provided.	ACCEPTABLE: Due to engineering controls. <i>For Internal use: EER-2/HER-2/ HRR-4</i>
Ergonomics: Movement and Lifting of furniture	>1hr./day	6	Lifting equipment such as dollies, 2nd man assistance, hydraulic lifts, and fork lifts.	ACCEPTABLE: Due to availability of lifting equipment. <i>For Internal use: EER-3/HER-2/ HRR-6</i>
EXPOSURE ASSESSMENT DEFINITIONS: ACCEPTABLE - One where the IH will not expect the SEG to be exposed above the selected OEL. UNCERTAIN - Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE - One where the IH will expect the SEG to be exposed above the selected OEL. SKIN - The material poses a skin absorption hazard. REPRO HAZARD - The material is a Navy recognized reproductive hazard. CARCINOGEN - The material contains >0.1% of an OSHA, ACGIH, IARC, or NTP-recognized carcinogen.				
Note: "Exposed" refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account.				
DOEHRS Processes:				
1) Office Administration 2) Supplies/Materials Handling, Forklift Operation 3) Supply and Materials Handling, Supply and Materials Handling, NOC				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 25 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 1330, Door 13A SHOP NAME: Armory and Ammo Warehouse SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Cesar Gilcardona TELEPHONE: 229-639-9629 TOTAL PERSONNEL: 4 MALES: 4 FEMALES: 0		
SHOP OPERATIONS: This area consists of Active Duty Marines. They store and issue out small arms and ammunition to USMC personnel. All weapons cleaning and maintenance is performed by the user, not these employees. These employees issue out the oils and solvents in closed containers and are not exposed to these contents. They may lift 45-60 pound ammo boxes, and bend to pick up and sort spent shell casings.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Noise: Office and warehouse Areas	8hrs/day	4	N/A	ACCEPTABLE: Based upon IH observations during walkthrough. No noise hazards were observed. Noise is a NMCPHC listed reproductive hazard. <i>For Internal use:</i> EER-1/HER-4/HRR-4
Lead: Picking up and sorting used bullet casings, contact with toxic residues.	1x/2 month period	2	Protective gloves should be worn. Any glove that provides a barrier from solid particulate (rubber, nitrile, vinyl, or other) Recommend proper hygiene & housekeeping practices	ACCEPTABLE: Due to low duration and frequency. Lead is a NMCPHC listed reproductive hazard. Recommend proper hygiene & housekeeping practices in regard to lead containing products, i.e. frequent hand washing, no food/beverage consumption or other hand to mouth, and clean up using damp wiping or HEPA vacuums. <i>For Internal use:</i> EER-2/HER-4/HRR-8
Ergonomics: Lifting ammo boxes	As required	2	2nd man assistance when required, Explosive Proof Forklift (only accessible when brought to location)	ACCEPTABLE: Due to availability of lifting equipment. <i>For Internal use:</i> EER-3/HER-2/ HRR-6

