



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

IN REPLY REFER TO:
6200.2

Ser 06IHZZ/ 0798

JUN 13 2018

From: Commanding Officer, Naval Hospital Jacksonville
To: Director, Installation and Environment Division, Albany, GA

Subj: PERIODIC INDUSTRIAL HYGIENE SURVEY OF INSTALLATION AND ENVIRONMENT DIVISION

Ref: (a) OPNAVINST 5100.23G
(b) NAVMC DIR 5100.8

Encl: (1) Executive Summary
(2) Industrial Hygiene Survey Report (AL18014)

1. A periodic Industrial Hygiene Survey of the Installation and Environment Division was conducted 8-10 May 2018 as required by reference (a). Enclosures (1) and (2) are provided for your information.

2. Point of contact is Mr. Bryan Arwood, of the Naval Branch Health Clinic Albany Industrial Hygiene Division, at (229)-639-7846 or email bryan.s.arwood.civ@mail.mil.

T. R. WALKER
By direction

Copy to:
MCLB Risk Management Office, MCLB Albany

EXECUTIVE SUMMARY

A periodic industrial hygiene survey of the Installation and Environment Division (I & E) was conducted 8-10 May 2018 by Whitney Bishop, Industrial Hygienist, Naval Branch Health Clinic, Albany. The purpose of this survey was to identify health hazards present, assess actual health risk, and recommend controls where needed, as well as to assess your Occupational Health program status. No formal response to Industrial Hygiene is needed, although the Risk Management Office of Marine Corps Logistics Base (MCLB) Albany may specify recommendations made in this report as items for mandatory corrective action. Following is a summary of major findings and recommendations. Detailed findings, observations and recommendations are provided in enclosure (2) and its associated attachments.

Item: *Hazard Assessments.* Since the previous industrial hygiene (IH) survey in May 2017, the facility support contracting team (FSC) no longer falls under Public Works Operations group, the CRC shop no longer conducts TIG welding and stainless steel welding and is in the process of procuring a local exhaust ventilation system that will need to be evaluated once it is up and running. In addition, the Industrial water treatment plant (IWTP) is undergoing renovations to streamline the treatment process. This will need to be further re-evaluated once the project is finished. This survey consisted of a walk-through evaluation of the work areas, sampling as required and employee interviews, as appropriate, to assist in the industrial hygiene assessment.

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 operation 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 Ms. Whitney R. Bishop of the Naval Branch Health Clinic Albany Industrial Hygiene Division, at 229-639-7846 or whitney.r.bishop.civ@mail.mil.

**PERIODIC INDUSTRIAL HYGIENE SURVEY
INSTALLATION AND ENVIRONMENT DIVISION
MARINE CORPS LOGISTICS BASE ALBANY, GEORGIA
REPORT NUMBER: AL18014**

Ref: (a) OPNAVINST 5100.23G, *Navy Safety and Occupational Health Program Manual*
(b) NAVMC 5100.8, *Marine Corps Occupational Safety and Health (OSH) Program Manual*
(c) Navy and Marine Corps Public Health Center (NMCPHC) Industrial Hygiene Field Operations Manual (IHFOM)

Att: (1) Program Evaluation Summary
(2) Individual Hazard Assessment
(3) Medical Surveillance Summary
(4) Noise Survey and Hearing Protection Requirements and Personal Noise Sampling Results Summary
(5) Air Sampling Results Summary
(6) Respiratory Protection Summary
(7) Exposure Monitoring Plan
(8) Neutral Posture for Computer Use/Computer Breaks
(9) Customer Satisfaction Survey

1. Introduction. Per reference (a) and (b), a periodic industrial hygiene survey of the Installation and Environment Division (I & E) 8-10 May 2018 by Whitney Bishop, Industrial Hygienist, Naval Branch Health Clinic, Albany. This survey consisted of a walk-through evaluation of the work areas, a review of the operations and the hazards associated and employee interviews, as appropriate, to assist in the industrial hygiene assessment.

2. Report Contents. Reference (a) requires that each Navy workplace, or naval base supported DOD workplace, be thoroughly evaluated in order to accurately identify and quantify all potential health hazards. This report fulfills that requirement. An evaluation summary of Safety and Occupational Health (SOH) programs, control measures, and hazard evaluations is provided in attachment (1). The updated Individual Hazard Assessments for surveyed workcenter(s) are provided in attachment (2). Medical surveillance recommendations are provided in attachment (3). A list of the noise hazardous areas and operations and the required level of hearing protection is provided in attachment (4) along with a summary of personal noise sampling results. A summary of air sampling results is provided in attachment (5). The Respiratory Protection Summary, attachment (6), lists the operations requiring respirators and the type of respirators recommended. The Exposure Monitoring Plan, provided in attachment (7), details the operations/processes on which more information is required in the form of periodic sampling. Attachment (8), the Neutral Posture for Computer Use/Computer Breaks, can be used for training personnel in utilizing their computer workstations ergonomically. Attachment (9) is a Customer Satisfaction Survey, so that you may critique the services provided.

3. Design Reviews. Per reference (a), industrial hygienists should participate in the review of plans and specifications for local projects, standard operating procedures, purchasing

Enclosure (2)

transactions, and contracts which involve, or could create, exposure to potential health hazards, such as toxic materials, radiation, noise, or other health hazards. Cognizant facilities management and/or occupational health and safety personnel should ensure that the supporting industrial hygienist is made aware of such plans and specifications and that they are made available for his/her review.

4. Re-evaluation Schedule and Changes in the Workplace. Please retain this report on file and post a copy in a common work area for personnel to review. IH surveys had historically been accomplished with an established survey frequency based on the nature of operations at the Activity/Command in accordance with reference (a). Survey periodicity is now scheduled at the command or shop level in accordance with reference (c). Ratings and associated survey frequency are now listed on individual work center assessment(s) within this report and reflect as High (annual), Moderate (biennial), or Low (quadrennial) hazard category. Shop periodicity will be continually re-assessed during future IH surveys. The following table provides the shop hazard category and re-evaluation schedule for the division(s)/workcenter(s).

Work Center	Hazard Category ⁽¹⁾	Current Survey Date (Mon/Yr)	Next Survey Due (Mon/Yr)
Office of the Director	2 (Moderate)	May 2018	May 2020
Environmental Branch	3 (Low)	May 2018	May 2022
Environmental Branch-Compliance	1 (High)	May 2018	May 2019
Environmental Branch-Installation Restoration	2 (Moderate)	May 2018	May 2020
Environmental Branch-Natural Resources	2 (Moderate)	May 2018	May 2020
Environmental Branch-Pollution Prevention	1 (High)	May 2018	May 2019
Housing Branch	2 (Moderate)	May 2018	May 2020
Housing Branch-Transient Housing	2 (Moderate)	May 2018	May 2020
Public Works Branch	2 (Moderate)	May 2018	May 2020
PW-Facilities Support Contracting team (FSC)	2 (Moderate)	May 2018	May 2020
PW-NAVFAC-FEAD	2 (Moderate)	May 2018	May 2020
PW-FM Boiler	2 (Moderate)	May 2018	May 2020
PW-FM CRS	1 (High)	May 2018	May 2019
PW-FM High voltage electricity	2 (Moderate)	May 2018	May 2020
PW-FM HVAC/Utilities	2 (Moderate)	May 2018	May 2020
PW-FM IWTP	2 (Moderate)	May 2018	May 2020
PW-FM Maintenance	2 (Moderate)	May 2018	May 2020

(1) 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 reference (b), Chapter 2. Industrial Hygiene has discretion to conduct surveys more often than the minimum frequencies listed above.

Any significant changes in the type of operations currently performed, current workplace setting, new equipment acquired, or change in the kinds or amounts of chemical used, as identified in the

survey, will result in a need for an immediate re-evaluation of the affected area. Industrial Hygiene, Naval Hospital, Jacksonville should be notified in the event of any significant operational changes as described above so that a prompt re-evaluation can be completed.

**PERIODIC INDUSTRIAL HYGIENE SURVEY
PROGRAM EVALUATION SUMMARY
INSTALLATION AND ENVIRONMENTAL DIVISION
MARINE CORPS LOGISTICS BASE ALBANY, GA
REPORT NUMBER: AL18014
MAY 2018**

New or Significantly Modified Work Center Operations/Processes?

Comments:

- Since the previous industrial hygiene (IH) survey in May 2017, the facility support contracting team (FSC) no longer falls under Public Works Operations group, therefore it is separated out. The CRC shop no longer conducts TIG welding and stainless steel welding. Also the Industrial water treatment plant (IWTP) is undergoing renovations to streamline the treatment process. This will need to be further re-evaluated once the project is finished. All operations/process were identified for each of the workcenters and are provided in the Individual Hazard Assessments (attachment (2)).

Safety and Occupational Health (SOH) Program Findings and Recommendations

Ref: OPNAVINST 5100.23G

1. Medical Surveillance Program Status.

No Medical Surveillance is Recommended.

Medical Surveillance is Recommended.

Comments:

- The Medical Surveillance Program Summary, attachment (3) summarizes medical surveillance requirements.
- ESAMS data was reviewed on 14 May 2018 to identify compliance for required medical surveillance/certificates.

Work Center	Medical Surveillance/ Certificate	# of Personnel Assigned To Med Surv/Cert	# Personnel in Work Center Loaded in ESAMS	# Personnel Current in ESAMS	Comments
Environmental Branch- Compliance	Forklift operator/material handling equipment (710)	3 (Hazwaste workers)	3	3	100% compliant
Environmental Branch-Pollution Prevention	Forklift operator/material handling equipment (710)	4	4	4	100% compliant
Environmental Branch-Natural Resources	Forklift operator/material handling equipment (710)	2	2	2	100% compliant
Housing Branch- Transient Housing	Blood AND Body Fluids	7 (Housekeepers and Laundry personnel)	11	11	100% compliant
PW-FM CRS	Forklift operator/material handling equipment (710)	7	7	6	86% compliant
PW-FM High Voltage Electricity	Forklift operator/material handling equipment (710)	2	2	2	100% compliant
PW-FM HVAC/Utilities	Forklift operator/material handling equipment (710)	2	2	2	100% compliant
PW-FM Maintenance	Forklift operator/material handling equipment (710)	3	3	3	100% compliant

2. Hazardous Material Control and Management (HMC&M) Program (Chapter 7):

AUL Y N N/A Accurate Y N (where spot checked)
 SDS Files Y N N/A Accurate Y N (where spot checked)
 HAZMAT Training Required? Y N
 Other (lead, asbestos, etc.): Y N

Comments: Industrial Hygiene is required to evaluate all hazardous materials used at each of the locations and includes understanding what material is being used and how. Industrial Hygiene does this by reviewing all hazardous material on hand and evaluating the chemical hazards of each of the materials. Some additional requirements are explained below:

- Per OPNAVINST 5100.23G there is a requirement for an Authorized Use Lists (AUL) that should include all hazardous material authorized for use and should include the stock number, item name, the manufacturer name as they appear on the product label/safety data sheet and identify the process for each material listed. Industrial Hygiene understands that all commands that are located on MCLB Albany have an established AUL in Hazardous Material Management System (HMMS), however it does not allow for the option to associate a process at this time. Commands should be vigilant to keep their AUL up to date. It was found during this IH survey that several of the AULs did not have all of the materials listed on site.
- The second requirement per OPNAVINST 5100.23G and NAVMC Dir 5100.8 chapter 17 is a Hazardous Material Inventory (HMI) that should include at a minimum the identity and quantity (by building) of hazardous material present at a facility. This second requirement requires action. Supervisors should create an inventory of hazardous material on hand. It is recommended to have an inventory for each chemical locker.
- The third requirement per OPNAVINST 5100.23G is that the hazardous material is uniquely identified for reference, retrieval and cross referenced between the label, SDS, AUL, and inventory. This requirement also requires action.
- **As a reminder:** All MSDSs should be updated to reflect the most current Safety Data Sheet (SDS). (NOTE: Per OSHA, MSDSs must be replaced with current SDSs by June 2016). Replace SDSs with the most current SDS, from either the HMMS system or via the manufacturers' website. Albany HAZMAT Cell's Hazardous Material Management System (HMMS) POC, Ms. Tscharna Dameron (229-639-5810), is aware of the outdated SDSs in the HMMS. She can assist these departments in obtaining updated SDSs for the HAZCOM binders.
- Ensure HAZCOM training is conducted on an annual basis and as new hazards are introduced for all work centers. Training should include training on specific hazards and OSHA's new Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

3. Respiratory Protection Program (Chapter 15):

Are respirators used to control workplace exposures? Y N Voluntary Use
 Are they effective? Y N N/A
 Is the Respiratory Protection Program satisfactory? Y N Marginal N/A
 ESAMS agrees with medical surveillance recommendations? Y N N/A

Comments:

- Stacey Williams at MCLB Albany Safety Department is the overall respiratory protection program manager (RPPM).
- Personnel in the Environmental Branch and CRS are required to be enrolled in the Respiratory Protection Program for various activities. Personnel at the housing branch wear NIOSH approved N-95 respirators on a voluntary basis when cleaning for dust hazards.
- For more information see the Respiratory Protection Program Summary, Attachment (7).
- ESAMS data was reviewed on 14 May 2018 to identify compliance for required medical surveillance/certificates.

Work Center	# of Personnel Assigned To Med Surv/Cert	# Personnel in Work Center Loaded in ESAMS	# Personnel Current in ESAMS	Comments
Environmental Branch	6	6	5	83% compliant
PW-FM CRS	1	1	1	100% compliant

4. Noise and Hearing Conservation Program (HCP) (Chapter 18):

- Are personnel recommended for the HCP? Y N
 Are personnel receiving audiograms? Y N Not All N/A
 Is hearing protection readily available? Y N N/A
 Is hearing protection used? Y N N/A Not observed
 Are hearing protection devices adequate? Y N N/A
 ESAMS agrees with medical surveillance recommendations? Y N N/A

Comments:

- Various 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 and should continue participation in the command's 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.
- Hearing protection devices used are listed in attachment (4) and are capable of attenuating worker noise exposure below the OEL unless otherwise stated. Hearing protection devices with an NRR of 29 or better are needed to reduce noise exposure below the OEL.
- A list of noise hazardous equipment and operations is listed in Attachment (4).
- ESAMS data was reviewed on 14 May 2018 to identify compliance for the Hearing Conservation Program (HCP) audiograms on the shops visited this year:

Work Center	# of Personnel Assigned To Med Surv/Cert	# Personnel in Work Center Loaded in ESAMS	# Personnel Current in ESAMS	Comments
Environmental Branch-Natural Resources	0 (Game Warden)	0	0	100% compliant
Public Works Branch	2 (Marines)	2	2	100% compliant
PW-FM Boiler	5	5	5	100% compliant
PW-FM CRS	9	8	8	89% compliant
PW-FM HVAC/Utilities	4	4	4	100% compliant
PW-FM Maintenance	5	4	4	80% compliant

5. Personal Protective Equipment (PPE) (Chapter 20). No changes

- Is PPE required for the job? Y N
 Is PPE provided? Y N Not All N/A

Comments:

- Personnel are provided personal protective equipment for the various operations performed.

6. Lead Control Program (Chapter 21).

- Is lead used in the workplace? Y N
 Is exposure to lead in excess of the action level (AL)? Y N N/A

Comments:

- Personnel from the Environmental Branch clean the 100 meter range bullet trap inside the Maintenance Center Albany area at building 2227, known for lead contamination. Wet method is utilized to reduce dust resuspension along with inhalation protection via a respirator. It is recommended that the command look into moving or installing a water facet on the outside of the building so that personnel do not have to expose themselves to lead dust.

7. Ergonomics (Chapter 23):

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

Comments:

- Main offices are typically equipped with cubicle or executive styled desks, most without keyboard trays. In general, the desks had hard edges and keyboards and mice were placed on the desktop. Personnel had no complaints about the office areas and office space set ups.
- Personnel from various shops have various ergonomic hazards associated with shop work to include heavy lifting and static postures. No injuries were reported. However, it is recommended that refresher training be provided on how to perform these activities with minimal stress to the body.
- Refresher training for ergonomics is specified as "at command discretion" by OPNAVINST 5100.23G, Chapter 23 article 2308a.

Attachment (8) illustrates the optimum computer station setup and placement of the screen, hands, wrists, etc.

8. Management of Reproductive hazards (Chapter 29):

Reproductive Hazards Present? Y N

Comments: Reproductive hazards listed in OPNAVINST 6000.1C or NMCPHC-TM-OEM 6260.01C have been identified in this workcenter. It is recommended that, wherever possible, the workcenter reduce, minimize, and/or eliminate the reproductive hazards and personnel exposure. Reproductive hazards are specifically identified for all operations addressed in attachment (2) and is summarized below:

Work Center	Operation/process	Reproductive hazard
Office of the Director	Site/Safety visits	Noise
Environmental Branch-Compliance	Hazardous waste disposal	Noise, heavy lifting
	Site visits	Noise
	Pre clean small arms shooting range for CRS	Noise, lead and high heat
	Emergency Response	Noise and high heat
	Material movement (Forklift operations)	Carbon monoxide
Environmental Branch-Installation Restoration	Site visits	Noise
Environmental Branch-Natural Resources	Controlled burns	Noise, carbon monoxide and gasoline
	Material movement	Noise and carbon monoxide
	Weapons Qualifications	Noise
	Various shop operations	High heat
Environmental Branch-Pollution Prevention	Recycling	Noise, heavy lifting and high heat
	Water samples	Noise
	Pre clean small arms shooting range for CRS	Noise, lead and high heat
	Emergency Response	Noise and high heat
	Material movement (Forklift operations)	Carbon monoxide
	HAZMAT management	Toluene and xylene
Housing Branch	Site visits	Noise
Housing Branch-Transient Housing	Housekeeping and laundry	Noise and high heat
Public Works Branch	Engineering-Site visits-Engineers, Engineering-Site visits-Technicians	Noise and high heat
	Operations-Help desk site visits	Noise
	Operations-Supply	High heat
	Weapons Qualification and cleaning	Noise and lead
Facilities Support Contracting team (FSC)	Site visits	Noise
PW-NAVFAC-FEAD	Site visits-Manager, Site visits-Technicians and Site visits-Contracting Officer	Noise and high heat
PW-FM Boiler	Boiler checks	Noise
	Water testing	Potassium iodide
	Adjusting water chemistry	Heavy lifting
PW-FM CRS	Various shop operations	Noise, heavy lifting and heat stress
	Electrical work	Toluene
	Maintenance-Small arms shooting range	Lead
	Maintenance calls-Non routine calls	Xylene, toluene, lead and cadmium
	Material movement (Forklift operations)	Carbon monoxide
PW-FM High Voltage Electricity	Electrical work	Noise and high heat
PW-FM HVAC/Utilities	HVAC repair and maintenance and Water distribution maintenance	Noise, high heat and heavy lifting
	Material movement (Forklift operations)	Carbon monoxide
PW-FM IWTP	Waste water treatment	Noise, high heat and heavy lifting
PW-FM Maintenance	Preventative maintenance work, Road & grounds work and making keys	Noise
	Road & grounds tractor operations	Noise, Carbon monoxide and heat stress

9. Management of Carcinogenic hazards:

Cancer Causing Hazards Present? Y N

Comments: Carcinogens have been identified in this workcenter. It is recommended that, wherever possible, the workcenter reduce, minimize, and/or eliminate carcinogens and personnel exposure. Cancer causing hazards are specifically identified for all operations addressed in attachment (2) and are summarized below:

Work Center	Operation/process	Carcinogen
Environmental Branch-Compliance	Asbestos work	Asbestos
	Material movement (Forklift operations)	Diesel exhaust
	Pre clean small arms shooting range for CRS	Lead
Environmental Branch-Natural Resources	Various shop operations	UV radiation
Environmental Branch-Pollution Prevention	Asbestos work	Asbestos
	Material movement (Forklift operations)	Diesel exhaust
	Pre clean small arms shooting range for CRS	Lead
Public Works Branch	Weapons Qualification and cleaning	Lead
PW-FM CRS	Maintenance-Small arms shooting range	Lead
	Maintenance calls-applying lubricants	Methylene chloride
	Maintenance calls-applying sealants	Crystalline silica
	Maintenance-Painting-aerosol cans	Carbon black
	Maintenance calls-Painting-brush painting	Carbon black and crystalline silica
	Maintenance-Welding	Cadmium and UV radiation
	Various shop operations	UV radiation
Maintenance calls-Non routine calls	Hexavalent chromium, cadmium crystalline silica	
PW-FM High Voltage Electricity	Electrical work	UV Radiation
PW-FM HVAC/Utilities	HVAC repair and maintenance and Water distribution maintenance	UV Radiation
PW-FM IWTP	Waste water treatment	UV Radiation
PW-FM Maintenance	Road & grounds tractor operations	UV Radiation

10. Other Applicable Programs:

- Asbestos Control (Chapter 17)
- Non-ionizing radiation (Chapter 22)
- Ventilation
- PCBs (Chapter 25)
- Bloodborne Pathogens (Chapter 28)
- Other

Comments:

- Personnel from the Environmental Branch are qualified to pull asbestos samples. This is very minimal.
- Personnel from the Housing Branch can be exposed to bloodborne pathogens (body fluids) when performing housekeeping and laundry operations.
- PW-FM CRS has procured a local exhaust ventilation system, however at the time of the survey they were still waiting on parts for it to be fully operational. Industrial Hygiene should be notified once this is operational in order to perform a ventilation survey.

