UNITED STATES MARINE CORPS
Marine Corp Base
Camp Lejeune, North Carolina 28542-5000

6260
BLOG
29 May 1987

FIRST ENDORSEMENT on CO, NavHosp ltr 6260.7F/87.199.7F, 371, dtd 20 May 1987

From: Assistant Chief of Staff, Logistics
To: Officer in Charge, Base Motor Transport Officer

Subj: BASELINE INDUSTRIAL HYGIENE SURVEY OF THE BASE MOTOR TRANSPORT BUILDINGS AS-118 AND AS-119, MCAS, NEW RIVER, NC

1. Forwarded for appropriate action.

W. Z. DEMENT
By direction

DEPARTMENT OF THE NAVY
NAVAL HOSPITAL
CAMP LEJEUNE, NORTH CAROLINA 28542-5008

IN REPLY REFER TO
6260.7F/
87.199.7F
371
20 May 87

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune, NC 28542 (Attn: AC/S Logistics Dept.)

Subj: BASELINE INDUSTRIAL HYGIENE SURVEY OF THE BASE MOTOR TRANSPORT BUILDINGS AS-118 AND AS-119, MCAS, NEW RIVER, NC

Ref: (a) CO, MCAS, NR ltr 6260 GSO 29 Oct 1986
(b) MCO 5100.8E
(c) OPNAVINST 5100.23.B

Encl: (1) Baseline Industrial Hygiene Survey of the Base Motor Transport buildings AS-118 and as-119, MCAS, New River, NC
(2) Lab analysis report and noise survey data

1. By references (a), (b), and (c) the subject survey of the Motor Transport buildings AS-118 and AS-119 were performed by Ms. I. Sanchez (Industrial Hygienist) and Mr. McCloskey (Industrial Hygiene Technician) of the Occupational Health and Preventive Medicine Department, Industrial Hygiene Branch, on 2 April 1987.

2. The survey summary and findings/recommendations are given in enclosures (1) and (2). The summary contains the significant survey results and a Risk Assessment Code (RAC) summary for survey deficiencies.

3. The survey report contains an evaluation of the worksites and work practices found in the Base Motor Transport buildings AS-118 and AS-119. The evaluation is based upon work process information, hazardous materials used in these processes and control measures. The deficiencies are assigned a number, a RAC, and appropriate corrective action.

4. The assistance and cooperation from your personnel during this survey was greatly appreciated.

'87 MAY 29 A9:55

MEB:CAMP
AC/
BEE

Subj: BASELINE INDUSTRIAL HYGIENE SURVEY OF THE BASE MOTOR TRANSPORT BUILDINGS AS-118 AND AS-119, MCAS, NEW RIVER, NC

5. Point of contact on this report is Ms. I. Sanchez at extensions 2707/6813.

M. P. GENTRY
By direction

Copy to:
CO, MCAS, NR
MCAS, B. M. T. Supervisor, bldg. AS-118
MCAS Safety Manager

Baseline Industrial Hygiene Survey Report
of the Motor Transport, Buildings AS-118 and AS-119
Marine Corps Air Station, New River, NC
2 April 2987

I. References

(a) CO, MCAS, NR ltr 6260 GSO 29 Oct 1986

(b) MCO 5100.8E

(c) OPNAVINST 5100.23B

(d) MCO 5100.25

(e) 29 CFR 1910.1200

(f) BO 6260.4A

(g) DOD 6055.5-M

Occupational Health and Preventive Medicine Department
Industrial Hygiene Branch
Naval Hospital
Camp Lejeune, North Carolina

Baseline Industrial Hygiene Survey Report
of the Motor Transport, Buildings AS-118 and AS-119
Marine Corps Air Station, New River, NC
2 April 2987

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(a) CO, MCAS, NR ltr 6260 050 29 Oct 1986

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(c) OPNAVINST 5100.23B

(d) MCO 5100.25

(e) 29 CFR 1910.1200

(f) BO 6260.4A

(g) DOD 6055.5-M

Occupational Health and Preventive Medicine Department
Industrial Hygiene Branch
Naval Hospital
Camp Lejeune, North Carolina

II. Summary

A. By references (a), (b), and (c) the Industrial Hygiene Branch, Occupational Health and Preventive Medicine Department performed a baseline Industrial Hygiene Survey of the Base Motor Transport, bldgs. AS-118 AND AS-119 to review workplace operations. The significant findings from this survey are:

1. Personnel are exposed to hazardous noise levels above 84 dB(A) when operating electrical handtools and machinery. Although the exposure to noise is not for a full shift of 8 hours, the employees are already included in the hearing conservation program.