INDIVIDUAL HAZARD ASSESSMENT		DATE: 25 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE: <i>J. Huffman</i> COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 1330, Door 13A SHOP NAME: Armory and Ammo Warehouse SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Cesar Gilcardona TELEPHONE: 229-639-9629 TOTAL PERSONNEL: 4 MALES: 4 FEMALES: 0		
SHOP OPERATIONS: This area consists of Active Duty Marines. They store and issue out small arms and ammunition to USMC personnel. All weapons cleaning and maintenance is performed by the user, not these employees. These employees issue out the oils and solvents in closed containers and are not exposed to these contents. They may lift 45-60 pound ammo boxes, and bend to pick up and sort spent shell casings.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
EXPOSURE ASSESSMENT DEFINITIONS: ACCEPTABLE - One where the IH will not expect the SEG to be exposed above the selected OEL. UNCERTAIN - Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE - One where the IH will expect the SEG to be exposed above the selected OEL. SKIN - The material poses a skin absorption hazard. REPRO HAZARD - The material is a Navy recognized reproductive hazard. CARCINOGEN - The material contains >0.1% of an OSHA, ACGIH, IARC, or NTP-recognized carcinogen.				
Note: "Exposed" refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account.				
DOEHRS Processes: 1) Supplies/Materials Handling, Forklift Operation 2) Supply and Materials Handling, Supply and Materials Handling, NOC				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 26 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 5400 SHOP NAME: GME (Motor Vehicle Maintenance/Repair) SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Ronnie Williams TELEPHONE: 639-5606/5665 TOTAL: 37 PERSONNEL: 35 MALES: 2 FEMALES:		
SHOP OPERATIONS: Motor vehicle maintenance and repair are tasked with providing maintenance (both preventive and corrective maintenance) for all tenants on the base that have government owned vehicles. They also provide transport for people, equipment, and cargo (including hazardous chemicals)				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Noise: Vehicle Maintenance (Corrective/Preventive), Pneumatic hand tool use See Attachment (5) for sample results.	4-5 hrs./day	12	Ear plugs or muffs (Hearing Protection will be required at all times when vehicle maintenance is being performed.)	EXPOSED: Noise Monitoring; specifically, noise dosimetry that was performed, indicates this job function requires the individual to be part of the Hearing Conservation Program (HCP) Noise is a NMCPHC listed reproductive hazard. <i>For Internal use: EER-2/HER-4/HRR-4</i>
Carbon Monoxide (incomplete combustion product(s)); General Shop Operations, Inhalation of engine exhaust	8 hrs./day	37	Natural ventilation, Engines are not run for more than 3 minutes inside of the garage area.	ACCEPTABLE: Due to ventilation systems, shop area has large garage doors at both ends which are kept open at all times. There are also large fans that are kept running and a large exhaust duct. There is good air movement through the garage area. Exposure to incomplete combustion products is intermittent in this shop and has been regarded as acceptable; however, employees are requesting that a CO (g) survey be performed. This will be added to the Exposure Monitoring Plan. Carbon monoxide is a NMCPHC listed reproductive hazard. <i>For Internal use: EER-2/HER-4/HRR-8</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 26 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 5400 SHOP NAME: GME (Motor Vehicle Maintenance/Repair) SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Ronnie Williams TELEPHONE: 639-5606/5665 TOTAL: 37 PERSONNEL: 35 MALES: 2 FEMALES:		
SHOP OPERATIONS: Motor vehicle maintenance and repair are tasked with providing maintenance (both preventive and corrective maintenance) for all tenants on the base that have government owned vehicles. They also provide transport for people, equipment, and cargo (including hazardous chemicals)				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Solvents (Parts Cleaning): d-limonene (citrikleen HD), petroleum distillates	Less than weekly. Approx. 5 minutes per week	12	Neoprene, Nitrile, or Viton gloves and face shield of safety goggles.	ACCEPTABLE: Due to low toxicity of solvent and non-contact drain and disposal system. The parts cleaning is done in a Safety-Kleen cleaning box which drains directly into the HAZMAT barrel. <i>For Internal use: EER-2/HER-2/HRR-4</i>
Asbestos: Brake repair, potential asbestos exposure (while remote) to older brake pads during change out process	About 2 hrs./month	12	Only "Asbestos Free" brakes are installed. Wet methods are used when removing all brakes and clutches in the event an asbestos brake pad is encountered.	ACCEPTABLE: Due to low frequency, use of Asbestos free brake pads and wet methods. Asbestos is a known carcinogen. <i>For Internal use: EER-2/HER-5/HRR-10</i>
Filling Diesel Exhaust Fluid: 32-33% Urea, 67-68% water	monthly	44	Hose and pump system, rubber gloves.	ACCEPTABLE: Due to low toxicity of fluid. <i>For Internal use: EER-2/HER-2/HRR-4</i>
EXPOSURE ASSESSMENT DEFINITIONS: ACCEPTABLE - One where the IH will not expect the SEG to be exposed above the selected OEL. UNCERTAIN - Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE - One where the IH will expect the SEG to be exposed above the selected OEL. SKIN - The material poses a skin absorption hazard. REPRO HAZARD - The material is a Navy recognized reproductive hazard. CARCINOGEN - The material contains >0.1% of an OSHA, ACGIH, IARC, or NTP-recognized carcinogen. Note: "Exposed" refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 26 August 2015		