11. Exposure Monitoring Plan (EMP):

- Exposure Monitoring needs were identified.
- No Exposure Monitoring needs were identified.

Comments:

- Attachment (8) provides the current Exposure Monitoring Plan.

Additional Comments: None.

**FTABLE OF CONTENTS
INDUSTRIAL HYGIENE SURVEY
WORKCENTER SPECIFIC EVALUATIONS FOR
INSTALLATION AND ENVIRONMENT DIVISION
MARINE CORPS LOGISTICS BASE ALBANY GA**

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INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Office of the Director SHOP HAZARD PRIORITY RATING: 2		POC: Thomas Mullen (Safety rep) PHONE: 639-8411 TOTAL PERSONNEL: 7 (Civ: 7) MALE: 5 FEMALE: 2		
SHOP OPERATIONS: The Installations and Environmental Division (I & E Division) provides quality facilities and a full range of timely support and services to support the mission of MCLB Albany, tenant activities and other customers. This shop includes the Director, Deputy Director and assistant, Energy Manager, Program analyst, Financial analyst, Financial tech and the Safety and Occupational Health Specialist. Duties are primarily administrative in nature.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Site/Safety visits: Noise* The safety and occupational health specialist will go out and check on personnel. This can include going into areas with hazardous noise.	1	1-2x/week 1 hour	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.	ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. Personnel should wear the required PPE in the areas visiting. Be cautious of the noise levels. If you have to raise your voice, it is a good indication hearing protection is required. <i>*Noise is a recognized developmental reproductive hazard.</i>
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	All	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				

INDIVIDUAL HAZARD ASSESSMENT			DATE:	8 May 2018
RECORDED BY:	Whitney Bishop		POC:	Thomas Mullen (Safety rep)
COMMAND:	MCLB Installation and Environment Division		PHONE:	639-8411
BLDG:	5501		TOTAL PERSONNEL:	7 (Civ: 7)
SHOP:	Office of the Director		MALE:	5
SHOP HAZARD PRIORITY RATING:	2		FEMALE:	2
SHOP OPERATIONS: The Installations and Environmental Division (I & E Division) provides quality facilities and a full range of timely support and services to support the mission of MCLB Albany, tenant activities and other customers. This shop includes the Director, Deputy Director and assistant, Energy Manager, Program analyst, Financial analyst, Financial tech and the Safety and Occupational Health Specialist. Duties are primarily administrative in nature.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes:</p> <p>ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL).</p> <p>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.</p> <p>UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL.</p> <p>WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress.</p> <p>SKIN – The material poses a skin absorption hazard.</p> <p>REPRO HAZARD – The material is a Navy-recognized reproductive hazard.</p> <p>CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.</p>				

INDIVIDUAL HAZARD ASSESSMENT			DATE:	8 May 2018
RECORDED BY: Whitney Bishop	COMMAND: MCLB Installation and Environment Division		POC:	Branch Head Mr. Wallace
BLDG: 5501	SHOP: Environmental Branch		PHONE:	639-8616
SHOP HAZARD PRIORITY RATING: 3			TOTAL PERSONNEL:	1 (Civ: 1)
			MALE:	1
			FEMALE:	0
SHOP OPERATIONS: The environmental branch provides oversight and coordination of environmental compliance to ensure compliance with applicable pollution control and environmental laws, federal regulations, DoD and State and local government directives and laws. This branch consists of four sections: Compliance, Installation Restoration, Natural Resources and Pollution Prevention. Each Environmental Branch section has its own Individual Hazard Assessment (IHA) that captures that sections unique operations and exposure assessments.)				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	1	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES:				
ADM – Administrative Controls		PPE – Personal Protective Equipment		ISO – Isolation
DV – Dilution Ventilation		ENG – Engineering Controls		LV – Local Ventilation
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Compliance SHOP HAZARD PRIORITY RATING: 1		POC: Mr. Reimer PHONE: 639-8199 TOTAL PERSONNEL: 3 (Civ: 3) MALE: 3 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Compliance section is responsible for oversight of the bases environmental compliance programs. Main responsibilities include HAZWASTE disposal, title 5 permits and training. Personnel also make up the emergency response team and the section head cleans the small arms shooting range and conducts asbestos sampling as needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Various shop operations: Noise* 1. Hazardous waste disposal: Personnel in the compliance section use the oil filter crusher and aerosol paint can crusher in the recycling center. 2. Site visits: The hazardous waste manager performs monthly inspections of all waste collection sites. This can include going into industrial areas. 3. Pre clean small arms shooting range for CRS: Personnel clean the 100 meter range bullet trap inside the Maintenance Center Albany area at building 2227 when CRS personnel need to enter to perform maintenance. 4. Emergency Response: When personnel respond to environmental spill/disasters there may be a potential to have exposure to hazardous noise.	1. 3 2. 1 3. 1 4. 3	1. Oil filter crusher: 1x/quarter 1 hour Paint can crusher: 1x/week 10 minutes 2. 2-3 days/month 1-2 hours Total 24 hours/month 3. As needed 1-2 hours 4. As needed 30 minutes-several hours	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA. ADM: Proper lifting procedures.	ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. See attachment (4) for sound level measurement results. Personnel should wear the required PPE in the areas visiting. Be cautious of the noise levels. If you have to raise your voice, it is a good indication hearing protection is required. <i>*Noise is a recognized developmental reproductive hazard.</i>
Hazardous waste disposal: Various chemicals (i.e. petroleum distillates) and heavy lifting* Personnel are responsible for processing all hazardous waste from the base to include the maintenance depot area. This will include performing spot checks of the drums (various chemicals to include petroleum distillates). Personnel may also use Ecosure aerosol spray paint to mark containers (37038 flat black- acetone and butyl acetate, 11136 gloss red- butyl acetate). This operation performed in short duration.	3	Daily Up to 4 hours	PPE: Disposable nitrile gloves and safety glasses. ADM: Proper lifting procedures.	ACCEPTABLE of various chemicals and carbon monoxide: No significant exposures to petroleum distillates or carbon monoxide expected based on the nature of exposure as described as well as small duration and amounts exposed to. WMSD RISK FACTORS: No problems reported. There is the potential for ergonomic injuries to occur; training is recommended. Continue to provide regular awareness training on the proper movement and placement of heavy components and parts. Any ergonomic-related injury should be reported to the command safety officer. <i>*Heavy lifting is a developmental reproductive hazard.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Compliance SHOP HAZARD PRIORITY RATING: 1		POC: Mr. Reimer PHONE: 639-8199 TOTAL PERSONNEL: 3 (Civ: 3) MALE: 3 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Compliance section is responsible for oversight of the bases environmental compliance programs. Main responsibilities include HAZWASTE disposal, title 5 permits and training. Personnel also make up the emergency response team and the section head cleans the small arms shooting range and conducts asbestos sampling as needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Asbestos work: Asbestos* Personnel are qualified to perform various aspects of asbestos work to include pulling bulk samples and acting as Asbestos Project Supervisor. Asbestos removal is now all contracted out.	1 Project Supervisor	As needed	PPE: Disposable nitrile gloves and safety glasses as needed. ADM: Wet method as needed.	ACCEPTABLE: No significant exposure expected based on the nature of exposure as described. Note: Past asbestos team members (including the one mentioned here) continue to receive Asbestos Past Worker (115/116) medical surveillance. <i>*Asbestos is a recognized carcinogen.</i>
Pre clean small arms shooting range for CRS: Lead dust* and heat stress* Personnel are required to clean the area before CRS personnel can enter the area to perform maintenance. This includes entering the bullet trap building and hosing down the area to minimize the lead dust.	1	As needed for CRS	PPE: Tyvek body suite, disposable nitrile gloves and a full face respirator with a P100 filter. ADM: Wet method and hand washing. ADM: Work/rest cycles based on the flag condition.	UNCERTAIN for lead: Personnel must enter the room to get to the hose in order to wet the area down. Therefore they are unnecessarily exposing themselves to lead dust. It is recommended that the command look into moving or installing a water facet on the outside of the room so that personnel do not have to expose themselves to lead dust. Personnel should also be cognizant to properly remove PPE and wash hands after working in the area to reduce any spread of lead dust and the potential for ingestion. ACCEPTABLE for heat: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition. Currently, personnel are wearing a full face respirator with a P100/OV combo cartridge that should be discarded after each use. Personnel should be placed in a medical surveillance program for respirator use (716). <i>*Lead and high heat are reproductive hazards.</i> <i>*Lead is a recognized carcinogen.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Compliance SHOP HAZARD PRIORITY RATING: 1		POC: Mr. Reimer PHONE: 639-8199 TOTAL PERSONNEL: 3 (Civ: 3) MALE: 3 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Compliance section is responsible for oversight of the bases environmental compliance programs. Main responsibilities include HAZWASTE disposal, title 5 permits and training. Personnel also make up the emergency response team and the section head cleans the small arms shooting range and conducts asbestos sampling as needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Emergency Response: Various chemicals (i.e. petroleum distillates) and heat stress* Personnel from each section form an emergency response team in the event of environmental spills/disasters. This can include anything from storage tank spills to a vehicle leaking fuel.	3	As needed 30 minutes-several hours	PPE: Level A/B/C's (Can include the use of a full face respirator). ADM: Work/rest cycles based on the flag condition.	UNCERTAIN for various chemicals: Specific exposure assessments for emergency response can only be completed on a case-by-case basis. However, generally anticipate low toxicity & limited frequency/duration of exposure. ACCEPTABLE for heat: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition. Personnel should be placed in a medical surveillance program for respirator use (716). Personnel are issued a Scott full face respirator mask only. These are compatible with the SCBA equipment maintained by the fire department. For situations when the mask is used with the P100/OV combo cartridge, the combo cartridge should be discarded after each use. <i>* High heat is a reproductive hazard.</i>
Material movement (Forklift operations): Carbon monoxide*and diesel exhaust* Personnel operate (diesel) forklifts to move drums of hazardous waste. The diesel forklifts are used in and out of the shop warehouse.	3	Weekly 30 minutes	ADM: Shop and warehouse doors remain open.	ACCEPTABLE. No significant exposure expected based on the nature of exposure as described. Medical certification for Forklift Operators (710) is required. <i>*Carbon monoxide is a developmental reproductive hazard.</i> <i>*Diesel exhaust is a possible carcinogen.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Compliance SHOP HAZARD PRIORITY RATING: 1		POC: Mr. Reimer PHONE: 639-8199 TOTAL PERSONNEL: 3 (Civ: 3) MALE: 3 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Compliance section is responsible for oversight of the bases environmental compliance programs. Main responsibilities include HAZWASTE disposal, title 5 permits and training. Personnel also make up the emergency response team and the section head cleans the small arms shooting range and conducts asbestos sampling as needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	Any	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop	COMMAND: MCLB Installation and Environment Division	BLDG: 5501	SHOP: Environmental Branch-Installation Restoration	
SHOP HAZARD PRIORITY RATING: 2		POC: Mr. Wallace	PHONE: 639-7868	
		TOTAL PERSONNEL: 0 (Civ: 0)	MALE: 0	
		FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Installation Restoration Section is responsible for oversight of the bases closed landfills, burial sites, groundwater contamination sites and the superfund site. This can include site inspections.				
Note at the time of survey this position was vacant and operations are being conducted by the Branch Manager (Mr. Wallace).				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Site visits: Noise* Personnel perform various site visits to perform a visual inspection following a prescribed checklist. This can include going into industrial areas where hazardous noise is a concern.	1	1x/week 1 hour	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.	ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. Personnel should wear the required PPE in the areas visiting. Be cautious of the noise levels. If you have to raise your voice, it is a good indication hearing protection is required. <i>*Noise is a recognized developmental reproductive hazard.</i>
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	1	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Natural Resources SHOP HAZARD PRIORITY RATING: 2		POC: Ms. Robbins PHONE: 639-9946 TOTAL PERSONNEL: 2 (Civ: 2) MALE: 1 FEMALE: 1		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Natural Resources section is responsible for oversight of the bases natural resources including law enforcement, animal control, maintaining a nature center and conducting controlled burns on site. Note at the time of survey there was no Game warden on staff.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Various shop operations: Noise* 1. Controlled burns and material movement: Personnel use various tools to include chain saws, power tools, tractors and ATVs. 2. Weapons Qualifications: The game warden carries a weapon and qualifies annually.	1. 2 2. 0	1. Varies-Job dependent could be up to 4 hours 2. 2x/year 1-2 hours	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.	1. ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. 2. UNACCEPTABLE for weapons qualifications: All personnel who fire weapons, even for just qualification, are recommended for inclusion in the Hearing Conservation Program and its associated medical surveillance. Medical surveillance for Noise (503) is required. (Game Warden only due to weapons qualification.) <i>*Noise is a recognized developmental reproductive hazard.</i>
Controlled burns: Carbon monoxide*, burns and gasoline* Personnel conduct controlled burns on base. This usually occurs January-June Personnel work outdoors a majority of the day. Personnel use a combination of four gallons diesel and one gallon mogas. This is obtained at the gas station and filled into containers.	2	As permitted by weather 4-5 hours at a time	PPE: Fire suits (Pants, shirts and boots). ADM: Direction of wind. ADM: Work/rest cycles and hydration. ADM: Performed outdoors.	ACCEPTABLE: Based on the process description there should be no significant exposures. <i>*Carbon monoxide and gasoline are reproductive hazards.</i>
Tree marking: Methanol Personnel use Nelson Paint tree marking paint 3242 Blue and 3143 LF orange (methanol) to mark trees.	2	3x/year 3 days 3 hours	PPE: Disposable nitrile gloves as needed. ADM: Performed outdoors.	ACCEPTABLE: Based on handling procedures and limited duration of exposure.

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Natural Resources SHOP HAZARD PRIORITY RATING: 2		POC: Ms. Robbins PHONE: 639-9946 TOTAL PERSONNEL: 2 (Civ: 2) MALE: 1 FEMALE: 1		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Natural Resources section is responsible for oversight of the bases natural resources including law enforcement, animal control, maintaining a nature center and conducting controlled burns on site. Note at the time of survey there was no Game warden on staff.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Working with animals: Various animal hazards to include diseases (Lyme disease, rabies, etc.) insect bites and animal bites Personnel are trained to catch and remove animals on base, take blood samples from animals and performing any other duties dealing with live/dead animals. Usually does not include exposure to any feces; however, appropriate PPE must be obtained if needed.	2	As needed Less than 1 hour at a time	PPE: Disposable gloves or leather gloves as needed.	ACCEPTABLE: Based on the process description there should be no significant exposures. Personnel should be placed in medical surveillance for Animal Associated Disease (207).
Herbicide application: Potassium salt of glyphosate Personnel are qualified to use Roundup herbicide. Personnel will dilute the herbicide in either a backpack sprayer or a pump sprayer behind an ATV.	1	Weekly (During growing season) 30 minutes	PPE: Elbow length butyl rubber gloves, goggles and apron. ADM: Performed outdoors in open air.	ACCEPTABLE: Based on the process description there should be no significant exposures. At the time of survey no application was occurring pending licensing. Operations may be expanded (Duration/frequency), however it is anticipated that only Round up will be used. Therefore, additional evaluation may be warranted. Contact the Industrial Hygiene Department if frequency of operations changes.
Equipment maintenance: Petroleum distillates Personnel maintain chain saws which includes the use of Spectrum Lubricant 30wt red bar and chain oil (petroleum distillates), Poulan weed eater synthetic 2-cycle engine oil (petroleum distillates) and PB blaster (petroleum distillates 64742-65-0). Personnel also use bleach mixed with water to clean traps, cooler and when processing samples.	2	Weekly 3 hours	PPE: Disposable nitrile gloves and safety glasses.	ACCEPTABLE: Based on the process description there should be no significant exposures.