2. A list of the hazardous materials used along with their material safety data sheets (MSDS) were not available at the job site. By references (d) and (e), the personnel working with hazardous materials should have knowledge of the nature and toxicity of the chemicals that they handle as well as the procedures for storage and disposal of those chemicals.

B. References (b) and (c) discuss the use of hazard risk assessment codes (RAC) as guidance for abatement of deficiencies. A summary of the RACs for Occupational Health deficiencies identified in this survey is given below:

	RAC	
1	critical	0
2	serious	0
3	moderate	2
4	minor	0
5	negligible	0
	TOTAL	2

III. FINDINGS

A. WORKPLACE: BASE MOTOR TRANSPORT, BLDG. AS-118

1. Process Description: 5 civilians (males) mechanics repair commercial vehicles used in the Air Station. The employees work on fuel tankers, forklifts and firefighting equipment, change of oil transmissions, install engines and repair motors. The building consist of 5 working areas: bay room, welding room, mechanic area, hand tools room and office.

(a) Bay room - in this room the employees use oil for the vehicles transmissions and motor engines. A material safety data sheet for the oil was not available in the work area. One bench grinder and a geneator alternator unit were monitored for noise, the noise levels obtained were below 84 dB(A) refer to enclosure (2). Those machines are used for approximately 15 - 20 minutes whenever they are needed.

(b) Welding room - employees do arc and gas welding

II. Summary

A. By references (a), (b), and (c) the Industrial Hygiene Branch, Occupational Health and Preventive Medicine Department performed a baseline Industrial Hygiene Survey of the Base Motor Transport, Bldgs. AS-118 AND AS-119 to review workplace operations. The significant findings from this survey are:

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(b) Welding room - employees do arc and gas-welding

(oxygen-acetylene) about 2 - 3 times per week on trucks and vehicles. The operation last approximately 10 - 15 minutes. Employees are exposed to iron oxide and metal fumes from welding. Air sampling for this operation will be scheduled from the Industrial Hygiene Branch with the Base Motor Transport supervisor in order to evaluate the employees exposure and the requirements for ventilation. In this room a metal machine and one arc welding unit were monitored for noise, the levels obtained were above 84 dB(A). See enclosure (2). The metal saw is operated for approximately 12 minutes 2 times per week. Employees use their ear protectors when the machine is on. The arc welding unit is operated for about 10 - 15 minutes 2 times per week. This unit emits noise levels of approximately 95 dB(A) which is above the established standard of 84 dB(A) per reference (f).

(c) Mechanic area - in this area is where most of the work is done. Employees install motor engines, work on brake clutching, change transmission oils and do any type of repair on the vehicles. The area has a capacity of 8 vehicles for repair. Employees may be exposed to carbon monoxide fumes released when the trucks are running, asbestos from the brakes and hazardous noise from the machines and handtools. Local exhaust ventilation is provided by overhead flexible ducts.

(d) Handtools room - the room is designed for the storage of powered tools and other materials of work.

(e) Office - no occupational health problems were found in the office.

2. Evaluation

(a) Bay room - employees use transmission oil but they are provided with gloves and goggles to protect themselves against any irritant effect on the eyes and skin. Barosol solvent is used to clean carburetors, the main component of the solvent is Methylene Chloride, detector tube readings did not show high concentrations of the chemical in the area, see enclosure (2). Detector tubes for hydrocarbons were also taken in the area where employees work with oil, no readings were obtained, see enclosure (2).

(b) Welding room - the employees involved in welding will be sampled for metal fumes, which can produce irritations to the respiratory system and metal fever. The personal air sampling will determine if local exhaust ventilation is needed in the room. Welders are not provided with respirators.

(c) Mechanic area - a noise survey using screening samples with the sound level meter was conducted in the mechanic area while the employees were using electrical handtools drilling

and press machines. The noise levels from the handtools were above 84 dB(A), see enclosure (2). Air sampling for carbon monoxide, asbestos and ventilation survey will be scheduled with the Base Motor Transport supervisor.

(d) Handtools room - A bulk sample from a pipe insulation was taken to be analyzed for asbestos. The results were positive and are included on enclosure (2). The insulation was intact but it would be up to Base Maintenance to remove the asbestos or incapsulate it if deterioration occurs.