RECORDED BY: Jeffrey Huffman		POC: Ronnie Williams		
SIGNATURE: 		TELEPHONE: 639-5606/5665		
COMMAND: MCLB, Logistics Support Division (LSD)		TOTAL: 37		
BUILDING NUMBER: 5400		PERSONNEL: 35		
SHOP NAME: GME (Motor Vehicle Maintenance/Repair)		MALES: 2		
SHOP HAZARD PRIORITY RATING: II (Moderate)		FEMALES:		
SHOP OPERATIONS: Motor vehicle maintenance and repair are tasked with providing maintenance (both preventive and corrective maintenance) for all tenants on the base that have government owned vehicles. They also provide transport for people, equipment, and cargo (including hazardous chemicals)				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
DOEHRS Processes:				
1) Vehicle Maintenance, Vehicle Maintenance, NOC				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 26 August 2015		
RECORDED BY: Jeffrey Huffman SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 5400 SHOP NAME: GME (Tire Repair) SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Ronnie Williams TELEPHONE: 639-5606/5665 TOTAL PERSONNEL: 3 MALES: 3 FEMALES: 0		
SHOP OPERATIONS: Tire Repair shop is responsible for all aspects of tire maintenance. They bring in tires from the field, (where a tire has failed, at some location on the base, and must be brought in and repaired), shop repair (vehicle is able to make it into the shop itself), and when tires simply need to be replaced due to normal wear.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Noise: Operations include dismounting the tire with tire rim remover, seating tool, and air compressor. See Attachment (5) for sample results.	8 hrs./day	3 *Note there is only 1 employee who routinely performs this job function; however, an additional 2 employees may assist when required.	Ear plugs or muffs (Hearing Protection will be required at all times when tire maintenance is being performed.)	UNACCEPTABLE: Noise monitoring; specifically, noise dosimetry that was performed, indicates this job function requires the individual to be part of the Hearing Conservation Program (HCP). Noise is a NMCPHC listed reproductive hazard. <i>For Internal use: EER-3/HER-4/HRR-12</i>
EXPOSURE ASSESSMENT DEFINITIONS: ACCEPTABLE - One where the IH will not expect the SEG to be exposed above the selected OEL. UNCERTAIN - Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE - One where the IH will expect the SEG to be exposed above the selected OEL. SKIN - The material poses a skin absorption hazard. REPRO HAZARD - The material is a Navy recognized reproductive hazard. CARCINOGEN - The material contains >0.1% of an OSHA, ACGIH, IARC, or NTP-recognized carcinogen.				
Note: "Exposed" refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account.				
DOEHRS Processes: 1) Vehicle Maintenance, Vehicle Tire Repair				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 26 August 2015		
RECORDED BY: Jeffrey Huffinan SIGNATURE:  COMMAND: MCLB, Logistics Support Division (LSD) BUILDING NUMBER: 5400 SHOP NAME: GME (Welding) SHOP HAZARD PRIORITY RATING: II (Moderate)		POC: Ronnie Williams TELEPHONE: 639-5606/5665 TOTAL PERSONNEL: 2 MALES: 2 FEMALES: 0		
SHOP OPERATIONS: GME Welding is a separate shop located inside the GME maintenance facility. Personnel modify existing metal pieces as well as perform fabrication. They mostly perform minor welding projects but, on occasion, encounter large projects that may last several days.				
HEALTH HAZARDOUS STRESSORS AND ASSOCIATED OPERATIONS	DURATION / FREQUENCY OF EXPOSURE	NUMBER OF WORKERS	EXISTING CONTROLS	EXPOSURE ASSESSMENT
Heavy Metal Exposure: Welding hazards include potential heavy metals, e.g. iron, manganese, lead, etc. *Note – type of metal welded on and welding rod (SDS Sheet) should be checked to determine hazards associated.	3x/mon 2-4 hrs./day (small project) 2 days, 8 hrs./day (large project)	2	Welders leather gloves, apron, helmet with shaded lenses and ventilation (natural ventilation from large bay door, and 4 roof-top exhaust vents).	ACCEPTABLE: Due to low frequency and duration as well as ventilation sources that are present. Lead is listed by NMCPHC as being both a reproductive and carcinogen hazard. Manganese is listed by NMCPHC as being a reproductive hazard. The shop is not equipped with local exhaust ventilation (LEV) for welding operations. <i>For Internal use: EER-2/HER-3/HRR-6</i>
UV Keratitis: Welding operations.	3x/mon 2-4 hrs./day (small project) 2 days, 8 hrs./day (large project)	2	Helmet with shaded lenses, ventilation, and welders leather gloves, apron	ACCEPTABLE: Due to shaded lenses with adjustability. <i>For Internal use: EER-2/HER-3/HRR-6</i>
EXPOSURE ASSESSMENT DEFINITIONS: ACCEPTABLE - One where the IH will not expect the SEG to be exposed above the selected OEL. UNCERTAIN - Additional data needs to be collected to clarify the exposure assessment. The IH should make an interim exposure assessment based on observation of the process and/or professional judgment. UNACCEPTABLE - One where the IH will expect the SEG to be exposed above the selected OEL. SKIN - The material poses a skin absorption hazard. REPRO HAZARD - The material is a Navy recognized reproductive hazard. CARCINOGEN - The material contains >0.1% of an OSHA, ACGIH, IARC, or NTP-recognized carcinogen.				
Note: "Exposed" refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account.				
DOEHRS Processes: 1) Brazing/Soldering/Welding/Cutting, Welding, NOC				