INDIVIDUAL HAZARD ASSESSMENT		DATE:	8 May 2018	
RECORDED BY:	Whitney Bishop	POC:	Ms. Robbins	
COMMAND:	MCLB Installation and Environment Division	PHONE:	639-9946	
BLDG:	5501	TOTAL PERSONNEL:	2 (Civ: 2)	
SHOP:	Environmental Branch-Natural Resources	MALE:	1	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	1	
<p>SHOP OPERATIONS: This shop is part of the Environmental Branch. The Natural Resources section is responsible for oversight of the bases natural resources including law enforcement, animal control, maintaining a nature center and conducting controlled burns on site.</p> <p>Note at the time of survey there was no Game warden on staff.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Material movement: Carbon monoxide*</p> <p>Personnel use various types of material handling equipment that include tractors, hoes, ATVs and forklifts.</p>	2	2-3x/week 2 hours	<p>ADM: Performed outdoors in open air.</p> <p>ENG: Enclosed cabs.</p>	<p>ACCEPTABLE: No significant exposure expected based on the nature of exposure as described.</p> <p>Medical surveillance for Forklift Operator/Material Handling Equipment (710) is required.</p> <p><i>*Carbon monoxide is a developmental reproductive hazard.</i></p>
<p>All shop operations: Heat stress* and UV radiation*</p> <p>Personnel spend 50-80% of the time outside or in spaces without air condition.</p>	2	2-3 days/week Up to 8 hours	<p>PPE: Sunscreen (>30 SPF), UV protective sunglasses.</p> <p>ADM: Work/rest cycles based on the flag condition.</p>	<p>ACCEPTABLE: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition.</p> <p>Personnel should be provided PPE to protect against UV radiation including sunglasses. Personnel exposed to UV radiation may develop pinguecula or pterygium (growths on the eye's cornea). Personnel exposed to UV radiation are more likely to develop skin cancer. Personnel should be encouraged to hydrate while working outside. Personnel are encouraged to seek shelter in the air conditioned areas routinely throughout the day especially during the high heat season.</p> <p><i>*High heat is considered a reproductive hazard.</i></p> <p><i>* UV radiation is a recognized carcinogen.</i></p>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Natural Resources SHOP HAZARD PRIORITY RATING: 2		POC: Ms. Robbins PHONE: 639-9946 TOTAL PERSONNEL: 2 (Civ: 2) MALE: 1 FEMALE: 1		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Natural Resources section is responsible for oversight of the bases natural resources including law enforcement, animal control, maintaining a nature center and conducting controlled burns on site. Note at the time of survey there was no Game warden on staff.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	2	2-3 days/week Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE:	8 May 2018	
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Pollution Prevention SHOP HAZARD PRIORITY RATING: 1		POC: Mr. Metts PHONE: 639-8934 TOTAL PERSONNEL: 6 (Civ: 6) MALE: 6 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Pollution Prevention section is responsible for tracking all HAZMAT on base, the drinking water program, storage tanks, asbestos program and runs the base recycling program. Personnel also make up the emergency response team and the section head cleans the small arms shooting range and conducts asbestos sampling.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Various shop operations: Noise* 1. Recycling: Personnel use various machines to include cardboard baler, aluminum can crusher, and a new brass deformer. 2. Water samples: Personnel may have to go into well houses where there is noise. 3. Pre clean small arms shooting range for CRS: Personnel may be asked to clean the 100 meter range bullet trap inside the Maintenance Center Albany area at building 2227. 4. Emergency Response: When personnel respond to environmental spill/disasters there may be a potential to have exposure to hazardous noise.	1. 3 2. 2 3. 1 4. 2	1. Daily Up to 3 hours 2. Quarterly 3 wells 30-45 minutes each 3. As needed 1-2 hours 4. As needed 30 minutes-several hours	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.	1. UNCERTAIN. Based on the new BUMED note and requirements for enrollment into the Hearing Conservation Program. Sampling is recommended. 2-4. ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. See attachment (4) for sound level measurement and noise dosimetry results. Personnel should wear the required PPE in the areas visiting. Be cautious of the noise levels. If you have to raise your voice, it is a good indication hearing protection is required. <i>*Noise is a recognized developmental reproductive hazard.</i>
HAZMAT management: Petroleum distillates, toluene*, xylene*, propane, butane, methyl propane, methanol and ethyl benzene Personnel are responsible for tracking all HAZMAT on base from cradle to grave. This primarily includes administrative work but also includes inspections of HAZMAT lockers.	1	Over 90 zones About 40 hours a month	PPE: Safety glasses and disposable nitrile gloves as needed.	ACCEPTABLE: Based on the process description there should be no significant exposures. <i>*Toluene and xylene are reproductive health hazards.</i>
Material movement (Forklift operations): Carbon monoxide*and diesel exhaust* Personnel operate (diesel) forklifts to move parts and items. The diesel forklifts are used in and out of the shop warehouse.	4	As needed throughout the day.	ADM: Shop and warehouse doors remain open.	ACCEPTABLE. No significant exposure expected based on the nature of exposure as described. Medical certification for Forklift Operators (710) is required. <i>*Carbon monoxide is a developmental reproductive hazard.</i> <i>*Diesel exhaust is a possible carcinogen.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Pollution Prevention SHOP HAZARD PRIORITY RATING: 1		POC: Mr. Metts PHONE: 639-8934 TOTAL PERSONNEL: 6 (Civ: 6) MALE: 6 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Pollution Prevention section is responsible for tracking all HAZMAT on base, the drinking water program, storage tanks, asbestos program and runs the base recycling program. Personnel also make up the emergency response team and the section head cleans the small arms shooting range and conducts asbestos sampling.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Storage tank inspections: Eye and foot hazards Personnel are responsible for all above ground and underground storage tanks on base. This duty includes performing monthly inspections and releasing water from tanks after a rainfall. . There are 30 above ground tanks and 2 underground tanks.	2	Monthly 5-10 minutes per tank	PPE: Safety glasses and steel toed boots. Disposable nitrile gloves as needed.	ACCEPTABLE: Based on the process description there should be no significant exposures.
Water samples: Eye and foot hazards 1. Drinking water samples: Personnel are responsible for the drinking water program on base. This is primarily administrative work; however they also pull quarterly samples for analysis (shipped out to a lab). 2. Storm water samples: Personnel are responsible for pulling samples from storm water point sources after about a half inch of rain fall to perform a visibility and odor test. There are 24 locations on base.	2	1. Quarterly 3 wells 30-45 minutes each 2. As needed after rain fall	PPE: Safety glasses and Steel toed boots. Disposable nitrile gloves as needed.	ACCEPTABLE: Based on the process description there should be no significant exposures.
Recycling: Sharp objects (cuts), heat stress* and heavy lifting* Personnel go out to collect recycling from various pick up sites on base and bring it back to the collection point. Personnel then sort and condense as needed. Personnel also use 404 big red alkaline w/b cleaner (glycol ethers) to clean the floors.	3	Daily Up to 8 hours	PPE: Disposable nitrile gloves leather gloves or mechanics gloves and safety glasses. ADM: Work/rest cycles based on the flag condition. ADM: Proper lifting procedures.	ACCEPTABLE for heat stress: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition. WMSD RISK FACTORS: No problems reported. There is the potential for ergonomic injuries to occur; training is recommended. Continue to provide regular awareness training on the proper movement and placement of heavy components and parts. Any ergonomic-related injury should be reported to the command safety officer. <i>*Heavy lifting and high heat are reproductive hazards.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Pollution Prevention SHOP HAZARD PRIORITY RATING: 1		POC: Mr. Metts PHONE: 639-8934 TOTAL PERSONNEL: 6 (Civ: 6) MALE: 6 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Pollution Prevention section is responsible for tracking all HAZMAT on base, the drinking water program, storage tanks, asbestos program and runs the base recycling program. Personnel also make up the emergency response team and the section head cleans the small arms shooting range and conducts asbestos sampling.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Asbestos work: Asbestos* Personnel are qualified to perform various aspects of asbestos work to include pulling bulk samples and acting as Asbestos Project Supervisor. Asbestos removal is now all contracted out.	1 Project Supervisor	As needed	PPE: Disposable nitrile gloves and safety glasses as needed. ADM: Wet method as needed.	ACCEPTABLE: No significant exposure expected based on the nature of exposure as described. Note: Past asbestos team members (including the one mentioned here) continue to receive Asbestos Past Worker (115/116) medical surveillance. <i>*Asbestos is a recognized carcinogen.</i>
Pre clean small arms shooting range for CRS: Lead dust* and heat stress* Personnel are required to clean the area before CRS personnel can enter the area to perform maintenance. This includes entering the bullet trap building and hosing down the area to minimize the lead dust.	1	As needed for CRS	PPE: Tyvek body suite, disposable nitrile gloves and a full face respirator with a P100 filter. ADM: Wet method and hand washing. ADM: Work/rest cycles based on the flag condition.	UNCERTAIN for lead: Personnel must enter the room to get to the hose in order to wet the area down. Therefore they are unnecessarily exposing themselves to lead dust. It is recommended that the command look into moving or installing a water facet on the outside of the room so that personnel do not have to expose themselves to lead dust. Personnel should also be cognizant to properly remove PPE and wash hands after working in the area to reduce any spread of lead dust and the potential for ingestion. ACCEPTABLE for heat: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition. Currently, personnel are wearing a full face respirator with a P100/OV combo cartridge that should be discarded after each use. Personnel should be placed in a medical surveillance program for respirator use (716). <i>*Lead and high heat are reproductive hazards.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE:	8 May 2018	
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Pollution Prevention SHOP HAZARD PRIORITY RATING: 1		POC: Mr. Metts PHONE: 639-8934 TOTAL PERSONNEL: 6 (Civ: 6) MALE: 6 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Pollution Prevention section is responsible for tracking all HAZMAT on base, the drinking water program, storage tanks, asbestos program and runs the base recycling program. Personnel also make up the emergency response team and the section head cleans the small arms shooting range and conducts asbestos sampling.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Emergency Response: Various chemicals (i.e. petroleum distillates) and heat stress* Personnel from each section form an emergency response team in the event of environmental spills/disasters. This can include anything from storage tank spills to a vehicle leaking fuel.	2	As needed 30 minutes- several hours	PPE: Level A/B/C's (Can include the use of a full face respirator). ADM: Work/rest cycles based on the flag condition.	UNCERTAIN for various chemicals: Specific exposure assessments for emergency response can only be completed on a case-by-case basis. However, generally anticipate low toxicity & limited frequency/duration of exposure. ACCEPTABLE for heat: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition. Personnel should be placed in a medical surveillance program for respirator use (716). Personnel are issued a Scott full face respirator mask only. These are compatible with the SCBA equipment maintained by the fire department. For situations when the mask is used with the P100/OV combo cartridge, the combo cartridge should be discarded after each use. <i>* High heat is a reproductive hazard.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE:	8 May 2018	
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Environmental Branch-Pollution Prevention SHOP HAZARD PRIORITY RATING: 1		POC:	Mr. Metts	
		PHONE:	639-8934	
		TOTAL PERSONNEL:	6 (Civ: 6)	
		MALE:	6	
		FEMALE:	0	
SHOP OPERATIONS: This shop is part of the Environmental Branch. The Pollution Prevention section is responsible for tracking all HAZMAT on base, the drinking water program, storage tanks, asbestos program and runs the base recycling program. Personnel also make up the emergency response team and the section head cleans the small arms shooting range and conducts asbestos sampling.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	Any	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE:	8 May 2018	
RECORDED BY:	Whitney Bishop	POC:	Mr. Kennedy	
COMMAND:	MCLB Installation and Environment Division	PHONE:	639-5927/5614	
BLDG:	12036/10308/9255	TOTAL PERSONNEL:	3 (Civ: 3)	
SHOP:	Housing Branch	MALE:	2	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	1	
<p>SHOP OPERATIONS: The Housing Branch provides centralized management of all housing available at MCLB Albany. This includes Family Housing, Bachelor Housing and Transient Housing, which is addressed in a separate IHA. Personnel are responsible for maintaining various aspects of these housing facilities.</p> <p>Family Housing (3 Civ 1 Female): This office includes the Housing Officer and Referral Agents. The Housing officer is responsible for oversight of the contract for housing with Lincoln Military Housing Company. This person is the advocate for the military residents. The Referral agents processes all paperwork and acts as the liaison between the families and Lincoln Military Housing Company. Both personnel are primarily conducting administrative work in an office environment.</p> <p>Bachelor Housing (1 Mil Male): This person is responsible for all administrative work for the bachelor housing. This includes assigning rooms, conducting inventory of rooms' pre/post check outs, providing house rules and performing monthly habitability checks of all living spaces. Note: This person is not assigned to the I&E Division; therefore, his personnel count nor hazards are included here. As a military Marine he should be included in the hearing conservation program due to weapons qualifications.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.</p>				

INDIVIDUAL HAZARD ASSESSMENT			DATE:	8 May 2018
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 12036/10308/9255 SHOP: Housing Branch-Transient Housing SHOP HAZARD PRIORITY RATING: 2			POC: Mr. Kennedy PHONE: 639-5927/5614 TOTAL PERSONNEL: 9 (Civ: 9) (Does not include Mr. Kennedy) MALE: 1 FEMALE: 8	
SHOP OPERATIONS: The housing branch provides centralized management of all housing available at MCLB Albany. Personnel are responsible for maintaining the Live Oak Lodge housing. This office includes five housekeepers, two laundry workers, one front desk attendant and one inventory clerk.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Various shop operations: Noise* 1. Housekeeping: Housekeepers will use a power blower to clean cat walk at 7102. 2. Laundry: Laundry personnel are around washer and dryers that are running most of the day.	1. 5 2. 2	1. As needed 1x/week 5-10 minutes 2. Daily Up to 8 hours	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96dBA.	ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. <i>*Noise is a recognized developmental reproductive hazard.</i>
Housekeeping: Dust and bloodborne pathogens (body fluids) Housekeepers use various chemicals to clean rooms at the Live Oak Lodge. This can include the use of: Clorox bleach, Pine Oil, Glass cleaner, furniture polish and air fresheners. Personnel also dust rooms and pull linens from the rooms. Linens could be soiled with various unknowns. Housekeepers will use a power blower to clean cat walk at 7102.	5	Daily Up to 8 hours	PPE: Disposable nitrile gloves, safety glasses, filtering face piece respirator (Dust Mask – Voluntary basis). ADM: Bloodborne pathogen training.	ACCEPTABLE: Personnel exposure to chemicals and dust in excess of the standard is not expected based on the duration and frequency of the operation. Currently personnel are wearing NIOSH approved dust masks when dusting and using the blower on the cat walk on a voluntary basis. All workers should continue to be trained on Bloodborne Pathogens and be offered (or show proof of receiving) the complete Hepatitis B immunization series. Medical surveillance for Blood and/or Body Fluid (178) is required.
Laundry: Bloodborne pathogens (body fluids) Personnel receive laundry from housekeeping, sort, wash/dry and fold. This includes the use of various detergents in a closed loop system to the washers.	2	Daily Up to 8 hours	PPE: Disposable nitrile gloves and safety glasses. ADM: Bloodborne pathogen training.	ACCEPTABLE: Personnel exposure to chemicals and dust in excess of the standard is not expected based on the duration and frequency of the operation. All workers should continue to be trained on Bloodborne Pathogens and be offered (or show proof of receiving) the complete Hepatitis B immunization series. Medical surveillance for Blood and/or body fluid (178) is required.

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 12036/10308/9255 SHOP: Housing Branch-Transient Housing SHOP HAZARD PRIORITY RATING: 2		POC: Mr. Kennedy PHONE: 639-5927/5614 TOTAL PERSONNEL: 9 (Civ: 9) (Does not include Mr. Kennedy) MALE: 1 FEMALE: 8		
SHOP OPERATIONS: The housing branch provides centralized management of all housing available at MCLB Albany. Personnel are responsible for maintaining the Live Oak Lodge housing. This office includes five housekeepers, two laundry workers, one front desk attendant and one inventory clerk.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Housekeeping and Laundry: Heat*/cold stress Personnel perform various activities that expose them to heat stress or cold stress throughout the day. This includes traveling from house to house, working in rooms that have the heat on high and heat from the driers.	7	Daily Intermittent	PPE: Warm weather clothing for the winter. ADM: Work/rest cycles based on the flag condition and air conditioned room to fold laundry.	ACCEPTABLE: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition and operations being performed. Personnel should be encouraged to hydrate while working outside. Personnel are encouraged to seek shelter in the air conditioned areas routinely throughout the day especially during the high heat season. <i>*High heat is considered a reproductive hazard.</i>
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk. This includes the Front desk attendant, inventory clerk and housekeeper lead that can spend 70-80% of her time in the office; the rest of the time is out assisting housekeepers.	3	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				