(e) Office - no occupational health hazards were observed.

3. Deficiencies

No.	Reference	RAC	Corrective Action
199.1	29CFR1910.252 (C)(2)(V)	3	Curtains or shield guards should be provided in the welding room to protect passing employees from flying sparks.
199.2	MCO 5100.25 DODINST 6050.5 29CFR 1910.1200	3	The personnel should be provided with an educational program on chemical hazards.

4. MEDICAL SURVEILLANCE

The personnel exposed to hazardous noise are already included in the hearing conservation Program. Air samples for the welding operation have to be taken first in order to know if the employees will be included in a periodic medical surveillance program. Preplacement medical examinations should be provided to the welders in accordance to reference (g).

5. Comments/recommendations

Supervisors should start to request from the manufacturer the material safety data sheets of the chemicals used in their worksites. This will allow the personnel that work with the hazardous materials to have knowledge of the chemicals as well as the right procedures to follow in case of emergencies.

B. Workplace: Base Motor Transport Building AS-119

1. Process Description: There are 12 civilians (males) and 8 military (males) drivers. Their duties are to drive the military personnel to the training facilities. Employees are issued with government driver's licenses and they work on 3

shifts. The military drivers substitute for the civilians when there is no one available. The building is provided with a parking lot that has a capacity for 38 vehicles which includes passenger vans, cargo vans, sedans and 13 school buses.

2. Evaluation: No chemicals are used by the personnel that work in the building. No occupational health hazards were found in this location.

3. Deficiencies: None

4. Medical Surveillance: Personnel receive pre-employment and annual driver physical examinations.

5. Comments/recommendations: None

Continuation

DATE 4/3/87 (Survey date)

RECORDED BY John McClosky and I. Sanchez

SIGNATURE

COMMAND

BLDG/SHOP MCAS Bldg. 118 Base Motor Transport

☒ MEASUREMENT TAKEN AT OPERATOR'S EAR

☒ CALIBRATIONS PRIOR TO AND AFTER SURVEY 1 DB

☒ INITIAL SURVEY ☐ RESURVEY ☐ OTHER

INSTRUMENTATION

	BLM	MIKE	CALIBRATOR
MFR	General Radio	GNR	GNR
MOD	1565-B	1560-2133	987
SER	43762	57952	1982
CAL	12/2/86	12/2/86	9/9/86

MEAS TAKEN	WINDSCREEN	WIND
☒ INDOORS	☐ USED	TEMP 68°F
☐ OUTDOORS	☒ NOT USED	PRES 8P

SOUND LEVEL DATA

LOCATION	SOURCE IN USE	TYPE NOISE	METER ACTION	DBA	DBC	LABEL PRESENT	H/P IN USE	HAZ RAD (FT)
Mechanic Area	Air Chiesel	continuous	slow	100	102	YES	YES	36'
Mechanic Area	Impact Wrench	continuous	slow	100	100	YES	YES	42'
Mechanic Area	Bench Grinder	continuous	slow	80	82	YES	YES	6'
Mechanic Area	Finishing Sander	continuous	slow	88	88	YES	YES	6'
Mechanic Area	Pneumatic Drill	continuous	slow	87	87	YES	YES	31'
Mechanic Area	Pneumatic Drill	continuous	slow	87	89	YES	YES	15'

NOTE TYPE NOISE - STEADY STATE (SS), INTERMITTENT (INT), IMPACT (IMP)
METER RESPONSE - ENTER 'F' FOR FAST, 'S' FOR SLOW
HEARING PROTECTION - PLUGS (P), MUFFS (M), PLUGS AND MUFFS (P&M), NONE (N)

	SOURCES	TIME/PATTERN	PERSONNEL EXPOSED
7	Snap On PH 45A Air Chiesel S.N. 111091	15-30 minutes once/week	3-4 mechanics
8	Blue Point Impact Wrench Mod AT 500 Ser A1019	15-30 minutes once/week	3-4 mechanics
9	Bench Grinder 93052376	5-10 minutes everyday	3-4 mechanics
10	Heavy duty Type 2 BPC 0002 Black & Decker Finishing Sander	Up to 1 hour every 3 months	1-2 employees
11	Rockwell Pneumatic Drill 31A-5326	10-20 minutes 3 time/week	1-2 employees
12	Chicago Pneumatic Drill CP9288-R	10-20 minutes 3 times/233k	1-2 employees