EXPOSURE MONITORING PLAN
MCLB, LOGISTICS SUPPORT DIVISION (LSD)
ALBANY, GA
REPORT NUMBER: AI.15020

INDUSTRIAL HYGIENIST: John Sorenson SURVEY PERIOD: 2015/2017

IH TECHNICIAN: TBD

SHOP POC: Mr. Ronnie Williams, Supervisor PHONE: 639-5606/5665

OPERATION AND STRESSOR TO BE MONITORED	# SAMPLES REMAINING TO CATEGORIZE EXPOSURE	I METHOD	II AREA	III FREQ*	IV MAN- HOURS
A. Carbon Monoxide: CO(g) monitoring should be performed during the cold season and when highest output is underway in order to obtain a representative sample. A minimum of 6 spot check location samples should be performed throughout the entire Vehicle Maintenance Shop. Rationale: D Priority: 4	N/A	DR	GA	2	5.0
Action:					
B. Welding Fume: Welding Shop: ICP	2	F	BZ	1	18.0
Action:					
Monitoring Plan Completion Reviewed By:				Total Hours:	23.0
I Method of Measurement	II Area	III Frequency	IV Man-hours (Type/Number of Units/Hours)		
DR -- DIRECT READING INSTRUMENT	BZ-- BREATHING ZONE	1 - 1X/YEAR	AIR: Full Shift for each area: Up to 3	9	
IT -- INDICATOR TUBE	HZ-- HEARING ZONE	2 - 2X/YEAR	BREATHING AIR: Each Line	2.5	
F -- FILTER	GA-- GENERAL AREA	3 - 3X/YEAR	HEAT STRESS: Full Shift	8	
PD -- PERSONAL DOSIMETER	SZ-- SOURCE ZONE	4 - 4X/YEAR	NOISE DOSIMETRY: Full Shift: Up to 5	9	
AT -- ADSORPTION TUBE (CHARCOAL, SILICA GEL, ETC.)	O-- OTHER (SPECIFY)	5 - 1X/2 YEARS	NOISE SLM: All Sources: Up to 5	2.5	
		6 - 1X/4 YEARS	VENTILATION: All Hoods, Tanks, or Exhausts: Up to 5	3.5	
			VENTILATION: Air Changes: Up to 3	2.5	
			VENTILATION: Each Walk-In Booth	2.5	
			VENTILATION: Operating Rooms: Each survey: 6 rooms (10 air supply/ 9 exhaust units)	18	
			STEL: Up to 3 samples	1.5	

* For BZ & Dosimetry, unless otherwise specified, collect up to 5 samples per evolution as operational availability permits.