INDIVIDUAL HAZARD ASSESSMENT				DATE: 8 May 2018
RECORDED BY: Whitney Bishop		COMMAND: MCLB Installation and Environment Division		POC: Mr. Kennedy
BLDG: 12036/10308/9255		SHOP: Housing Branch-Transient Housing		PHONE: 639-5927/5614
SHOP HAZARD PRIORITY RATING: 2		TOTAL PERSONNEL: 9 (Civ: 9) (Does not include Mr. Kennedy)		
		MALE: 1		FEMALE: 8
SHOP OPERATIONS: The housing branch provides centralized management of all housing available at MCLB Albany. Personnel are responsible for maintaining the Live Oak Lodge housing. This office includes five housekeepers, two laundry workers, one front desk attendant and one inventory clerk.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes:</p> <p>ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL).</p> <p>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.</p> <p>UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL.</p> <p>WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress.</p> <p>SKIN – The material poses a skin absorption hazard.</p> <p>REPRO HAZARD – The material is a Navy-recognized reproductive hazard.</p> <p>CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.</p>				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop	COMMAND: MCLB Installation and Environment Division	BLDG: 5501	SHOP: Public Works Branch	SHOP HAZARD PRIORITY RATING: 2
POC:	Branch Head Mr. Slichter and section supervisors (listed below)			
PHONE:	639-8616			
TOTAL PERSONNEL:	31 (Civ: 29)			
MALE:	28			
FEMALE:	2			
<p>SHOP OPERATIONS: The public works branch provides oversight and coordination of planning, engineering, construction and maintenance for MCLB Albany and tenant mission essential facilities. This includes Engineering, Planning, Operations and Facility Maintenance. The Public Works Branch also includes Facilities Engineering and Acquisitions Department (FEAD) which is responsible for awarding and administering service, construction and engineering contracts. (FEAD is discussed in a separate IHA).</p> <p>Engineering (Ms. Geisel 7 Civ 2 females): This section is responsible for developing projects to include the RFP's, plans and specifications. It includes 5 Engineers and 2 Engineering technicians.</p> <p>Planning (Mr. Barrett 6 Civ Males): This section includes the planning supervisor, the Real property analyst responsible for tracking and inventorying all navy property on base and the geographical information system (GIS) mapping specialist that is responsible for mapping the base. All personnel are primarily in the office for the majority of the day.</p> <p>Operations (Mr. Barker 15 Civ, 1 Mil, 15 males) This section includes operations (9) (trouble desk) and supply (3). (Note FSC is no longer under this department and is discussed in a separate IHA)</p> <p>Facility Maintenance (Mr. Dauro 1 Civ, 1 Mil) This section includes all of the maintenance sections which are addressed in separate IHAs. Only the supervisor and the Marine is accounted for here. The Marine can work throughout the Maintenance workcenters and therefore should review the Individual Hazard Assessment for whatever workcenter he is working in.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Various operations: Noise*</p> <p>1. Engineering-Site visits-Engineers: Engineers will go out in the field to perform various duties to include pre site inspections.</p> <p>2. Engineering-Site visits-Technicians: Engineering technicians are out in the field performing various duties.</p> <p>3. Operations-Help desk site visits: Personnel may have to go out in the field to gather more information for the help desk ticket or to verify the ticket was completed. This can include entering hazardous noise area.</p> <p>5. Operations-PM Warranty Asset inspections: Personnel may have to go out to perform warranty asset inspections to include the MDMC.</p> <p>6. Weapons Qualification: All marines are required to perform weapons qualifications and therefore are exposed to hazardous noise. Military personnel qualify on various weapons, e.g. 9mm and M-4, based on grade. Pistol qualification for E-6s and above is conducted at the Albany outdoor firing range.</p>	<p>1. 5</p> <p>2. 2</p> <p>3. 6</p> <p>5. Ctr</p> <p>6. 2</p>	<p>1. Daily 2-3 hours</p> <p>2. 2-3x/day 2-3 hours</p> <p>3. As needed Maybe 1x/month Less than 1 hour</p> <p>5. 2-3x/week Up to 8 hours</p> <p>6. 2x/year 6-8 hours</p>	<p>PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96dBA.</p>	<p>1-4. ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation.</p> <p>5. UNCERTAIN: Personnel can work for extended periods of time in the MDMC. At the time of the survey this position was filled by a contractor. If this changes, please contact Industrial Hygiene so that sampling can be performed to verify exposures.</p> <p>6. UNACCEPTABLE: All active duty Marine Corps personnel are included by Marine Corps policy (MCO 6260.3 of 26 Sept 16) in the Hearing Conservation Program and its associated medical surveillance. Weapons qualification is known to produce overexposures to noise. Note Initial qualification includes the use of the indoor simulation marksmanship training (ISMT) facility at Bldg. 11211. ISMT is generally used during the 1st day of instruction.</p> <p>E-5s and below conduct rifle qualification at the Parris Island facility.</p> <p>Double protection is required during weapons firing on range.</p> <p>Medical surveillance for Noise (503) is required.</p> <p><i>*Noise is a recognized developmental reproductive hazard.</i></p>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Public Works Branch SHOP HAZARD PRIORITY RATING: 2		POC: Branch Head Mr. Slichter and section supervisors (listed below) PHONE: 639-8616 TOTAL PERSONNEL: 31 (Civ: 29) MALE: 28 FEMALE: 2		
<p>SHOP OPERATIONS: The public works branch provides oversight and coordination of planning, engineering, construction and maintenance for MCLB Albany and tenant mission essential facilities. This includes Engineering, Planning, Operations and Facility Maintenance. The Public Works Branch also includes Facilities Engineering and Acquisitions Department (FEAD) which is responsible for awarding and administering service, construction and engineering contracts. (FEAD is discussed in a separate IHA).</p> <p>Engineering (Ms. Geisel 7 Civ 2 females): This section is responsible for developing projects to include the RFP's, plans and specifications. It includes 5 Engineers and 2 Engineering technicians.</p> <p>Planning (Mr. Barrett 6 Civ Males): This section includes the planning supervisor, the Real property analyst responsible for tracking and inventorying all navy property on base and the geographical information system (GIS) mapping specialist that is responsible for mapping the base. All personnel are primarily in the office for the majority of the day.</p> <p>Operations (Mr. Barker 15 Civ, 1 Mil, 15 males) This section includes operations (9) (trouble desk) and supply (3). (Note FSC is no longer under this department and is discussed in a separate IHA)</p> <p>Facility Maintenance (Mr. Dauro 1 Civ, 1 Mil) This section includes all of the maintenance sections which are addressed in separate IHAs. Only the supervisor and the Marine is accounted for here. The Marine can work throughout the Maintenance workcenters and therefore should review the Individual Hazard Assessment for whatever workcenter he is working in.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Weapons Firing/Qualification: Lead* dust When perform weapons qualifications, there could be minor exposure to lead dust. Qualifications are performed at an outdoor range. The outdoor range is cleaned/maintained by base environmental however personnel will collect brass at the end of day using a broom and dust pan.	2	2x/year 6-8 hours	PPE: Safety glasses. ADM: Wash hands thoroughly after handling weapons and brass to prevent the incidental ingestion of lead.	ACCEPTABLE. Based on sampling of similar exposure groups at indoor/outdoor facilities at other installations, personnel exposures to lead in excess of the standard is not expected during normal weapons firing operations. Personnel should practice good housekeeping and hygienic work practices including washing hands immediately after this evolution, as well as not eating, drinking or smoking in the area. Personnel should NEVER dry sweep a firing range with a broom and dust pan. <i>* Lead is a recognized developmental reproductive hazard.</i>
Cleaning weapons: Lead* dust Personnel use various types of CLP (various oils and petroleum distillates) to clean weapons. This is usually drop applied and cleaned with a cloth or cotton swab. There is also the potential for contact with lead dust during this operation.	2	2x/year 10-15 minutes	PPE: Safety glasses. ADM: Wash hands thoroughly after handling weapons and brass to prevent the incidental ingestion of lead.	ACCEPTABLE. Based on sampling of similar exposure groups at indoor/outdoor facilities at other installations, personnel exposure in excess of the standard is not expected. Personnel should use caution after working with weapons and bullets to wash hands before eating or drinking to avoid ingestion of lead. <i>* Lead is a recognized reproductive hazard and carcinogen.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Public Works Branch SHOP HAZARD PRIORITY RATING: 2		POC: Branch Head Mr. Slichter and section supervisors (listed below) PHONE: 639-8616 TOTAL PERSONNEL: 31 (Civ: 29) MALE: 28 FEMALE: 2		
<p>SHOP OPERATIONS: The public works branch provides oversight and coordination of planning, engineering, construction and maintenance for MCLB Albany and tenant mission essential facilities. This includes Engineering, Planning, Operations and Facility Maintenance. The Public Works Branch also includes Facilities Engineering and Acquisitions Department (FEAD) which is responsible for awarding and administering service, construction and engineering contracts. (FEAD is discussed in a separate IHA).</p> <p>Engineering (Ms. Geisel 7 Civ 2 females): This section is responsible for developing projects to include the RFP's, plans and specifications. It includes 5 Engineers and 2 Engineering technicians.</p> <p>Planning (Mr. Barrett 6 Civ Males): This section includes the planning supervisor, the Real property analyst responsible for tracking and inventorying all navy property on base and the geographical information system (GIS) mapping specialist that is responsible for mapping the base. All personnel are primarily in the office for the majority of the day.</p> <p>Operations (Mr. Barker 15 Civ, 1 Mil, 15 males) This section includes operations (9) (trouble desk) and supply (3). (Note FSC is no longer under this department and is discussed in a separate IHA)</p> <p>Facility Maintenance (Mr. Dauro 1 Civ, 1 Mil) This section includes all of the maintenance sections which are addressed in separate IHAs. Only the supervisor and the Marine is accounted for here. The Marine can work throughout the Maintenance workcenters and therefore should review the Individual Hazard Assessment for whatever workcenter he is working in.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Engineering site visits: Heat stress* Personnel may have to perform site visits on active construction sites to check on work. 1. Engineers 2. Engineering Technicians	1. 5 2. 2	1. Daily 2-3 hours 2. 2-3x/day 2-3 hours	ADM: Work/rest cycles based on the flag condition.	ACCEPTABLE: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition and operations being performed. Personnel should be encouraged to hydrate while working outside. Personnel are encouraged to seek shelter in the air conditioned areas routinely throughout the day especially during the high heat season. <i>*High heat is considered a reproductive hazard.</i>
Operations-Supply: Heat stress* Personnel are responsible for maintaining all of the supplies used by I & E. Government personnel are mostly responsible for purchasing, tracking and inventorying all supplies. However, personnel can fill in and assist in the warehouse issuing supplies (PPE, chemicals, parts and tools).	3	As needed	ADM: Work/rest cycles based on the flag condition.	ACCEPTABLE: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition and operations being performed. Personnel should be encouraged to hydrate while working outside. Personnel are encouraged to seek shelter in the air conditioned areas routinely throughout the day especially during the high heat season. <i>*High heat is considered a reproductive hazard.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5501 SHOP: Public Works Branch SHOP HAZARD PRIORITY RATING: 2		POC: Branch Head Mr. Slichter and section supervisors (listed below) PHONE: 639-8616 TOTAL PERSONNEL: 31 (Civ: 29) MALE: 28 FEMALE: 2		
<p>SHOP OPERATIONS: The public works branch provides oversight and coordination of planning, engineering, construction and maintenance for MCLB Albany and tenant mission essential facilities. This includes Engineering, Planning, Operations and Facility Maintenance. The Public Works Branch also includes Facilities Engineering and Acquisitions Department (FEAD) which is responsible for awarding and administering service, construction and engineering contracts. (FEAD is discussed in a separate IHA).</p> <p>Engineering (Ms. Geisel 7 Civ 2 females): This section is responsible for developing projects to include the RFP's, plans and specifications. It includes 5 Engineers and 2 Engineering technicians.</p> <p>Planning (Mr. Barrett 6 Civ Males): This section includes the planning supervisor, the Real property analyst responsible for tracking and inventorying all navy property on base and the geographical information system (GIS) mapping specialist that is responsible for mapping the base. All personnel are primarily in the office for the majority of the day.</p> <p>Operations (Mr. Barker 15 Civ, 1 Mil, 15 males) This section includes operations (9) (trouble desk) and supply (3). (Note FSC is no longer under this department and is discussed in a separate IHA)</p> <p>Facility Maintenance (Mr. Dauro 1 Civ, 1 Mil) This section includes all of the maintenance sections which are addressed in separate IHAs. Only the supervisor and the Marine is accounted for here. The Marine can work throughout the Maintenance workcenters and therefore should review the Individual Hazard Assessment for whatever workcenter he is working in.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	All	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	<p>WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough.</p> <p>Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring.</p> <p>Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment.</p> <p>Any ergonomic-related injury should be reported to the command safety officer.</p>
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 12036/10308/9255 SHOP: Facilities Support Contracting team (FSC) SHOP HAZARD PRIORITY RATING: 2		POC: Chris Howe PHONE: 639-8616 TOTAL PERSONNEL: 6 (Civ: 6) MALE: 6 FEMALE: 0		
SHOP OPERATIONS: Personnel are responsible for awarding and administering service, construction and engineering small contracts that are not managed by NAVFAC.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Site visits: Noise* Personnel may have to perform site visits to check on work, this could include entering hazardous noise areas. Personnel manage subcontractors who perform building maintenance, landscaping/janitorial services and machine maintenance. Personnel may have to perform site visits to check on work.	6	2-3x/day Less than 1 hour	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96dBA.	ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. <i>*Noise is a recognized developmental reproductive hazard.</i>
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	3	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5500 SHOP: PW-NAVFAC-FEAD SHOP HAZARD PRIORITY RATING: 2		POC: LT OrRico PHONE: 639-5959 TOTAL PERSONNEL: 14 (Civ: 11) MALE: 12 FEMALE: 2		
SHOP OPERATIONS: This command is not actually assigned to the I & E division; however, it is accounted for under this report. The Albany office consists of 2 construction managers, 2 engineering technicians, a contracting officer, 3 contracting specialists and a procurement technician. They are responsible for awarding and administering service, construction and engineering contracts at Marine Corps Logistics Base, Albany, Ga.; Naval Support Activity, Athens, Ga.; and Naval Air -Station, Atlanta, Ga. These personnel are primarily in the office but some may go out in the field to perform site visits.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Various operations: Noise* 1. Site visits-Manager: The construction manager may visit an active construction site to see how things are going. 2. Site visits-Technicians: Engineering technicians are out in the field making sure the contractor is following plans and safety protocols. 3. Site visits-Contracting Officer: The contracting officer will go out to perform an initial site visit before any construction has begun and therefore not exposed to noise.	1. 1 2. 3 3. 4	1. 1x/week Less than 1 hour 2. Daily Up to 6 hours 3. As needed	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96dBA.	ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. Also based on sampling performed on the technicians. See attachment (4) for noise dosimetry results. <i>*Noise is a recognized developmental reproductive hazard.</i>
Various operations: Heat stress* 1. Site visits-Manager: The construction manager may visit an active construction site to see how things are going. 2. Site visits-Technicians: Engineering technicians are out in the field making sure the contractor is following plans and safety protocols. 3. Site visits-Contracting Officer: The contracting officer will go out to perform an initial site visit before any construction has begun and therefore not exposed to noise.	1. 1 2. 3 3. 4	1. 1x/week Less than 1 hour 2. Daily Up to 6 hours 3. As needed	ADM: Work/rest cycles based on the flag condition.	ACCEPTABLE: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition and operations being performed. Personnel should be encouraged to hydrate while working outside. Personnel are encouraged to seek shelter in the air conditioned areas routinely throughout the day especially during the high heat season. <i>*High heat is considered a reproductive hazard.</i>

INDIVIDUAL HAZARD ASSESSMENT			DATE:	8 May 2018	
RECORDED BY: Whitney Bishop	COMMAND: MCLB Installation and Environment Division	BLDG: 5500	SHOP: PW-NAVFAC-FEAD	SHOP HAZARD PRIORITY RATING: 2	POC: LT OrRico PHONE: 639-5959 TOTAL PERSONNEL: 14 (Civ: 11) MALE: 12 FEMALE: 2
SHOP OPERATIONS: This command is not actually assigned to the I & E division; however, it is accounted for under this report. The Albany office consists of 2 construction managers, 2 engineering technicians, a contracting officer, 3 contracting specialists and a procurement technician. They are responsible for awarding and administering service, construction and engineering contracts at Marine Corps Logistics Base, Albany, Ga.; Naval Support Activity, Athens, Ga.; and Naval Air Station, Atlanta, Ga. These personnel are primarily in the office but some may go out in the field to perform site visits.					
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)	
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	All	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.	
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation					
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.					

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2210/2299 SHOP: PW-FM Boiler SHOP HAZARD PRIORITY RATING: 2		POC: Mr. Prather PHONE: 6395612/5617 TOTAL PERSONNEL: 5 (Civ: 5) MALE: 5 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. Personnel operate the boilers that provide steam and air to LOGCOM's Marine Depot Maintenance Command (MDMC). Personnel work in 3 shifts and make hourly rounds to check the status of the boilers and associated equipment. They also perform various samples to test the water conditions. Personnel only operate and monitor the boilers; all major repair work is performed by contractor personnel. The supervisors no longer operate or monitor the propane receiving and mixing station located at building 5200 as it is under the process of being demolished.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Boiler checks: Noise* Personnel walk throughout the boiler rooms on an hourly basis to check meters and grab samples.	5	7-8x/day 10 minutes each time	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.	UNACCEPTABLE: Based on sampling. Personnel may be exposed above the DoD standard of 85 dBA. Double hearing protection requires the use of earplugs AND muffs. See attachment (4) for sound level measurements and dosimetry results. Medical surveillance for Noise (503) is required. <i>*Noise is a recognized developmental reproductive hazard.</i>
Water testing: Potassium iodide* Personnel pull a sample every 8-hours to perform various tests to include alkalinity, chloride, sulfite test, pH and conductivity. Personnel use various chemicals to include (Gallic acid powder, phenolphthalein indicator solution (methyl alcohol), methyl orange solution, potassium chromate indicator solution (potassium chromate), hardness titrating solution, silver nitrate, sulfuric acid, potassium iodide-iodate titrating solution (potassium iodide*)) in small amounts to perform the various tests. Personnel also pull 2 samples on water softeners every 4 hours to perform a hardness test.	5	3x/ day 10 minutes each time	PPE: Disposable nitrile gloves, goggles and face shield as needed.	ACCEPTABLE: Based on the process description and the small amounts of the chemicals used, there should be no significant exposures. <i>*Potassium iodide is a recognized developmental reproductive hazard.</i>
Checking condensate pit: Oxygen deficiency Personnel enter a non-permit required confined space to check the condensate pit. Personnel follow all safety protocols to include continuously monitoring the area for LEL and oxygen content via a permanently installed meter and having 2 personnel (one inside, one outside-watch).	5	Daily >3 minutes for check 5-10 minutes for sample	PPE: Hard hat and harness. ADM: Opened confined space that allows for natural ventilation.	ACCEPTABLE: Based on proper adherence to established confined space protocols. The confined space has a large open grate over the opening allowing for the space to continually be filled with natural air.

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RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2210/2299 SHOP: PW-FM Boiler SHOP HAZARD PRIORITY RATING: 2		POC: Mr. Prather PHONE: 6395612/5617 TOTAL PERSONNEL: 5 (Civ: 5) MALE: 5 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. Personnel operate the boilers that provide steam and air to LOGCOM's Marine Depot Maintenance Command (MDMC). Personnel work in 3 shifts and make hourly rounds to check the status of the boilers and associated equipment. They also perform various samples to test the water conditions. Personnel only operate and monitor the boilers; all major repair work is performed by contractor personnel. The supervisors no longer operate or monitor the propane receiving and mixing station located at building 5200 as it is under the process of being demolished.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Adjusting water chemistry: Sodium sulfite, sodium sulfate and heavy lifting* Personnel may add sodium chloride salt, TSC-803(Sodium Lignosulfonate), TSC-808L (sodium sulfite and sodium sulfate), TSC-809 (morpholine), or TSC 804L (sodium carbonate and Sodium Lignosulfonate) to the system based on test results. Personnel may have to move and lift several 50-pound bags of salt and/or move 55-gallon barrels of water treatment chemicals.	5	As needed	PPE: Disposable nitrile gloves, goggles and face shield as needed. ENG: Closed loop system. ADM: Proper lifting techniques. ENG: Hydraulic pump jack.	ACCEPTABLE for chemicals: Based on the process description there should be no significant exposures. WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. <i>*Heavy lifting is a developmental reproductive hazard.</i>
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	All	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
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INDIVIDUAL HAZARD ASSESSMENT			DATE:	9 May 2018
RECORDED BY:	Whitney Bishop	POC:	Mr. Prather	
COMMAND:	MCLB Installation and Environment Division	PHONE:	6395612/5617	
BLDG:	2210/2299	TOTAL PERSONNEL:	5 (Civ: 5)	
SHOP:	PW-FM Boiler	MALE:	5	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	0	
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. Personnel operate the boilers that provide steam and air to LOGCOM's Marine Depot Maintenance Command (MDMC). Personnel work in 3 shifts and make hourly rounds to check the status of the boilers and associated equipment. They also perform various samples to test the water conditions. Personnel only operate and monitor the boilers; all major repair work is performed by contractor personnel. The supervisors no longer operate or monitor the propane receiving and mixing station located at building 5200 as it is under the process of being demolished.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes:</p> <p>ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL).</p> <p>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.</p> <p>UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL.</p> <p>WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress.</p> <p>SKIN – The material poses a skin absorption hazard.</p> <p>REPRO HAZARD – The material is a Navy-recognized reproductive hazard.</p> <p>CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.</p>				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 10 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2285 SHOP: PW-FM CRS SHOP HAZARD PRIORITY RATING: 1		POC: Ricky Stallings PHONE: 639-5628 TOTAL PERSONNEL: 9 (Civ: 9) MALE: 9 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The Central Repair Shop (CRSs) responds to maintenance tickets for the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There is 3 electricians, 4 mechanics, 1 helper and 1 lead on staff that perform a variety of duties to include minor facility maintenance, electrical work, welding, etc. There is no longer a plumber assigned to this shop and therefore no plumbing activities. Personnel are no longer responsible for the blast booths and therefore respiratory protection is no longer needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Various shop operations: Noise* Personnel use various power tools and work in industrial areas inside the maintenance center. Personnel are exposed to hazardous noise on a routine basis when performing electrical work, equipment PMs and maintenance calls. This can also include the use of a vacuum pump truck to clean water out of man holes.	9	Daily Up to 8 hours	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.	UNACCEPTABLE: Based on sampling. Personnel may be exposed above the DoD standard of 85 dBA. See attachment (4) for sound level measurements and dosimetry results. Medical surveillance for Noise (503) is required. <i>*Noise is a recognized developmental reproductive hazard.</i>
Electrical work: Petroleum distillate 64742-53-6, toluene* and electric shock Personnel respond to maintenance tickets within the MDMC area and include installing, modifying and troubleshooting equipment. This can include the use of Misty contact & circuit board cleaner (trans 1, 2-dichloroethylene and ethanol), 3M Super weather strip and gasket adhesive (methyl ethyl ketone, toluene*) and Ideal yellow 77 wire pulling lubricant (petroleum distillate 64742-53-6).	4 Mechanics 3 Electricians	As required by tickets 1x/week Less than 1 hour per ticket	PPE: Disposable nitrile gloves during chemical use. ADM: Follows NFPA 70E rules to include lockout/tagout.	ACCEPTABLE: Based on the process description there should be no significant exposures. <i>*Toluene is a recognized developmental reproductive hazard.</i>
Maintenance-Small arms shooting range: Lead dust* Personnel may have to perform various types of minor maintenance inside the MDMC shooting range to include the bullet trap at the end of the range. This is mostly working on the electrical panels or on the building structure.	7	As needed	ADM: Environmental shop personnel will wet down and clean the area before entry wearing required PPE, wash hand upon existing. PPE: Disposable nitrile gloves, Tyvek suite and safety glasses/googles as needed.	ACCEPTABLE: Based on the process description and the environmental shop wetting the area down first, there should be no significant inhalation exposures; however, personnel should be cognizant to wash hands after working in the area to remove and lead from their hands to eliminate an ingestion hazard. <i>*Lead is a developmental reproductive hazard.</i>