DATE 4/3/87

RECORDED BY John McCloskey & I. Sanchez

SIGNATURE

COMMAND MCAS

BLDG/SHOP 118 Base Motor Transport

☒ MEASUREMENT TAKEN AT OPERATOR'S EAR

☒ CALIBRATIONS PRIOR TO AND AFTER SURVEY 1 DB

☒ INITIAL SURVEY ☐ RESURVEY ☐ OTHER

INSTRUMENTATION

	SLM	MIKE	CALIBRATOR
MFR	General Radio GNR		GNR
MOD	1565-B	1560-2133	987
SER	43872	57952	1982
CAL	12/2/86	12/2/86	9/9/86

MEAS TAKEN	WINDSCREEN	WIND
☒ INDOORS	☐ USED	TEMP 68°F
☐ OUTDOORS	☒ NOT USED	PRES SP

SOUND LEVEL DATA

LOCATION	SOURCE IN USE	TYPE NOISE	METER ACTION	DBA	DBC	LABEL PRESENT	H/P IN USE	HAZ RAD (FT)
Short Bay	Bench Grinder	continuous	slow	83	86	YES	YES	6'
[illegible]rt Bay	Generator alternator	continuous	slow	68	76	YES	YES	6'
Welding Room	Arc Welding Unit	continuous	slow	95	96	YES	YES	6'
Welding Room	Metal Saw	continuous	slow	85	85	YES	YES	10'
Mechanic Area	Drilling Machine	continuous	slow	73	73	YES	YES	10'
Mechanic Area	Press Machine	continuous	slow	79	79	YES	YES	10'

NOTE TYPE NOISE - STEADY STATE (SS), INTERMITTENT (INT), IMPACT (IMP)
METER RESPONSE - ENTER 'F' FOR FAST, 'S' FOR SLOW
HEARING PROTECTION - PLUGS (P), MUFFS (M), PLUGS AND MUFFS (P&M), NONE (N)

	SOURCES	TIME/PATTERN	PERSONNEL EXPOSED
1.	Bench Grinder, Blick & Decker 9305-2395	10-15 minutes for 2-3 times/week	1-2 mechanics
2.	Tester Sun 620 Generator Alternator	10-15 minutes for 3 times/week	2-3 mechanics
3.	Arc Welding Unit (when is on)	10-15 minutes 2 times/week	2-3 mechanics
4.	Robertson High Speed Metal Saw [illegible] 6069	10 minutes for 2 times/week	1-2 mechanics
5.	Drilling Machine	5 - 10 minutes everyday	1-2 mechanics
6.	Press Machine	5 minutes once/month	1-2 mechanics

Enclosure (2)

DATE 4/3/87 (Thursday)

RECORDED BY John McCloskey & I. Sanchez

SIGNATURE

COMMAND MCAS Bldg. 118 Base Motor Transport

BLDG/SHOP

☒ MEASUREMENT TAKEN AT OPERATOR'S EAR

☐ CALIBRATIONS PRIOR TO AND AFTER SURVEY ± DB

☒ INITIAL SURVEY ☐ RESURVEY ☐ OTHER

INSTRUMENTATION

	BLM	MIKE	CALIBRATOR
MFR	General Radio	GNR	GNR
MOD	1565-B	1560-2133	987
SER	43762	57952	1982
CAL	12/2/86	12/2/86	9/9/86

MEAS TAKEN	WINDSCREEN	WIND
☒ INDOORS	☐ USED	TEMP 68°F
☐ OUTDOORS	☒ NOT USED	PRES 5P

SOUND LEVEL DATA

LOCATION	SOURCE IN USE	TYPE NOISE	METER ACTION	DBA	DBC	LABEL PRESENT	H/P IN USE	HAZ RAD (FT)
Mechanic Area	Finisher Sander	contin-uous	slow	96	98	YES	YES	24'
kground noise		Back	slow	65	69	---	---	---

NOTE TYPE NOISE - STEADY STATE (SS), INTERMITTENT (INT), IMPACT (IMP)
METER RESPONSE - ENTER 'F' FOR FAST, 'S' FOR SLOW
HEARING PROTECTION - PLUGS (P), MUFFS (M), PLUGS AND MUFFS (P&M), NONE (N)

SOURCES	TIME/PATTERN	PERSONNEL EXPOSED
Rockwell Sander Mod 1083 Ser. No. 18196	Up to 1 hour every 3 months	1-2 employees
* All the equipment that produces noise was turned off.		

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