Sample Rationale:

- (A) - Fulfill regulatory sampling requirements.
- (B) - Collect sufficient data to allow statistically valid exposure assessments.
- (C) - Track workplace exposures to determine trends.

(D) - Validate professional judgments of unchanged exposure assessments.

Priority Category:

Priority 1: Needed to fulfill regulatory requirements (Federal, Navy, BUMED, etc.)

Priority 2: Noise dosimetry and non regulatory personal breathing zone sampling.

Priority 3: Other sampling needed in order to provide a more accurate or statistically valid exposure assessment.

Priority 4: Needed to validate professional judgment and/or to refresh existing data.

Regardless of the **Priority** assigned, exposure monitoring is an essential part of the Industrial Hygiene Program for the command. Command participation in the sampling process is necessary. It is requested that every effort be given to cooperating with the personnel assigned to perform the exposure monitoring. Cooperation by both artisans and supervisory personnel will expedite the sampling and minimize intrusion into work center operations.

**MEDICAL SURVEILLANCE SUMMARY
LOGISTICS SUPPORT DIVISION
MARINE CORPS LOGISTICS BASE
REPORT NUMBER: AL15020**

INDUSTRIAL HYGIENIST: Mr. John Sorenson

SURVEY PERIOD: 2015/2017

SHOP POC: Mr. Ronnie Williams, Supervisor

PHONE: 639-5606/5665

SHOP	HAZARD/GROUP EXPOSED	CONTROLS	MEDICAL EVALUATION	CODE ¹	COMMENTS ^{2,3}
GME (Motor Vehicle Maintenance and Repair)	Noise – all employees associated with this process.	Earplugs and/or earmuffs	Hearing Conservation Program	503	See Comment 2 below.
GME (Tire Repair Shop)	Noise – all employees associated with this process.	Earplugs and/or earmuffs	Hearing Conservation Program	503	See Comment 2 below.

CODE REFERENCE: 1. NMCPHC *Medical Surveillance Procedures Manual and Medical Matrix*, latest edition.

COMMENT EXPLANATIONS:

2. For Noise Only: Use only those types listed in appendix 18-A of OPNAVINST 5100.23G, or for where a valid waiver has been granted. Participate in the Hearing Conservation Program. As per OPNAVINST 5100.23G to include:

- a. The use of PPE.
- b. The labeling of noise hazardous non-combatant equipment.
- c. Annual training.
- d. Annual audiometric evaluation.

3. For Respirator Use Only: Participate in the Respiratory Protection Program. As per OPNAVINST 5100.23G to include:

- a. The use of PPE.
- b. Fit testing.
- c. Appropriate medical surveillance.
- d. Annual training.

1. Explanation of Medical Surveillance/Certification Recommendations. Recommendation for inclusion in a hazard-based medical surveillance program for employees involved in a given operation is based on the industrial hygienist's judgment, either through observation or knowledge of the process or representative sampling, that these employees will routinely be potentially exposed to workplace concentrations at or above 50% of applicable OSHA standards or action levels established by Navy instruction or Federal regulation. Medical certifications/examinations may be required by specific Navy or Federal directive for reasons other than exposure-based medical surveillance program entry. Such certifications/examinations, if noted above, are addressed in this table for informational purposes.

2. Additions/Deletions. Hearing Conservation Program surveillance Code 503 was added as a requirement. These are additions from the 2013 industrial hygiene survey.