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SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The Central Repair Shop (CRSs) responds to maintenance tickets for the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There is 3 electricians, 4 mechanics, 1 helper and 1 lead on staff that perform a variety of duties to include minor facility maintenance, electrical work, welding, etc. There is no longer a plumber assigned to this shop and therefore no plumbing activities. Personnel are no longer responsible for the blast booths and therefore respiratory protection is no longer needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Equipment PMs: Electrical shock and dust Personnel provide preventative maintenance measures to various pieces of equipment in the maintenance center. This includes performing an operational check to check all moving parts and replacing parts as needed. Machines include but not limited to: arbor press, band saws, bore punch machines, brake presses, buffer benches, drill presses, drying ovens, exhaust fans, grinders, honing machines, hydraulic presses, lathes, milling machines, parts washers and punch machines.	4 Mechanics 3 Electricians	2-3x/month 10-60 minutes	ADM: Lock out/ tag out. ADM: Wipe the area down with a wet cloth to remove dust hazard.	ACCEPTABLE: Based on the process description there should be no significant exposures.
Maintenance calls-applying lubricants: Petroleum distillate, methylene chloride* and polyvinyl chloride Personnel respond to maintenance tickets within the MDMC area and can include the use of various greases and lubricants: 1. LPS3 Heavy duty rust inhibitor (petroleum distillate) used when fabricating new materials. 2. CRC 3-36 Multipurpose lubricant (petroleum distillate) for lubricating parts. 3. Loctite 24221 removable threadlocker (Cumene Hydroperoxide) for lubricating parts. 4. Safety solvent degreaser (methylene chloride*) used to clean equipment before preventative maintenance. 5. NAPA HD 30W Lubrication oil (Petroleum Distillates 64742-54-7) for PM on compressors.	4 Mechanics	1. 2-3x/year 1-2 hours 2. Daily 5-10 minutes 3. Daily 5-10 minutes 4. 1-2x/week 30 minutes 5. 1-2x/year 30 minutes	PPE: Disposable nitrile gloves as needed.	ACCEPTABLE: Based on the process description there should be no significant exposures. <i>* Methylene chloride is a listed carcinogen.</i>

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RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2285 SHOP: PW-FM CRS SHOP HAZARD PRIORITY RATING: 1		POC: Ricky Stallings PHONE: 639-5628 TOTAL PERSONNEL: 9 (Civ: 9) MALE: 9 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The Central Repair Shop (CRSs) responds to maintenance tickets for the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There is 3 electricians, 4 mechanics, 1 helper and 1 lead on staff that perform a variety of duties to include minor facility maintenance, electrical work, welding, etc. There is no longer a plumber assigned to this shop and therefore no plumbing activities. Personnel are no longer responsible for the blast booths and therefore respiratory protection is no longer needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Maintenance calls-applying sealants: Crystalline silica* and petroleum distillates 64742-52-5 Personnel respond to maintenance tickets within the MDMC area and can include: 1. Sealing windows and doors using: Dow corning 8641 Silicone rubber seal-clear (ethyltriacetoxysilane) or Sherwin Williams 3006 White lightening adhesive caulk (solvent naphtha-64742-88-7). 2. Patching roads and filling cracks using Flexset rapid concrete repair (4,4'-diphenylmethane diisocyanate 101-68-8) or 3M 62-2649-1233-8 concrete self-leveling kit gray 2 part (4,4'-diphenylmethane diisocyanate 101-68-8 and Polyether Polyol). 3. Fill gaps in non-load bearing foundations using Euclid Chemical 065A Eucopatch (crystalline silica *) 4. Replacing and installing floor tiles using Henry 430 floor tile cement (petroleum distillates 64742-52-5) 5. Personnel can use various PVC chemicals when repairing or installing PVC piping: 30795 PVC cleaner (methyl ethyl ketone and alcohol) and 30876 PCV clear cement (polyvinyl chloride).	4 Mechanics	1. 2-3x/week 1-2 hours 2. 2-3x/month >1 hour 3. 1x/year 1-2 hours 4. Replacing: as needed >30 minutes Install: as needed Several days Up to 8 hours 5. 2-3x/week 1-2 hours	PPE: Disposable nitrile gloves as needed.	ACCEPTABLE: Based on the process description there should be no significant exposures. <i>* Crystalline silica is a listed carcinogen.</i>

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RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2285 SHOP: PW-FM CRS SHOP HAZARD PRIORITY RATING: 1		POC: Ricky Stallings PHONE: 639-5628 TOTAL PERSONNEL: 9 (Civ: 9) MALE: 9 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The Central Repair Shop (CRSs) responds to maintenance tickets for the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There is 3 electricians, 4 mechanics, 1 helper and 1 lead on staff that perform a variety of duties to include minor facility maintenance, electrical work, welding, etc. There is no longer a plumber assigned to this shop and therefore no plumbing activities. Personnel are no longer responsible for the blast booths and therefore respiratory protection is no longer needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Maintenance-steam lines: Burns and oxygen deficiency Personnel respond to maintenance tickets within the MDMC area and can include: 1. Personnel work with above ground steam lines (burns) fixing leaks or fabricating additions to the lines. 2. Working in confined spaces: Personnel enter a permit required confined spaces to work on steam lines. Personnel follow all safety protocols to include continuously monitoring the area for LEL and oxygen content via an MX4 meter, having 2 personnel (one inside, one outside-watch). Personnel may have to get a burn permit if brazing is needed (1x in the last 2 years).	4 Mechanics	1. Quarterly 1 hour 2. 1x/month 4-6 hours	1. ADM: Lock out/ tag out. PPE: Leather gloves as needed. 2. ADM: SOP for confined space entry and Lock out/tag out. PPE: Hard hat and harness.	ACCEPTABLE: Based on the process description there should be minimal exposures with proper adherence to established confined space protocols.
Maintenance-Painting-aerosol cans: Acetone, butyl acetate, VM&P naphtha and carbon black* Personnel can use various aerosol paints to paint stands, plates or brackets. Aerosol paints: 37875 Eco Sure Flat White (acetone, butyl acetate, VM&P naphtha) 17038 Eco Sure Gloss black (acetone, butyl acetate, VM&P naphtha and carbon black) 11105 Eco Sure Red (acetone, butyl acetate and butyl alcohol)	All	2x/week 1 hour (includes drying times)	PPE: Disposable nitrile gloves and goggles as needed. ADM: Performed in an open area.	ACCEPTABLE: Based on the process description there should be no significant exposures. Personnel stated that they will sometimes use MDMC paint booths. <i>*Carbon black is a listed carcinogen.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 10 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2285 SHOP: PW-FM CRS SHOP HAZARD PRIORITY RATING: 1		POC: Ricky Stallings PHONE: 639-5628 TOTAL PERSONNEL: 9 (Civ: 9) MALE: 9 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The Central Repair Shop (CRSs) responds to maintenance tickets for the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There is 3 electricians, 4 mechanics, 1 helper and 1 lead on staff that perform a variety of duties to include minor facility maintenance, electrical work, welding, etc. There is no longer a plumber assigned to this shop and therefore no plumbing activities. Personnel are no longer responsible for the blast booths and therefore respiratory protection is no longer needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Maintenance-Welding: Aluminum, cadmium* and UV radiation* Personnel are trained to provide minor spot repair welding and small fabrication (signs, baskets, plates and brackets) operations. This can include MIG welding on aluminum. Note during the most recent survey only one person was trained to perform MIG welding and therefore NO TIG or stainless steel welding was occurring. Therefore Hexavalent chromium and thorium hazards were removed. Please notify Industrial Hygiene if this operation changes.	1	As needed Less than 1 hour	PPE: UV welding helmet, gloves and jacket. ENG: UV filtering curtains and /or barriers.	ACCEPTABLE: Based on the process description there should be no significant exposures. There is a large exhaust fan for the warehouse next to the welding table. Personnel should be cautious to not stand with their back to the fan blowing welding fumes into their face. The shop has procured a local portable exhaust system, however they are still waiting on parts in order to use. Please notify Industrial Hygiene as soon as it is up and running so they can perform a survey. <i>*Cadmium and UV radiation are listed carcinogens.</i>
Shop operations: Heat stress* and UV radiation* Personnel spend 50-80% of the time outside or in spaces without air condition.	All	Daily Up to 8 hours	PPE: Sunscreen (>30 SPF), UV protective sunglasses. ADM: Work/rest cycles based on the flag condition.	ACCEPTABLE: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition. Personnel should be provided PPE to protect against UV radiation including sunglasses. Personnel exposed to UV radiation may develop pinguecula or pterygium (growths on the eye's cornea). <i>*High heat is considered a reproductive hazard.</i> <i>* UV radiation is a recognized carcinogen.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 10 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2285 SHOP: PW-FM CRS SHOP HAZARD PRIORITY RATING: 1		POC: Ricky Stallings PHONE: 639-5628 TOTAL PERSONNEL: 9 (Civ: 9) MALE: 9 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The Central Repair Shop (CRSs) responds to maintenance tickets for the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There is 3 electricians, 4 mechanics, 1 helper and 1 lead on staff that perform a variety of duties to include minor facility maintenance, electrical work, welding, etc. There is no longer a plumber assigned to this shop and therefore no plumbing activities. Personnel are no longer responsible for the blast booths and therefore respiratory protection is no longer needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Maintenance calls-Painting-brush painting: Ethylbenzene, carbon black and crystalline silica* Personnel can use various latex/oil based paints to paint fabricated items with a brush. Sherwin William Mineral spirit paint thinner (mineral spirits 64742-88-7) -Sherwin Williams B79W10Pro Block oil primer (VM&P naphtha 64742-89-8 and crystalline silica *(quartz and cristobalite)) B31W2651 Latex White B54B11 Ind Straight Black (mineral spirits 64742-88-7, ethylbenzene* and carbon black*) B54W101 Ind Pure White (mineral spirits 64742-88-7 and ethylbenzene*) B34Y37 Safety Yellow (mineral spirits 64742-88-7 and ethylbenzene*) B54T104 Ultra Deep Base (mineral spirits 64742-88-7 and ethylbenzene*) B25W25 Block Filler White (silica quartz*) B51W20 Pro-Block Primer Sealer (cristobalite*) B51W8050 Adhesion Primer (silica quartz*) -PPG Industries 7-814 I/E Industrial Gloss oil pastel (solvent naphtha-64742-95-6) 7-815 I/E Ind gloss oil midtone (solvent naphtha-64742-95-6) 7-808 I/E Ind Nat Gloss Safety Yellow (solvent naphtha-64742-88-7 and ethylbenzene*) 7-852 I/E Rust Inhibitive Primer White(solvent naphtha-64742-88-7, ethylbenzene* and silica quartz*)	4 Mechanics	2x/year Less than 1 hour	PPE: Disposable nitrile gloves and goggles as needed. ADM: Performed in an open area (natural ventilation).	ACCEPTABLE: Based on the process description there should be no significant exposures. Crystalline silica is only a hazard if the paint is sanded and a dust is created. As long as personnel are not sanding the painted surfaces there should be no significant exposures. Personnel stated that they will sometimes use MDMC paint booths. <i>*Carbon black and crystalline silica (quartz and cristobalite) are listed carcinogens.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 10 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2285 SHOP: PW-FM CRS SHOP HAZARD PRIORITY RATING: 1		POC: Ricky Stallings PHONE: 639-5628 TOTAL PERSONNEL: 9 (Civ: 9) MALE: 9 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The Central Repair Shop (CRSs) responds to maintenance tickets for the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There is 3 electricians, 4 mechanics, 1 helper and 1 lead on staff that perform a variety of duties to include minor facility maintenance, electrical work, welding, etc. There is no longer a plumber assigned to this shop and therefore no plumbing activities. Personnel are no longer responsible for the blast booths and therefore respiratory protection is no longer needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Maintenance calls-Non routine calls: Various vapors and heavy metals to include: Hexavalent chromium*, aluminum, cadmium*, lead*, paint dust (titanium dioxide and crystalline silica*), toluene*, xylene*, hexamethylene diisocyanate, ethylbenzene, methyl ethyl ketone, diisobutyl ketone and naphthalene Personnel may receive a request to perform a specific facility maintenance call that does not fit into the normal operations such as maintenance on blast booths, paint booths, tank components etc. These types of calls are mostly contracted out however CRS may be asked to fill in. If a new request is submitted for a maintenance operation CRS is not used to performing they will contact I&E Safety office for guidance and clearance before performing.	1	As needed Up to 4 hours	PPE: Chemical resistant gloves, safety glasses and face shield and/or a respirator.	UNCERTAIN. Acceptable expected based on limited duration and personal exposure to chemicals should be minimal. However because of the uncertainty of the actual operation that will be performed, use of respiratory protection is still encouraged. Personnel should be placed in a medical certification program for respirator use (716). Half face respirator with an OV/P100 is recommended. <i>* Xylene, toluene, lead and cadmium are recognized reproductive hazards.</i> <i>* Hexavalent chromium, cadmium crystalline silica, is a recognized carcinogen.</i>
Shop operations: Work-related musculoskeletal disorders (WMSD) heavy lifting* Personnel may have to lift/move/carry heavy objects in the warehouse or on job site.	All	Varies Dispersed throughout the day	ENG: Use of hydraulic lifts. ADM: Proper lifting procedures.	WMSD RISK FACTORS: No problems reported. There is the potential for ergonomic injuries to occur; training is recommended. Continue to provide regular awareness training on the proper movement and placement of heavy components and parts. Any ergonomic-related injury should be reported to the command safety officer. <i>*Heavy lifting is a reproductive hazard.</i>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 10 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2285 SHOP: PW-FM CRS SHOP HAZARD PRIORITY RATING: 1		POC: Ricky Stallings PHONE: 639-5628 TOTAL PERSONNEL: 9 (Civ: 9) MALE: 9 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The Central Repair Shop (CRSs) responds to maintenance tickets for the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There is 3 electricians, 4 mechanics, 1 helper and 1 lead on staff that perform a variety of duties to include minor facility maintenance, electrical work, welding, etc. There is no longer a plumber assigned to this shop and therefore no plumbing activities. Personnel are no longer responsible for the blast booths and therefore respiratory protection is no longer needed.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Material movement (Forklift operations): Carbon monoxide* Larger parts are moved into the test area with a forklift. Employees have fork lift licenses, and operation is short duration.	7 with forklift license	Varies Dispersed throughout the day	ADM: Short duration.	ACCEPTABLE. No significant exposure expected based on the nature of exposure as described. Medical certification for Forklift Operators (710) is required. <i>* Carbon monoxide is a developmental reproductive hazard.</i>
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	1	Daily Up to 4 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2285 SHOP: PW-FM High Voltage Electricity SHOP HAZARD PRIORITY RATING: 2		POC: Mr. Dauro PHONE: 639-7221 TOTAL PERSONNEL: 2 (Civ: 2) (does not include Mr. Dauro) MALE: 2 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The High Voltage Electricity shop is responsible for all above ground electricity on base. Personnel can assist personnel at CRS (see individual hazard assessment).				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Electrical work: Noise* Personnel may transient hazardous noise areas to get to the work site or provide support to CRS at the MDMC.	2	As needed	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96dBA. Double hearing protection requires the use of earplugs AND muffs.	ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. <i>*Noise is a recognized developmental reproductive hazard.</i>
Electrical work: Polyvinyl chloride and electric arcing Personnel are responsible for all high voltage electricity on base and can include installing, modifying and troubleshooting equipment as needed and performing visual inspections at the main substation. This can include the use of Misty contact & circuit board cleaner (trans 1, 2-dichloroethylene and ethanol) and 30876 PCV clear cement (polyvinyl chloride). This can also include filling the SF6 gas used on the High voltage switches. This is a closed loop system.	2 (Mr. Douro can assist)	Daily Up to 7 hours	PPE: Disposable nitrile gloves during chemical use. ADM: Follows NFPA 70E rules to include lockout/tagout.	ACCEPTABLE: Based on the process description there should be no significant exposures.
Confined space entry: Oxygen deficiency Personnel may have to enter a confined space to work on electrical lines still below ground. Personnel follow all safety protocols to include continuously monitoring the area for LEL and oxygen content, having 2 personnel (one inside, one outside-watch).	2 (Mr. Douro can assist)	As needed 2x/year 2-3 hours	PPE: Hard hat and harness. ADM: Lock out/tag out.	ACCEPTABLE: Based on proper adherence to established confined space protocols.

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop	COMMAND: MCLB Installation and Environment Division	POC: Mr. Dauro	PHONE: 639-7221	
BLDG: 2285	SHOP: PW-FM High Voltage Electricity	TOTAL PERSONNEL: 2 (Civ: 2) (does not include Mr. Dauro)	MALE: 2	
SHOP HAZARD PRIORITY RATING: 2		FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. The High Voltage Electricity shop is responsible for all above ground electricity on base. Personnel can assist personnel at CRS (see individual hazard assessment).				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Material movement (Forklift operations): Carbon monoxide* Larger parts are moved into the test area with a forklift. Employees have fork lift licenses, and operation is short duration.	2	Varies Dispersed throughout the day	ADM: Short duration.	ACCEPTABLE. No significant exposure expected based on the nature of exposure as described. Medical certification for Forklift Operators (710) is required. <i>* Carbon monoxide is a developmental reproductive hazard.</i>
Shop operations: Heat stress* and UV radiation* Personnel spend 50-80% of the time outside or in spaces without air condition.	All	Daily Up to 8 hours	PPE: Sunscreen (>30 SPF), UV protective sunglasses. ADM: Work/rest cycles based on the flag condition.	ACCEPTABLE: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition. Personnel should be provided PPE to protect against UV radiation including sunglasses. Personnel exposed to UV radiation may develop pinguecula or pterygium (growths on the eye's cornea). Personnel exposed to UV radiation are more likely to develop skin cancer. Personnel should be encouraged to hydrate while working outside. Personnel are encouraged to seek shelter in the air conditioned areas routinely throughout the day especially during the high heat season. <i>*High heat is considered a reproductive hazard.</i> <i>* UV radiation is a recognized carcinogen.</i>
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5500 SHOP: PW-FM HVAC/Utilities SHOP HAZARD PRIORITY RATING: 2		POC: Mr. Cox PHONE: 639-6203 TOTAL PERSONNEL: 6 (Civ: 6) MALE: 6 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop provides preventative maintenance on all HVAC and water for the base. One person is responsible for maintaining the digital directive control (DDC) computer system. This system controls all of the HVAC systems on base. Under the HVAC section there are three personnel that provide various maintenance calls throughout the base. Two personnel are responsible for the buildings located on base proper and two personnel are responsible for the buildings in the LOGCOM's Marine Depot Maintenance Command (MDMC). Under the Utilities section there is one personnel that is responsible for water maintenance on base proper and include the well houses, pool and boilers.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Various shop operations: Noise* 1. HVAC personnel use various power tools and work in industrial areas outside and inside the MDMC. Personnel are exposed to hazardous noise on a routine basis. 2. Utilities personnel perform daily checks of the well houses and boiler houses. 3. One person manages the DDC system and is mostly in the office; however, he may have to go into HVAC rooms periodically to check monitors.	1. 3 2. 1 3. 1	1. Daily Up to 8 hours 2. Daily Up to 8 hours 3. As needed Up to 3 hours	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.	1-2. UNACCEPTABLE: Based on sampling. Personnel may be exposed above the DoD standard of 85 dBA. See attachment (4) for sound level measurements and dosimetry results. Medical surveillance for Noise (503) is required. 3. ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. <i>*Noise is a recognized developmental reproductive hazard.</i>
Shop operations: Heat stress* and UV radiation* Personnel spend 50-80% of the time outside or in spaces without air condition.	4	Daily Up to 8 hours	PPE: Sunscreen (>30 SPF), UV protective sunglasses. ADM: Work/rest cycles based on the flag condition.	ACCEPTABLE: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition. Personnel should be provided PPE to protect against UV radiation including sunglasses. Personnel exposed to UV radiation may develop pinguecula or pterygium (growths on the eye's cornea). Personnel exposed to UV radiation are more likely to develop skin cancer. Personnel should be encouraged to hydrate while working outside. Personnel are encouraged to seek shelter in the air conditioned areas routinely throughout the day especially during the high heat season. <i>*High heat is considered a reproductive hazard.</i> <i>* UV radiation is a recognized carcinogen.</i>

INDIVIDUAL HAZARD ASSESSMENT			DATE: 9 May 2018	
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5500 SHOP: PW-FM HVAC/Utilities SHOP HAZARD PRIORITY RATING: 2			POC: Mr. Cox PHONE: 639-6203 TOTAL PERSONNEL: 6 (Civ: 6) MALE: 6 FEMALE: 0	
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop provides preventative maintenance on all HVAC and water for the base. One person is responsible for maintaining the digital directive control (DDC) computer system. This system controls all of the HVAC systems on base. Under the HVAC section there are three personnel that provide various maintenance calls throughout the base. Two personnel are responsible for the buildings located on base proper and two personnel are responsible for the buildings in the LOGCOM's Marine Depot Maintenance Command (MDMC). Under the Utilities section there is one personnel that is responsible for water maintenance on base proper and include the well houses, pool and boilers.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
HVAC repair and maintenance: Petroleum distillate, polyvinyl chloride and dust Personnel respond to maintenance tickets and can include: changing AC filters, cleaning AC coils, refilling Freon in AC units or fan motor repairs. 1. Personnel use Cal-brite (Ammonium Bifluoride) to clean AC units outside and Coil Klean (Isobutane) for inside. Personnel can use LPS3 Heavy duty rust inhibitor (petroleum distillate* 64742-54-7) or PB blaster (petroleum distillates 64742-65-0) as needed to lubricate parts or Mystic JT-6 Multipurpose grease No 2 (SDS does not list any hazardous ingredients) as a lubricant on motor and fan bearings. 2. Personnel may use Oatey PVC products to repair drain pipes on AC units: 30795 PVC cleaner (methyl ethyl ketone and alcohol) and 30876 PCV clear cement (polyvinyl chloride). 3. Personnel change out A/C filters.	3	1. Up to 5 units daily 15 minutes per unit 2. 2-3x/year 1 hour 3. As needed Less than 5 minutes	PPE: Disposable nitrile gloves and goggles as needed.	ACCEPTABLE: Based on duration of exposure and the process description there should be no significant exposures. See attachment (5) for air sample results.
Refrigerator recovery/reclamation: Freon Personnel hook a recovery system (closed loop) to the refrigerator and drain the Freon into a recovery tank. Some of the refrigerators are then disposed or refilled with 410A or R22.	3	5/year 30 minutes per fridge	ENG: Closed loop system. PPE: Gloves and safety glasses/goggles.	ACCEPTABLE: Based on the process description there should be no significant exposures.

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SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop provides preventative maintenance on all HVAC and water for the base. One person is responsible for maintaining the digital directive control (DDC) computer system. This system controls all of the HVAC systems on base. Under the HVAC section there are three personnel that provide various maintenance calls throughout the base. Two personnel are responsible for the buildings located on base proper and two personnel are responsible for the buildings in the LOGCOM's Marine Depot Maintenance Command (MDMC). Under the Utilities section there is one personnel that is responsible for water maintenance on base proper and include the well houses, pool and boilers.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Water distribution maintenance: Liquid chlorine, fluoride and hydrochloric acid 1. Personnel monitor all of the well houses on base; this includes taking readings and performing a Chlorine test daily. Personnel use liquid chlorine and fluoride in the wells. These are on a closed loop system with minimal contact unless performing maintenance on the pumps/hoses. Personnel may have to add salt to water softeners. Personnel use Mystic JT-6 Multipurpose grease No 2 (SDS does not list any hazardous ingredients) as a lubricant when needed. 2. Personnel are responsible for maintaining the base pool. The main pool is on a salt water system (sodium chloride) and chlorine tablets and hydrochloric acid as back up when needed to adjust the pH of the pool. The splash pad uses liquid chlorine and hydrochloric acid. These are on a closed loop system with minimal contact unless performing maintenance on the pumps/hoses.	1	Daily Up to 4 hours	PPE: Disposable nitrile gloves or thick reusable butyl rubber gloves and goggles, as needed.	ACCEPTABLE: Based on the process description there should be no significant exposures. Liquid chlorine, liquid fluoride and hydrochloric acid are very corrosive. Use caution when contacting liquids.
Material movement (Forklift operations): Carbon monoxide* Larger parts are moved with a forklift. Employees have fork lift licenses, and operation is short duration.	2	Varies Dispersed throughout the day	ADM: Short duration.	ACCEPTABLE. No significant exposure expected based on the nature of exposure as described. Medical certification for Forklift Operators (710) is required. <i>* Carbon monoxide is a developmental reproductive hazard.</i>

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RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5500 SHOP: PW-FM HVAC/Utilities SHOP HAZARD PRIORITY RATING: 2		POC: Mr. Cox PHONE: 639-6203 TOTAL PERSONNEL: 6 (Civ: 6) MALE: 6 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop provides preventative maintenance on all HVAC and water for the base. One person is responsible for maintaining the digital directive control (DDC) computer system. This system controls all of the HVAC systems on base. Under the HVAC section there are three personnel that provide various maintenance calls throughout the base. Two personnel are responsible for the buildings located on base proper and two personnel are responsible for the buildings in the LOGCOM's Marine Depot Maintenance Command (MDMC). Under the Utilities section there is one personnel that is responsible for water maintenance on base proper and include the well houses, pool and boilers.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Shop operations: Work-related musculoskeletal disorders (WMSD)-heavy lifting* Personnel may have to lift/move/carry heavy objects in the warehouse or on job site.	4	Varies Dispersed throughout the day	ENG: Use of hydraulic lifts. ADM: Proper lifting procedures.	WMSD RISK FACTORS: No problems reported. There is the potential for ergonomic injuries to occur; training is recommended. Continue to provide regular awareness training on the proper movement and placement of heavy components and parts. Any ergonomic-related injury should be reported to the command safety officer. <i>*Heavy lifting is a developmental reproductive hazard.</i>
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	2	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM - Administrative Controls PPE - Personal Protective Equipment ISO - Isolation DV - Dilution Ventilation ENG - Engineering Controls LV - Local Ventilation				

INDIVIDUAL HAZARD ASSESSMENT			DATE: 9 May 2018	
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5500 SHOP: PW-FM HVAC/Utilities SHOP HAZARD PRIORITY RATING: 2			POC: Mr. Cox PHONE: 639-6203 TOTAL PERSONNEL: 6 (Civ: 6) MALE: 6 FEMALE: 0	
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop provides preventative maintenance on all HVAC and water for the base. One person is responsible for maintaining the digital directive control (DDC) computer system. This system controls all of the HVAC systems on base. Under the HVAC section there are three personnel that provide various maintenance calls throughout the base. Two personnel are responsible for the buildings located on base proper and two personnel are responsible for the buildings in the LOGCOM's Marine Depot Maintenance Command (MDMC). Under the Utilities section there is one personnel that is responsible for water maintenance on base proper and include the well houses, pool and boilers.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY / DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes:</p> <p>ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL).</p> <p>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.</p> <p>UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL.</p> <p>WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress.</p> <p>SKIN – The material poses a skin absorption hazard.</p> <p>REPRO HAZARD – The material is a Navy-recognized reproductive hazard.</p> <p>CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.</p>				

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2600 SHOP: PW-FM IWTP SHOP HAZARD PRIORITY RATING: 2		POC: John Fondren PHONE: 639-7152 TOTAL PERSONNEL: 4 (Civ: 4) MALE: 4 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop is responsible for treating all of the waste water discharged from the LOGCOM's Marine Depot Maintenance Command (MDMC). Workers in this area make hourly rounds to monitor waste tanks, collect samples and perform laboratory testing.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Waste water treatment: Noise* Personnel perform hourly rounds to monitor waste tanks. This can include entering the pump room that is currently designated as a hazardous noise area. At the time of the survey noise was minimal; however, it was stated that the bearings can break and cause louder noises.	4	7-8x/day 10 minutes each time	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.	ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. See attachment (4) for sound level measurement results. <i>*Noise is a recognized developmental reproductive hazard.</i> Note: The water treatment plant is undergoing a major renovation and therefore is an active construction site. Personnel should be aware of the additional hazards as needed.
Jar test: sodium hydroxide and ferrous chloride Samples are taken from the surge tank and the secondary clarifier. pH is measured with a pH probe. Sulfuric acid is added as needed to adjust the pH to 3.0-4.0. Jar is placed under a stirrer and allowed to stir for about 5 minutes. While stirring approximately 8 drops of 50% sodium hydroxide and 1 mL of 3430 polymer is added. Solids are allowed to precipitate and examined for color. As long as the water is clear no further action is needed. However, if this does not occur, the test is repeated with the addition of ferrous chloride to the test in drop amounts and personnel adding in large amounts from the tanks to the filtration system.	4	7-8x/day 5 minutes each time	PPE: Safety glasses and nitrile gloves as needed.	ACCEPTABLE: No significant exposure expected based on the nature of exposure as described.

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RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2600 SHOP: PW-FM IWTP SHOP HAZARD PRIORITY RATING: 2		POC: John Fondren PHONE: 639-7152 TOTAL PERSONNEL: 4 (Civ: 4) MALE: 4 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop is responsible for treating all of the waste water discharged from the LOGCOM's Marine Depot Maintenance Command (MDMC). Workers in this area make hourly rounds to monitor waste tanks, collect samples and perform laboratory testing.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Waste water treatment: sulfuric acid, ferrous chloride, eye and foot hazards</p> <p>Waste water comes in and goes through surge tank 1 or 2. At both of these points the water is tested for pH and sulfuric acid and ferrous chloride is added to increase or decrease the pH for a target range of 3-4. Water then goes to the neutralization tank where water can be treated with sodium hydroxide to maintain a pH of 11-11.5 and Chemrite 3430 is added to the water. Water then goes through a primary clarifier and then to the city plant as "clean water".</p> <p>Personnel can also add "special waste" to the stream. This is raw material that is not disposed of downstream; however, it is collected and delivered to the plant separated. The plant has designated amounts of this waste that can be added at any given time to the waste stream and still maintain the required pH.</p> <p>Personnel can also use Chemrite CR-493 Scale and deposit control (1-hydroxyethane-1,1-diphosphonic acid) to clean the side of the clarifier.</p>	4	7-8x/day 10 minutes each time	PPE: Safety glasses and steel-toed shoes (when required). ENG: Closed loop system.	<p>ACCEPTABLE: No significant exposure expected based on the nature of exposure as described.</p> <p>Note: The water treatment plant is undergoing a major renovation and therefore is an active construction site. Personnel should be aware of the additional hazards as needed.</p>
<p>Treatment of the solid waste: Eye and foot hazards</p> <p>The solid left over from the treatment of the water is treated with Chemrite 4244 flocculant (amide) and then ran through a belt press to make solid waste cakes. 4244 is a powdery substance added to the system to assist with the removal of solids.</p>	4	7-8x/day 10 minutes each time	PPE: Safety glasses and steel-toed shoes (when required).	<p>ACCEPTABLE: No significant exposure expected based on the nature of exposure as described.</p>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2600 SHOP: PW-FM IWTP SHOP HAZARD PRIORITY RATING: 2		POC: John Fondren PHONE: 639-7152 TOTAL PERSONNEL: 4 (Civ: 4) MALE: 4 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop is responsible for treating all of the waste water discharged from the LOGCOM's Marine Depot Maintenance Command (MDMC). Workers in this area make hourly rounds to monitor waste tanks, collect samples and perform laboratory testing.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Equipment maintenance: Zinc, tetrahydrofuran (THF) 109-99-9, methyl ethyl ketone and cyclohexanone Personnel uses CITGO Lithoplex® MP Grease No. 2 (Zinc) to grease bearings on the belt press and conveyor every 80 hours of use or as needed. Personnel can also add hydraulic oil (CITGO Clarion Food Grade A/W Hydraulic Oil 32) as needed. Personnel may also use IPS Weld on 724 CPVC cement (tetrahydrofuran (THF) 109-99-9, methyl ethyl ketone and cyclohexanone) as needed to fix pipes.	4	As needed.	PPE: Safety glasses and nitrile gloves as needed.	ACCEPTABLE: No significant exposure expected based on the nature of exposure as described.
Waste water treatment: Heat stress* and UV radiation* Personnel walk the grounds to perform tank checks and take samples. Personnel can be exposed to the elements during this time.	4	7-8x/day 10 minutes each time	PPE: Sunscreen (>30 SPF), UV protective sunglasses. ADM: Work/rest cycles based on the flag condition.	ACCEPTABLE: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition. Personnel should be provided PPE to protect against UV radiation including sunglasses. Personnel exposed to UV radiation may develop pinguecula or pterygium (growths on the eye's cornea). Personnel exposed to UV radiation are more likely to develop skin cancer. Personnel should be encouraged to hydrate while working outside. Personnel are encouraged to seek shelter in the air conditioned areas routinely throughout the day especially during the high heat season. <i>*High heat is considered a reproductive hazard.</i> <i>* UV radiation is a recognized carcinogen.</i>

INDIVIDUAL HAZARD ASSESSMENT			DATE: 8 May 2018	
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2600 SHOP: PW-FM IWTP SHOP HAZARD PRIORITY RATING: 2			POC: John Fondren PHONE: 639-7152 TOTAL PERSONNEL: 4 (Civ: 4) MALE: 4 FEMALE: 0	
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop is responsible for treating all of the waste water discharged from the LOGCOM's Marine Depot Maintenance Command (MDMC). Workers in this area make hourly rounds to monitor waste tanks, collect samples and perform laboratory testing.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Treatment of the solid waste: Work-related musculoskeletal disorders (WMSD)- heavy lifting* Personnel may have to lift/move/carry heavy objects to include 50 pound bags of Chemrite.	4	1-2x/week Less than 5 minutes	ENG: Carts and dollies. ADM: Proper lifting procedures.	WMSD RISK FACTORS: No problems reported. There is the potential for ergonomic injuries to occur; training is recommended. Continue to provide regular awareness training on the proper movement and placement of heavy components and parts. Any ergonomic-related injury should be reported to the command safety officer. <i>*Heavy lifting is a developmental reproductive hazard.</i>
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	4	Daily Up to 6 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				

INDIVIDUAL HAZARD ASSESSMENT			DATE: 8 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 2600 SHOP: PW-FM IWTP SHOP HAZARD PRIORITY RATING: 2			POC: John Fondren PHONE: 639-7152 TOTAL PERSONNEL: 4 (Civ: 4) MALE: 4 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section. This shop is responsible for treating all of the waste water discharged from the LOGCOM's Marine Depot Maintenance Command (MDMC). Workers in this area make hourly rounds to monitor waste tanks, collect samples and perform laboratory testing.					
OPERATIONS AND POTENTIAL HEALTH HAZARDS		NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes: ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (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, on average, to be exposed above the selected OEL. WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress. SKIN – The material poses a skin absorption hazard. REPRO HAZARD – The material is a Navy-recognized reproductive hazard. CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.					

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5500 SHOP: PW-FM Maintenance SHOP HAZARD PRIORITY RATING: 2		POC: Maintenance Supervisor Mr. Cox and section Leads (listed below) PHONE: 639-5628 TOTAL PERSONNEL: 8 (Civ: 8) MALE: 8 FEMALE: 0		
<p>SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section and includes Electrical, Plumbing, Locksmith, Signs and Roads & Grounds. Personnel are responsible for responding to maintenance tickets for 10 buildings on base. Personnel are not responsible for buildings inside the LOGCOM's Marine Depot Maintenance Command (MDMC) area.</p> <p>There are three main areas of responsibility: Maintenance (Mr. Hitt and Mr. Alward and 2 Civ Males), Roads & Grounds (Mr. Keller and 2 Civ males) and Locks & Signs (Mr. Graves). The maintenance section includes a Maintenance tech and an electrician. Roads & Grounds includes a laborer and a tractor operator.</p> <p>Personnel are no longer painting or applying pesticides. Most work is contracted out.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Various shop operations: Noise* 1. Preventative maintenance work: The maintenance mechanic performs various jobs as called for in maintenance tickets. This can include working in various industrial hazardous noise areas for long periods of time. 2. Road & grounds work: The laborer performs various jobs as called for in maintenance tickets. This can include the use of various material handling equipment. 3. Road & grounds tractor operations: This person performs various jobs as called for in maintenance tickets. This can include the use of various material handling equipment. 4. Making keys: Personnel are responsible for all locks and keys on base. This includes using a power key cutter.	1. 3 2. 1 3. 1 4. 1	1. Daily Up to 8 hours 2. Daily Up to 8 hours 3. Daily Up to 8 hours 4. 10 keys/week	PPE: Single hearing protection is required for noise levels at or above 85 dBA. Double hearing protection is required for noise levels at or above 96 dBA.	1-3. UNACCEPTABLE: Based on sampling. Personnel may be exposed above the DoD standard of 85 dBA. Medical surveillance for Noise (503) is required. 4. ACCEPTABLE: Personnel exposure to noise in excess of the standard is not expected based on the duration and frequency of the operation. See attachment (4) for sound level measurements and dosimetry results. <i>*Noise is a recognized developmental reproductive hazard.</i>
Electrical repair: Low level electricity The electrician performs various jobs as called for in maintenance tickets. This can include minor electrical work to include installing/moving outlets.	1	Daily Up to 8 hours	PPE: Safety glasses and steel-toed shoes as needed.	ACCEPTABLE: No significant exposure expected based on the nature of exposure as described.