**SUMMARY OF RECENT SAMPLING RESULTS
MCLB, LOGISTICS SUPPORT DIVISION (LSD)
ALBANY, GA
REPORT NUMBER: AL15020**

1. The GME Shops are located in Building 5400. Below is a summary of recent sample results conducted on shop personnel.

GME Personal Noise Sample Testing Results						
Date	Shop Name	Operation	Stressor	Exposure Limit	Measured TWA Exposure	Result
15 Jan 15	Motor Vehicle Maintenance and Repair	Vehicle Maintenance	Noise	85 dBA	83.9 dBA	Below the DoD OEL
15 Jan 15	Motor Vehicle Maintenance and Repair	Vehicle Maintenance	Noise	85 dBA	77.5 dBA	Below the DoD OEL
13 Jan 15	Motor Vehicle Maintenance and Repair	Vehicle Maintenance	Noise	85 dBA	79.6 dBA	Below the DoD OEL
20 Jan 15	Motor Vehicle Maintenance and Repair	Vehicle Maintenance	Noise	85 dBA	86.4 dBA	Above the DoD OEL
20 Jan 15	Motor Vehicle Maintenance and Repair	Vehicle Maintenance	Noise	85 dBA	77.6 dBA	Below the DoD OEL
20 Aug 15	Tire Repair	Tire Repair	Noise	85 dBA	91.6 dBA	Above the DoD OEL

2. Noise. The Navy has directed industrial hygiene program offices via BUMEDNOTE 6260, dated 26 May 2015, to follow the Department of Defense Hearing Conservation Program guidance provided in DoD Instruction 6055.12 of December 3, 2010. This does not change or readdress all HCP elements; however, it does change two major elements. First, the Occupational Exposure Limit (OEL)/Criterion Level will be 85 dBA as an 8-hour Time-Weighted Average (TWA) instead of what we referred to previously as the Navy OEL of 84 dBA. Single hearing protection is now required for tasks where the noise levels are at or greater than 85 dBA (previously 84 dBA). Double hearing protection is now required where noise levels are at or greater than 96 dBA (previously 104 dBA). Second, noise measurement and analysis has changed. A time-intensity exchange rate of 3 dB (decibels) will now be used instead of 4 dB. Hearing protection devices provided by the command must be capable of attenuating worker noise exposure below an 8-hour TWA of 85 dBA and 140 dB peak.

Based on personal noise dosimetry results, locations of work, and equipment used, there is the potential for noise levels to be above the Department of Defense Occupational Exposure Limit (OEL) while performing shop activities. Because of this, all shop personnel should be enrolled in

the Hearing Conservation Program until additional noise dosimetry is completed. All personnel should continue to wear appropriate hearing protection when performing noise hazardous operations or when in close proximity to noise hazardous operations or noise hazardous equipment.

Based on current noise dosimetry, the hearing protection devices currently in use are capable of attenuating worker noise exposure below the DoD OEL during normal operations.

3. The original sample results discussed in this attachment are on file in the Industrial Hygiene Department office. The workers have been notified of their sample results and the results have been recorded in their individual medical records. At this time there are no additional recommendations to be made.

**RE-EVALUATION SCHEDULE
MCLB, LOGISTICS SUPPORT DIVISION (LSD)
ALBANY, GA
REPORT NUMBER: AL15020**

This following table provides the shop hazard category and re-evaluation schedule for the work center.

Work Center	Hazard Category⁽¹⁾	Next Survey Due (Yr)
LSD Admin. Support Office	III (Low)	2018
Distribution Management Office	III (Low)	2018
Tool Room, General Storage, Hazmat Storage, & Cylinder Warehouse	II (Moderate)	2017
Garrison Property	II (Moderate)	2017
Armory and Ammo Warehouse	II (Moderate)	2017
GME (Motor Vehicle Maintenance and Repair)	II (Moderate)	2017
GME (Tire Repair)	II (Moderate)	2017
GME (Welding)	II (Moderate)	2017

⁽¹⁾ Hazard categories and corresponding survey frequencies are as follows:

- I – High hazard – surveyed annually
- II – Moderate hazard – surveyed every two years
- III – Low hazard – surveyed every four years

Hazard categories are based on a consideration of health risk of identified chemical stressors and potential of these stressors to exceed Navy occupational exposure limits, ACGIH Threshold Limit Values, or OSHA substance-specific standards. Hazard category determination protocol is spelled out in NAVHOSP Jacksonville *Industrial Hygiene Shop Hazard Categorization Policy*.

Industrial Hygiene has discretion to conduct surveys more often than the minimum frequencies listed above.