INDIVIDUAL HAZARD ASSESSMENT		DATE:	9 May 2018	
RECORDED BY:	Whitney Bishop	POC:	Maintenance Supervisor Mr. Cox and section Leads (listed below)	
COMMAND:	MCLB Installation and Environment Division	PHONE:	639-5628	
BLDG:	5500	TOTAL PERSONNEL:	8 (Civ: 8)	
SHOP:	PW-FM Maintenance	MALE:	8	
SHOP HAZARD PRIORITY RATING:	2	FEMALE:	0	
<p>SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section and includes Electrical, Plumbing, Locksmith, Signs and Roads & Grounds. Personnel are responsible for responding to maintenance tickets for 10 buildings on base. Personnel are not responsible for buildings inside the LOGCOM's Marine Depot Maintenance Command (MDMC) area.</p> <p>There are three main areas of responsibility: Maintenance (Mr. Hitt and Mr. Alward and 2 Civ Males), Roads & Grounds (Mr. Keller and 2 Civ males) and Locks & Signs (Mr. Graves). The maintenance section includes a Maintenance tech and an electrician. Roads & Grounds includes a laborer and a tractor operator.</p> <p>Personnel are no longer painting or applying pesticides. Most work is contracted out.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>Road & grounds tractor operations: Carbon monoxide* , UV radiation* and heat stress*</p> <p>The tractor operator performs various jobs as called for in maintenance tickets. This can include using a back hoe, grade all material handler, etc. and working outdoors for extended periods of time. Most equipment has an enclosed air-conditioned cab.</p>	1	<p>Enclosed cab with A/C-30 hours week</p> <p>No cab or A/C-10 hours week</p>	<p>ADM: Performed outdoors (natural ventilation)</p> <p>PPE: Sunscreen (>30 SPF), UV protective sunglasses.</p> <p>ADM: Work/rest cycles based on the flag condition.</p>	<p>ACCEPTABLE for carbon monoxide and UV radiation: No significant exposure expected based on the nature of exposure as described to carbon monoxide.</p> <p>ACCEPTABLE for heat stress: Based on exposure to heat with proper adherence to established Navy protocols. Water and work/rest breaks should be adhered to based on the flag condition.</p> <p>Personnel should be provided PPE to protect against UV radiation including sunglasses. Personnel exposed to UV radiation may develop pinguecula or pterygium (growths on the eye's cornea). Personnel exposed to UV radiation are more likely to develop skin cancer. Personnel should be encouraged to hydrate while working outside. Personnel are encouraged to seek shelter in the air conditioned areas routinely throughout the day especially during the high heat season.</p> <p>Medical surveillance for Forklift Operator/Material Handling Equipment (710) is required.</p> <p><i>*High heat and carbon monoxide are developmental reproductive hazards.</i></p> <p><i>* UV radiation is a recognized carcinogen.</i></p>

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5500 SHOP: PW-FM Maintenance SHOP HAZARD PRIORITY RATING: 2		POC: Maintenance Supervisor Mr. Cox and section Leads (listed below) PHONE: 639-5628 TOTAL PERSONNEL: 8 (Civ: 8) MALE: 8 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section and includes Electrical, Plumbing, Locksmith, Signs and Roads & Grounds. Personnel are responsible for responding to maintenance tickets for 10 buildings on base. Personnel are not responsible for buildings inside the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There are three main areas of responsibility: Maintenance (Mr. Hitt and Mr. Alward and 2 Civ Males), Roads & Grounds (Mr. Keller and 2 Civ males) and Locks & Signs (Mr. Graves). The maintenance section includes a Maintenance tech and an electrician. Roads & Grounds includes a laborer and a tractor operator. Personnel are no longer painting or applying pesticides. Most work is contracted out.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Road & grounds work: Petroleum distillates The laborer performs various jobs as called for in maintenance tickets. This can include: Weed eating, using a blower and assisting other shops. This can also include the use of PB blaster (petroleum distillates 64742-65-0)	1	2-3x/month 1-5 minutes	PPE: Safety glasses.	ACCEPTABLE: No significant exposure expected based on the nature of exposure as described.
Spray painting: Naphtha Personnel will use Aervoe Survey Marking Paint – Aerosol (VM & P Naphtha 8032-32-4) to mark underground pipes and electrical lines.	1	2-3x/month 1-5 minutes	PPE: Safety glasses.	ACCEPTABLE: No significant exposure expected based on the nature of exposure as described.
Making signs: Class 2 laser Personnel create several different types of signs and labels using a Gravograph LS 900 (enclosed Class 2 laser) and plotter. Personnel are also responsible for installing/hanging signs and labels.	1	As needed	ENG: Enclosed system.	ACCEPTABLE: No significant exposure expected based on the nature of exposure as described.
Making keys: Work-related musculoskeletal disorders (WMSD)-forceful exertion Personnel are responsible for all locks and keys on base. This includes using a power key cutter and a manual key cutter.	1	Avg: 5 keys/day Worst case: 25 keys/day 7 punches/key	ADM: Work/rest cycles.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough.

INDIVIDUAL HAZARD ASSESSMENT		DATE: 9 May 2018		
RECORDED BY: Whitney Bishop COMMAND: MCLB Installation and Environment Division BLDG: 5500 SHOP: PW-FM Maintenance SHOP HAZARD PRIORITY RATING: 2		POC: Maintenance Supervisor Mr. Cox and section Leads (listed below) PHONE: 639-5628 TOTAL PERSONNEL: 8 (Civ: 8) MALE: 8 FEMALE: 0		
SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section and includes Electrical, Plumbing, Locksmith, Signs and Roads & Grounds. Personnel are responsible for responding to maintenance tickets for 10 buildings on base. Personnel are not responsible for buildings inside the LOGCOM's Marine Depot Maintenance Command (MDMC) area. There are three main areas of responsibility: Maintenance (Mr. Hitt and Mr. Alward and 2 Civ Males), Roads & Grounds (Mr. Keller and 2 Civ males) and Locks & Signs (Mr. Graves). The maintenance section includes a Maintenance tech and an electrician. Roads & Grounds includes a laborer and a tractor operator. Personnel are no longer painting or applying pesticides. Most work is contracted out.				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
Material movement (Forklift operations): Carbon monoxide* Larger parts are moved into the test area with a forklift. Employees have fork lift licenses, and operation is short duration.	2	Varies Dispersed throughout the day	ADM: Short duration.	ACCEPTABLE. No significant exposure expected based on the nature of exposure as described. Medical certification for Forklift Operators (710) is required. <i>* Carbon monoxide is a developmental reproductive hazard.</i>
Professional/administrative tasks: Work-related musculoskeletal disorders (WMSD)-static postures Personnel work inside at an office setting to include the use of a computer. Personnel may sit for long periods of time at the desk.	3	Daily Up to 8 hours	ADM: Stretch breaks to avoid long periods in the same posture.	WMSD RISK FACTORS: No ergonomic-related injuries/problems directly related to work were reported during the survey walkthrough. Personnel should ensure that workstations are set up correctly (example included in attachment (8)) to help prevent WMSD issues from occurring. Public Safety Division's ergonomic lead, Ms. Donna Chalmers, 229-639-6215, can address specific concerns with a full office evaluation and/or provide a more definitive guide, "Creating the Ideal Computer Workstation: A Step-by-Step Guide", for conducting a self-assessment. Any ergonomic-related injury should be reported to the command safety officer.
1. USE THE FOLLOWING CONTROL CODES: ADM – Administrative Controls PPE – Personal Protective Equipment ISO – Isolation DV – Dilution Ventilation ENG – Engineering Controls LV – Local Ventilation				

INDIVIDUAL HAZARD ASSESSMENT			DATE:	9 May 2018
RECORDED BY:	Whitney Bishop		POC:	Maintenance Supervisor Mr. Cox and section Leads (listed below)
COMMAND:	MCLB Installation and Environment Division		PHONE:	639-5628
BLDG:	5500		TOTAL PERSONNEL:	8 (Civ: 8)
SHOP:	PW-FM Maintenance		MALE:	8
SHOP HAZARD PRIORITY RATING:	2		FEMALE:	0
<p>SHOP OPERATIONS: This shop is part of the Public Works Facility Maintenance Section and includes Electrical, Plumbing, Locksmith, Signs and Roads & Grounds. Personnel are responsible for responding to maintenance tickets for 10 buildings on base. Personnel are not responsible for buildings inside the LOGCOM's Marine Depot Maintenance Command (MDMC) area.</p> <p>There are three main areas of responsibility: Maintenance (Mr. Hitt and Mr. Alward and 2 Civ Males), Roads & Grounds (Mr. Keller and 2 Civ males) and Locks & Signs (Mr. Graves). The maintenance section includes a Maintenance tech and an electrician. Roads & Grounds includes a laborer and a tractor operator.</p> <p>Personnel are no longer painting or applying pesticides. Most work is contracted out.</p>				
OPERATIONS AND POTENTIAL HEALTH HAZARDS	NO. OF WKRS	FREQUENCY/ DURATION OF EXPOSURE	CONTROLS (1)	EXPOSURE ASSESSMENT (2)
<p>2. EXPOSURE ASSESSMENT refers to "Potential" exposure and does not take PPE such as respiratory protection or hearing protection into account. Use the following exposure codes:</p> <p>ACCEPTABLE – One where the IH will not expect the similar exposure group (SEG), on average, to be above the selected occupational exposure limit (OEL).</p> <p>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.</p> <p>UNACCEPTABLE – One where the IH will expect the SEG, on average, to be exposed above the selected OEL.</p> <p>WMSD RISK FACTORS – Work-related musculoskeletal disorder (WMSD) risks include but are not limited to force, repetition, awkward or static postures, vibration and contact stress.</p> <p>SKIN – The material poses a skin absorption hazard.</p> <p>REPRO HAZARD – The material is a Navy-recognized reproductive hazard.</p> <p>CARCINOGEN – The material contains greater than 0.1% of an OSHA, ACGIH, IARC, OR NTP-recognized or suspected carcinogen.</p>				

**SUMMARY OF MEDICAL SURVEILLANCE RECOMMENDATIONS
 INSTALLATION AND ENVIRONMENT DIVISION
 MARINE CORPS LOGISTICS BASE ALBANY, GA
 REPORT NUMBER: AL18014
 MAY 2018**

Ref: (a) Medical Surveillance Procedures Manual and Medical Matrix, Edition 12, NMCPHC-TM OM 6260
 (<http://www.med.navy.mil/sites/nmcphc/occupational-and-environmental-medicine/oemd/Pages/medical-surveillance-certification.aspx>).

The following table summarizes identified medical surveillance recommendations.

WORKCENTER	WORK PROCESSES	MEDICAL SURVEILLANCE	ESTIMATED # OF PERSONS
Environmental Branch-Compliance	Material movement (Forklift operations)	Forklift operator/material handling equipment (710)	3
	Cleaning bullet trap and Emergency Response	Respirator Users Certification Exam (716)	1
	Emergency Response		2
Environmental Branch-Natural Resources	Weapons Qualifications-Game warden	Noise (503)	0
	Material movement (Forklift operations)	Forklift operator/material handling equipment (710)	2
Environmental Branch-Pollution Prevention	Material movement (Forklift operations)	Forklift operator/material handling equipment (710)	4
	Cleaning bullet trap and Emergency Response	Respirator Users Certification Exam (716)	1
	Emergency Response		2
Housing Branch-Transient Housing	Housekeeping and Laundry	Blood Borne Pathogen Program (178)	7 (only 7 performing the tasks however 11 are enrolled)
Public Works Branch	Weapons Qualifications-Marine on staff	Noise (503)	2
PW-FM Boiler	Boiler checks	Noise (503)	5
PW-FM CRS	Various Maintenance operations in the MDMC area	Noise (503)	9
	Various Maintenance operations involving blast booths, paint booths etc.	Respirator Users Certification Exam (716)	1
	Material movement (Forklift operations)	Forklift operator/material handling equipment (710)	7
PW-FM High Voltage Electricity	Material movement (Forklift operations)	Forklift operator/material handling equipment (710)	2
PW-FM HVAC/Water	HVAC and Utilities work	Noise (503)	4
	Material movement (Forklift operations)	Forklift operator/material handling equipment (710)	2

WORKCENTER	WORK PROCESSES	MEDICAL SURVEILLANCE	ESTIMATED # OF PERSONS
PW-FM Maintenance	Facility Maintenance	Noise (503)	3
	Roads and grounds work (this includes the laborer and tractor operator)	Noise (503)	2
	Roads and grounds tractor operations	Forklift operator/material handling equipment (710)	1
	Material movement (Forklift operations)	Forklift operator/material handling equipment (710)	2

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 be routinely exposed to workplace concentrations at or above 50% of applicable OSHA standards or action levels established by Navy instruction or Federal regulation. Medical certification is required by specific Navy or Federal directive where a certain degree of physical fitness has been judged as necessary for a component of the job (i.e. respirator use) or the job itself (i.e. forklift operators or security guards). Governing references regarding certifications should be followed. Scheduling of these personnel for examination is to be accomplished through the Occupational Medicine.

2. New Medical Surveillance Requirements: The Supervisor's Medical Surveillance and Certification Exam Referral form (SECNAV 5100.1T) is required to be filled out prior to personnel visiting Occupational Medicine for medical surveillance exams (https://navalforms.documentservices.dla.mil/formsDir/_SECNAV_5100_1T_10914.pdf).

**NOISE SURVEY WITH HEARING PROTECTION REQUIREMENTS
AND PERSONAL NOISE SAMPLING RESULTS SUMMARY
INSTALLATION AND ENVIRONMENT DIVISION
MARINE CORPS LOGISTICS BASE ALBANY, GA
REPORT NUMBER: AL18014
MAY 2018**

1. BUMED NOTICE 6260, 6 April 2018, directs the Navy to follow the Department of Defense Hearing Conservation Program guidance provided in DoD Instruction 6055.12, 3 December 2010. This changed the noise levels for which single and double hearing protection are required, the calculated protection factor or noise reduction rating (NRR) for devices used, and the way in which personal exposure dosimetry data is calculated. Areas requiring hearing protection should be appropriately labeled according to DoD requirements. Personnel should also be trained to subjectively identify “noise hazardous” conditions that may be encountered throughout the command/shop. In general, if personnel must raise their voice or shout to be heard over a noise source by a colleague standing two feet or less away, they are in a noise hazardous condition. Personnel should know to wear single hearing protection whenever such conditions are encountered.

2. The following table identifies spaces, work tasks and equipment that require the use of hearing protection. These measurements were taken at Installation and Environmental Division during the current or previous industrial hygiene (IH) survey. All personnel working in the area or performing the identified tasks that are exposed to sound pressure levels of **85 dB(A)** and greater must use single hearing protection. Personnel exposed to sound pressure levels of **96 dB(A)** and greater require the use of double hearing protection, as indicated by the word “Double” in the “Level of Hearing Protection Required” column. The hearing protective devices used must meet the requirements of standard to reduce the noise attenuation below 85 dBA.

IDENTIFIED NOISE HAZARD AREA, OPERATIONS AND EQUIPMENT					
RESPONSIBLE WORKCENTER	SPACE	WORK TASK AND/OR CONDITIONS	RANGE OF MEASURED SOUND PRESSURE LEVELS (dBA)	NOISE RADIUS (FT)	HEARING PROTECTION REQUIRED
Environmental Branch-Pollution Prevention	Recycling Center	Recycling: Use of cardboard bailer	67-72 Peaks 84	N/A	None
	Recycling Center	Recycling: Use of aluminum can crusher	80-99.8	5ft	Double
Environmental Branch-Compliance	Recycling Center	Hazardous waste disposal: Use of aerosol paint can crusher	75 at crusher	N/A	None
	Recycling Center	Hazardous waste disposal: Use of oil filter crusher	70-83 Peaks at end 91	5ft	Single
PW-FM Boiler	Bldg 2210	Air compressors	86.7-92	Not determined	Single
	Bldg 2210	Boiler tanks	84.8-87	Not determined	Single

IDENTIFIED NOISE HAZARD AREA, OPERATIONS AND EQUIPMENT					
RESPONSIBLE WORKCENTER	SPACE	WORK TASK AND/OR CONDITIONS	RANGE OF MEASURED SOUND PRESSURE LEVELS (dBA)	NOISE RADIUS (FT)	HEARING PROTECTION REQUIRED
PW-FM Boiler (cont.)	Bldg 2210	Boiler Room Office	71-73	N/A	None
	Steam Generator Rm Bldg 2299	Steam generator	80	N/A	None
	Steam Generator Rm Bldg 2299	Boiler tanks	82	N/A	None
	Steam Generator Rm Bldg 2299	Exhaust fans	75	N/A	None
	Methane Generator Rm Bldg 2299	Methane generators	104-114	Not determined	Double
	Methane Generator Rm Bldg 2299	Exhaust fans	75	N/A	None
	Generator Rm Bldg 2299	Middle of room	64	N/A	None
	Electric Rm Bldg 2299	Middle of room	70	N/A	None
	Outside Bldg 2299	Heat Exchanger-outdoors	89	Not determined	Single
PW-FM IWTP	Pump House	Pump 1 and 2 at motor	90	Standing position	Double
		Pump 1 and 2 at standing position	83	N/A	None
		Pump 3 at motor	84	N/A	None
		Pump 3 at standing position	75	N/A	None
		Panel on first floor inside pump room	72	N/A	None
PW-FM HVAC/Utilities	Well house 3 Bldg 1466	Right next to the pumps	85-87	The building	Single
		At door ways	83-84	N/A	None
PW-FM-Maintenance	Outside	Roads and Grounds operations: Use of jackhammer crane (ground crew: 3-5 ft away from crane)	86-93	Not determined	Single
	Outside	Roads and Grounds operations: Idle jackhammer crane (ground crew)	70-82	N/A	None
	Outside	STIHL BR 600 Magnum backpack blower	85-103	Not determined	Double

3. The personal sample results listed below indicated some shops have exposures that exceeded the DoD occupational exposure limit (OEL).

I & E DIV ENVIRONMENTAL BRANCH-POLLUTION PREVENTION PERSONNEL NOISE SAMPLING RESULTS				
DATE SAMPLE #	ACTIVITY	EXPOSURE LIMIT	MEASURED TWA EXPOSURE	RESULT
23Sept 15 ND15079	Recycling tasks (use of baler and crusher)	85	85	At DoD OEL
23Sept 15 ND15078	Recycling tasks (use of forklift)	85	79	Below DoD OEL
21Sept 15 ND15070	Administrative work and inspections	85	58	Below DoD OEL
21Sept 15 ND15069	Recycling tasks (collection, use of baler, crusher and pick-up truck)	85	83	Below DoD OEL

I & E DIV PW-NAVFAC-FEAD PERSONNEL NOISE SAMPLING RESULTS				
DATE SAMPLE #	ACTIVITY	EXPOSURE LIMIT	MEASURED TWA EXPOSURE	RESULT
10 May 2018 ND18040	Site Visits-Technicians	85	82	Below DoD OEL
10 May 2018 ND18039	Site Visits-Technicians	85	80	Below DoD OEL
18 May 2017 ND17051	Site Visits-Technicians	85	83	Below DoD OEL
18 May 2017 ND17054	Site Visits-Technicians	85	77	Below DoD OEL
11 May 2017 ND17049	Site Visits-Technicians	85	83	Below DoD OEL

I & E DIV PW-FM BOILER PERSONNEL NOISE SAMPLING RESULTS				
DATE SAMPLE #	ACTIVITY	EXPOSURE LIMIT	MEASURED TWA EXPOSURE	RESULT
12 May 16 ND16116	Boiler room operations to include hourly walkthroughs of the plant.	85	84	Below DoD OEL

PW-FM CRS PERSONNEL NOISE SAMPLING RESULTS				
DATE SAMPLE #	ACTIVITY	EXPOSURE LIMIT	MEASURED TWA EXPOSURE	RESULT
No current samples				

PW-FM HVAC/UTILITIES PERSONNEL NOISE SAMPLING RESULTS				
DATE SAMPLE #	ACTIVITY	EXPOSURE LIMIT	MEASURED TWA EXPOSURE	RESULT
6 April 2016 ND15103	Utilities maintenance to include working on a new vacuum machine in bay of building 5501	85	81	Below DoD OEL
6 April 2016 ND15102	Utilities maintenance to include performing well and boiler checks	85	77	Below DoD OEL
6 April 2016 ND15101	HVAC maintenance to include PMs on AC units inside MDMC area.	85	90	Above DoD OEL
6 April 2016 ND15100	HVAC maintenance to include PMs on AC units inside MDMC area.	85	84	Below DoD OEL
3 Dec 14 ND15010	Utilities maintenance to include performing boiler room checks.	85	75	Below DoD OEL
3 Dec 14 ND15011	Utilities maintenance to include performing boiler room checks.	85	78	Below DoD OEL
16 Oct 14 ND15001	HVAC maintenance to include PMs on AC units in buildings on MCLB. (at the time of the survey personnel worked at CRS)	85	81	Below DoD OEL
16 Oct 14 ND15002	HVAC maintenance to include PMs on AC units in buildings on MCLB (at the time of the survey personnel worked at CRS)	85	80	Below DoD OEL

PW-FM MAINTENANCE PERSONNEL NOISE SAMPLING RESULTS				
DATE SAMPLE #	ACTIVITY	EXPOSURE LIMIT	MEASURED TWA EXPOSURE	RESULT
12 May 16 ND16110	Road & grounds tractor operations- Personnel used a jackhammer crane to crush concrete for several hours. The crane has an enclosed cab.	85	86	Above DoD OEL
12 May 16 ND16111	Road & grounds worker-Personnel operated the backpack blower in the morning then acted as a safety/watcher on ground for the tractor operator.	85	90	Above DoD OEL
21 Oct 14 ND15003	Road & grounds tractor operations- ground maintenance and upkeep operations via tractor	85	85	At DoD OEL
21 Oct 14 ND15004	Road & grounds tractor operations- ground maintenance and upkeep operations via tractor	85	85	At DoD OEL

3. At the discretion of Industrial Hygiene, additional noise measurements (sound level surveys) may be obtained in work centers or noise dosimetry (personal monitoring on individuals) performed to resolve compliance issues such as 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.

4. The hearing protection devices currently in use (listed below) are capable of attenuating worker noise exposure below the OEL unless otherwise stated. It is recommended that the shop re-emphasize the need for wearing appropriate hearing protection continually when in designated noise hazard areas and it should be ensured that hearing protection use is strictly enforced throughout the shop. The shop should also consider any means available to minimize or

eliminate noise wherever possible in order to reduce potential worker exposures. All noise hazardous areas/equipment should remain labeled with appropriate noise hazard stickers/signs. Should tasks change such that worker noise exposures are affected, notify Industrial Hygiene so that another assessment can be conducted.

Hearing protection in use:

Environmental Branch: EAR soft yellow neon blast earplugs (NRR 33 dB), Moldex rockets earplugs (NRR 27 dB) or what is provided at the maintenance depot (cannot be assessed).

Recycling Center: EAR Classic corded earplugs (NRR 29dB) and Tasco Sound Star Earmuff (NRR 24 dB) is only capable of attenuating noise levels less than 93 dB to below the OEL.

Public Works Branch: what is provided at the maintenance depot (cannot be assessed)

PW-NAVFAC-FEAD: Howard Leight Laser Lite earplugs (NRR 32 dB) and 3M EAR Express Pod corded earplugs (NRR 25 dB) is only capable of attenuating noise levels under 94 dB to below the OEL.

PW-FM Boiler: Howard Leight Impact earmuffs (NRR 23 dB) is only capable of attenuating noise levels under 93 dB to below the OEL.

PW-FM CRS: Howard Leight Laser Lite earplugs (NRR 32 dB) and Tasco Sound Shield muffs (29 dB)

PW-FM HVAC/Water: 3M EAR Express Pod corded earplugs (NRR 25 dB) is only capable of attenuating noise levels below 94 dB to below the OEL.

PW-FM IWTP: 3M EAR Express Pod corded earplugs (NRR 25 dB) is only capable of attenuating noise levels below 94 dB to below the OEL.

PW-FM Maintenance: 3M EAR Express Pod corded earplugs (NRR 25 dB) is only capable of attenuating noise levels below 94 dB to below the OEL.

Supply had the following to issue out: Howard Leight Laser Lite earplugs (32 dB)

5. The original sample results discussed in this attachment are on file with the Industrial Hygiene 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.

**PERSONAL AIR SAMPLING RESULTS SUMMARY
 INSTALLATION AND ENVIRONMENT DIVISION
 MARINE CORPS LOGISTICS BASE ALBANY, GA
 REPORT NUMBER: AL18014
 MAY 2018**

PERSONAL AIR SAMPLING RESULTS					
DATE SAMPLE #	ACTIVITY	STRESSOR	EXPOSURE LIMIT	MEASURED TWA EXPOSURE	RESULTS
6 Oct 14 AS15006	Personnel changing AC filters	Dust	10 mg/m ³	0.074 mg/m ³	Below the TLV
6 Oct 14 AS15005	Personnel changing AC filters	Dust	10 mg/m ³	0.302 mg/m ³	Below the TLV
3 Oct 14 AS15003	Personnel changing AC filters	Dust	10 mg/m ³	0.074 mg/m ³	Below the TLV
1 Oct 14 AS15001	Personnel changing AC filters	Dust	10 mg/m ³	0.073 mg/m ³	Below the TLV

1. The personal sample results noted above indicated artisans had exposures below the ACGIH TLV during the process of changing out AC filters. Based on the operations, engineering controls and PPE worn, the artisans are adequately protected.
2. Should tasks change such that worker exposures are affected, notify the Industrial Hygiene Department so that additional sampling can be conducted.
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.

**RESPIRATORY PROTECTION SUMMARY
 INSTALLATION AND ENVIRONMENT DIVISION
 MARINE CORPS LOGISTICS BASE ALBANY, GA
 REPORT NUMBER: AL18014
 MAY 2018**

1. The following is a listing of work tasks where respiratory protection is recommended. The recommendations are based on the results of air sampling data, regulatory requirements and the judgment of the industrial hygienist. It is the responsibility of the command's Respiratory Protection Program manager (RPPM) to implement the program requirements. Among the requirements of this program are annual training and annual fit testing. The examining physician determines the frequency of medical evaluations based on the employee's age and other factors. Military personnel who have a current PHA and are considered 'fit for full duty' are considered medically qualified to wear a respirator. It is likely that in some cases where respiratory protection was not specifically recommended, personnel may request voluntary respiratory protection for their own individual reasons. In instances of discretionary or voluntary respirator use, the respirator must be issued and controlled by the RPPM. Voluntary respiratory use must also meet the requirement of OPNAVINST 5100.23G, 1503g. (1-3).

WORKCENTER	WORK TASK	RESPIRATOR TYPE
Environmental Branch	Cleaning bullet trap: (Lead dust) Personnel may be asked to clean the 100 meter range bullet trap where lead dust is a hazard of concern until it is wetted down with water.	Full face respirator with a P100 filter discarded after each use. The filter can be reused within the same week as long as it is stored properly (i.e. in a separate bag from the respirator)
	Emergency Response: (Unknown hazards) Personnel can respond to environmental spills/disasters. This can include anything from storage tank spills to leaking fuel when a vehicle is moved.	Full face respirator with a P100/OV combo cartridge discarded after each use or SCBA option (maintained by fire department).
Housing Branch-Transient Housing	Housekeeping: (Nuisance dust) Dusting.	N-95 filtering facepiece (Voluntary use).
PW-FM CRS	Maintenance calls-not routine: (Various paint vapors and heavy metals) Personnel may receive a request to perform a specific facility maintenance call that does not fit into the normal operations such as maintenance on blast booths, paint booths, tank components etc. These types of calls are mostly contracted out however CRS may be asked to fill in.	Half face respirator with a P100/OV filter discarded after each use. The filter can be reused within the same week as long as it is stored properly (i.e. in a separate bag from the respirator)

2. Specific model of respirator and cartridge or filter should be specified in the local SOP for each work task. Local SOPs need to be updated to reflect current respirator recommendations.

3. The 2017 respiratory protection program review for Marine Corps Logistics Base Albany was provided to the command under separate cover via ltr 6260 Ser 16IHZZ 0028 of 09 January 2018. That review provided specific program findings and recommendations. Stacey Williams at MCLB Albany Safety Department is the overall respiratory protection program manager (RPPM).

**UPDATED EXPOSURE MONITORING PLAN
 INSTALLATION AND ENVIRONMENT DIVISION
 MARINE CORPS LOGISTICS BASE ALBANY, GA
 REPORT NUMBER: AL18014
 MAY 2018**

COMMAND: Installation and Environment Division UIC: I & E: N45201, NAVFAC: N40085	P.O.C: TC Mullen PHONE: 639-8411	SURVEY DATE: May 2018 SAMPLES DUE BY: May 2019 and May 2020 LAST SURVEY PERFORMED BY: Whitney Bishop ASSIGNED TO IHT: Areiole Williams			
EXPOSURE MONITORING PLAN					
OPERATION AND STRESSOR TO BE MONITORED	NUMBER OF SAMPLES	I METHOD	II AREA	III FREQ	IV MAN-HOURS
Environmental Branch-Compliance and Pollution Prevention Pre clean small arms shooting range for CRS-Lead POC: Mr. Metts-639-8934 Rationale: A Priority: 1	1	F	BZ	5	9
Action: Collect lead samples via an ICP metal scan if Mr Metts or Mr Reimer clean the shooting range. This is an as needed task and therefore may not be accomplished. Will not count against you if this is not accomplished.					
IH Tech Comments:					
PW-FM CRS Maintenance-Welding-heavy metals POC: Ricky Stallings-639-5628 Rationale: A Priority: 1	1	F	BZ	5	9
Action: Obtain air samples during the welding process. This can include SMAW or MIG welding. Collect an ICP metal scan. Try to get a welding task that is for a long period of time and is on stainless steel. Make sure to get copies of the SDS for the rods used. This is an as needed task and therefore may not be accomplished. Will not count against you if this is not accomplished.					
IH Tech Comments:					
PW-FM CRS Maintenance-welding-ventilation POC: Ricky Stallings-639-5628 Rationale: A Priority: 1	1	DR	BZ	4	0.5
Action: Conduct a baseline ventilation survey for the new portable local exhaust system for welding. Make sure to collect both face velocity measurements and a capture velocity measurement at 125 fpm and measure the distance at which this is taken. Due May 2019					
IH Tech Comments:					
Monitoring Plan Completion Reviewed By:				TOTAL HOURS:	18.5
I Method of Measurement	II Area	III Frequency	IV Man-hours (Type/Number of Units/Hours)		
DR Direct Reading	BZ Breathing Zone	1 1x/Year	AIR: Full Shift: Each 9		
IT Indicator Tube	HZ Hearing Zone	2 2x/Year	STEL: Up to 3 samples 1.5		
F Filter	GA General Area	3 4x/Year	HEAT STRESS: Full Shift: Each 9		
PD Personal Dosimeter	SZ Source Zone	4 1x/2 Years	NOISE DOSIMETRY: Full Shift: Each 9		
AT Adsorption Tube (Charcoal, Silica Gel, Etc.)	O Other (Specify)	5 If performed	NOISE SLM: All Sources: Up to 5 2.5		
		6 Other (specify)	VENTILATION: Hoods/Tanks/Exhausts: Each 0.5		
W Wipe			VENTILATION: Air Changes: Each space 1		
B Bulk Sample			VENTILATION: Each Walk-in Booth 2.5		
			BREATHING AIR: Per System 2.5		

Sample Rationale:

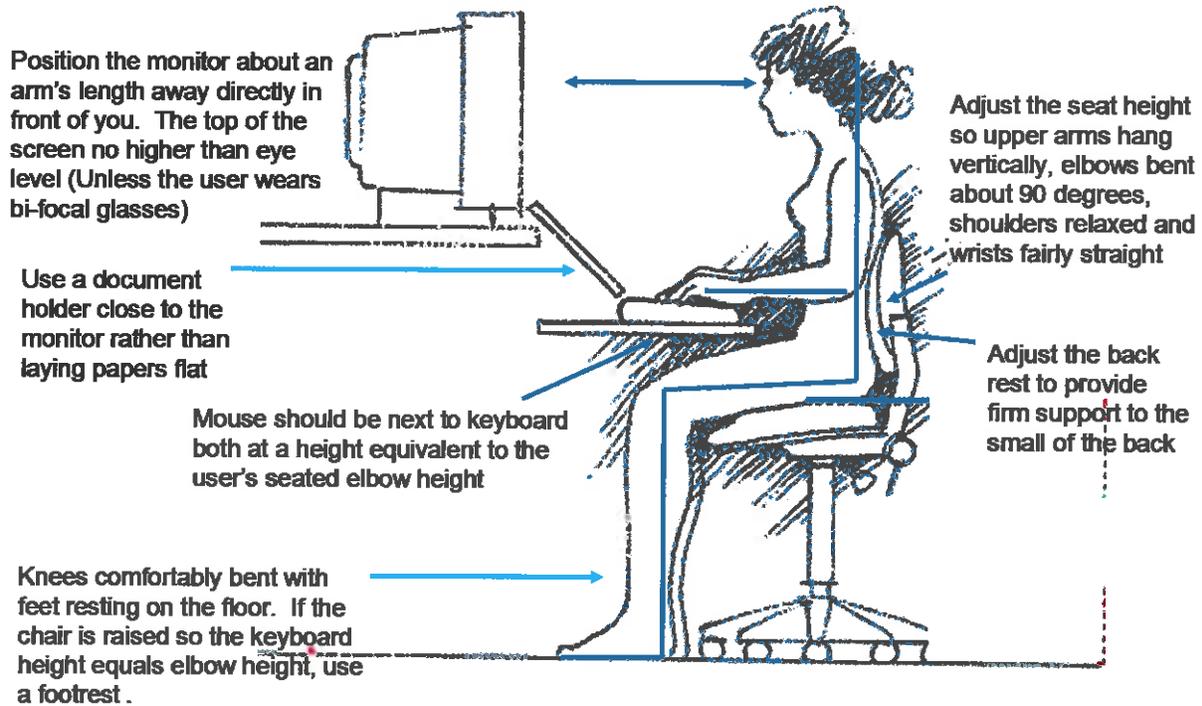
- A:** Fulfill regulatory sampling requirements.
- B:** Collect sufficient data to allow statistically valid exposure assessments.
- C:** Track workplace exposures to determine trends.
- D:** Validate professional judgments of unchanged exposure assessments.

Priority Category:

- Priority 1:** Needed to fulfill regulatory/instructional 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 judgments 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 and employee support for the sampling process is important. It is requested that every effort be given to cooperating with the personnel assigned to perform the exposure monitoring. Cooperation by both workers and supervisory personnel will expedite the sampling and minimize undue interference with work center operations.

Neutral Posture for Computer Use



TIME TO TAKE A COMPUTER BREAK

For every 20 minutes of computer use,
look at an object 20 feet away for
20 seconds. This reduces eyestrain.

Move your eyes side-to-side and
top to bottom. This helps moisten
your eyes and reduces eyestrain.

Close your eyes and gradually
lower your head. This relaxes
your eyes and neck.

Cup your eyes with your hands
and close your eyes. Do not put
any direct pressure on your eyes.
This relaxes your face and
moistens your eyes.

Extend your arms and fingers
and rotate. This reduces stress
on the upper extremities.

Rotate your ankles. This promotes
blood circulation in your legs.

With your arms at your sides,
shake your fingers. This
relaxes your arms, hands
and fingers.

While seated, elongate your back
by pretending there is a cable
attached to your head that is slowly
pulling upwards. This will promote
good posture and relieve some
low back pain.

Shrug your shoulders. This eliminates
stress from the shoulders and upper back.

Slowly pull your arms back as far as
you can, trying to touch your shoulder
blades together. This will reduce
upper back stress.

Tip: Taking 20 second micro-breaks throughout the day to refocus your eyes will reduce fatigue at the end of the day. 20/20 rule: for every 20 minutes of work, rest the eyes 20 seconds.

CUSTOMER SATISFACTION SURVEY

Industrial Hygiene Department
Naval Hospital, Jacksonville

Command: _____ Date: _____

Please rate this survey and report by indicating the numbers below that reflect your level of satisfaction:

	Level of Satisfaction				
	Low				High
	1	2	3	4	5
1. Coordination and/or response to request					
2. Courtesy and professionalism of IH personnel					
3. IH personnel's ability to communicate clearly and openly					
4. Clarity of Report					
5. Usefulness of Report					
6. Exposure Monitoring (if applicable)					
7. Timeliness of Report					

- 7. How can we improve the services we are providing?
- 8. What other services would you like Industrial Hygiene Services to provide?
- 9. Additional Comments (add a separate sheet if necessary):

Name: _____ Position: _____ Shop/Codes: _____

PLEASE RETURN THIS SURVEY TO:

 Head, Industrial Hygiene Department
 Naval Hospital Jacksonville
 Tamara.r.walker2.civ@mail.mil

THANKS!!!