

## TRAINING UPDATE

**Lab Location:**

GEC, SGMC & WOMC

**Date Distributed:**

3/6/2020

**Department:**

All staff

**Due Date:**

3/31/2020

**Implementation:**

**3/5/2020**

### DESCRIPTION OF REVISION

<b>Name of procedure:</b>
<b>Occupational Noise      SGAH.SA15 v3</b>
<b>Description of change(s):</b>
<p>Header &amp; section 1: changed WAH to WOMC</p> <p>Section 3 &amp; 5: updated safety position titles, added designee</p> <p>Section 9: updated survey results added for all sites</p> <p><a href="#">This revised SOP was implemented March 5, 2020</a></p>

Document your compliance with this training update by taking the quiz in the MTS system.

# SGAH.SA15 Occupational Noise

Copy of version 3.0 (approved and current)

Last Approval or  
Periodic Review Completed 3/5/2020

Next Periodic Review  
Needed On or Before 3/5/2022

Effective Date 3/5/2020

Controlled Copy of a Manual ID 19657

Location GEC, SGMC & WOMC Safety manual

Organization Adventist HealthCare

## Approval and Periodic Review Signatures

Type	Description	Date	Version	Performed By	Notes
Approval	Lab Director	3/5/2020	3.0	Nicolas Cacciabeve	
Approval	Core lab approvals	3/5/2020	3.0	<i>Robert SanLuis</i> Robert SanLuis	
Approval	QA approval	2/26/2020	3.0	Leslie Barrett	
Periodic review	Lab Service director	2/24/2020	2.0	<i>Robert SanLuis</i> Robert SanLuis	
Periodic review	QA review	2/17/2020	2.0	Leslie Barrett	Need to update to AHC process. Awaiting results of SGMC and GEC assessment
Approval	Lab Director	2/21/2018	2.0	Nicolas Cacciabeve	Recorded when document uploaded to MediaLab
Periodic review	Designated Reviewer	2/21/2018	2.0	Nicolas Cacciabeve	Recorded when document uploaded to MediaLab

Approvals and periodic reviews that occurred before this document was added to the MediaLab Document Control system may not be listed.

## Version History

Version	Status	Type	Date Added	Date Effective	Date Retired
3.0	Approved and Current	Major revision	2/25/2020	3/5/2020	Indefinite
2.0	Retired	First version in Document Control	12/10/2018	2/26/2018	3/5/2020

Non-Technical SOP

Title	Occupational Noise	
Prepared by	Bryan Mason	Date: 2/9/2011
Owner	Robert SanLuis, Stephanie Codina	Date: 2/12/2018

Laboratory Approval		
Print Name and Title	Signature	Date
<i>Refer to the electronic signature page for approval and approval dates.</i>		
Local Issue Date:	Local Effective Date:	

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**1. PURPOSE**

This procedure addresses sound levels within the laboratories at Germantown Emergency Center, Shady Grove Medical Center and White Oak Medical Center.

**2. SCOPE**

This procedure applies to all laboratory employees.

**3. RESPONSIBILITY**

The Hospital Safety Officer or designee will measure the sound levels, upon request.

Laboratory management is responsible for ensuring compliance with this SOP.

The Laboratory Services Director or designee is responsible for review and revision of this SOP as needed.

#### 4. DEFINITIONS

dba - Decibels measured using the A weighted scale.

TWA – Time weighted average. Used to determine an exposure to an individual over an certain time interval. All uses of TWA in this document will be expressed as an 8 hour TWA.

#### 5. PROCEDURE

1. Historical noise level monitoring is specified in appendix A.
2. Upon request, the Safety and Emergency Management Director or designee will measure sound levels in the laboratory, whenever conditions change that could increase the exposure levels, i.e. new equipment or construction.
3. Supervisors shall report complaints or concerns from their employees about the noise level to Safety and Emergency Management Director or designee, for further investigation.
4. No areas within the laboratory shall have excessive noise levels as defined in this procedure. If a process change, new piece of equipment or other facility change causes an increase in the noise level, measurements will be conducted using an integrated sound level meter.
  - a. The sound level meter will be calibrated prior to use following instructions from the manufacturer.
  - b. Measurements will be taken at approximately 60 inches from the ground at workstations, aisles and other locations where employees typically work to simulate the sound level at around ear height.
  - c. If sound level measurements identify a noise source with excessive noise levels as described by this procedure, engineering or administrative controls shall be employed to ensure employee exposure levels remain under 85dba TWA.
  - d. If excessive noise levels are not reduced to acceptable levels or the employee exposure is not controlled to ensure less than an 85 dba TWA, then a *Hearing Conservation Program* shall be initiated in compliance with the OSHA Occupational Noise Exposure Standard (29CFR 1910.95).
  - e. Employees may request hearing protectors (i.e. ear plugs or muffs) for noise levels less than excessive levels by contacting the EHS Manager.
5. Specifications:
  - a. Excessive Noise Levels means exceeding the OSHA action level of 85 decibels measured on the A-weighted scale (dba) over an 8 hour Time Weighted Average (TWA) or exceeding higher noise levels for a shorter duration of time resulting in 50% of the Permissible Exposure Level (PEL).
  - b. Permissible Exposure Level (PEL) means the sound level at which an employee cannot exceed averaged over a period of time. The PEL for an

8 hour work shift is 90 dBA.

- c. Hearing Conservation Program is required by OSHA if employee noise exposures equal or exceed an 8-hour time-weighted average (TWA) sound level of 85 dBA or, equivalently, a dose of fifty percent.

**6. RELATED DOCUMENTS**

None

**7. REFERENCES**

29 CFR 1910.95 *Occupational Noise Exposure*

**8. REVISION HISTORY**

Version	Date	Reason for Revision	Revised By	Approved By
		Supersedes Occupational Noise, dated 10/23/2006		
000	2/9/16	Section 1 & 2: remove Nichols Institute Chantilly Section 3: update job titles Section 5: update process to match Baltimore BU Section 9: add appendix Footer: version # leading zero's dropped due to new EDCS in use as of 10/7/13	L Barrett	L Loffredo
1	2/12/18	Updated owner Header: added other sites Section 3: updated director job title	L Barrett	R SanLuis
2	2/25/20	Header & section 1: changed WAH to WOMC Section 3 & 5: updated safety position titles, added designee Section 9: updated survey results added for all sites	C Bowman-Gholston	R SanLuis

**9. ADDENDA AND APPENDICES**

- A. Noise Survey Results for SGMC Lab
- B. Noise Survey Results for GEC Lab
- C. Noise Survey Results for WOMC Lab

## Appendix A Noise Survey Results for Shady Grove Medical Center Lab



### Measurement Report

**Name:** SGMC 2

**Duration:** 2m:0s

**Time:** Feb 18, 2020 At 11:11 Am

**Location:** Rockville

**Device:** iPhone XS, iOS 13.3.1

**Notes:** Tested by Meg Usher, Safety and Emergency Management Coordinator Test area in back corner (loudest area) of the Shady Grove Medical Center laboratory.

### Measurement configurations

Frequency Weighting	A
Response Time	Fast (0.2s)
Calibration	+0.0 dB
Avg/Leq	67.8 dB
Min	65.5 dB
Max	71.3 dB
Peak	74.9 dB

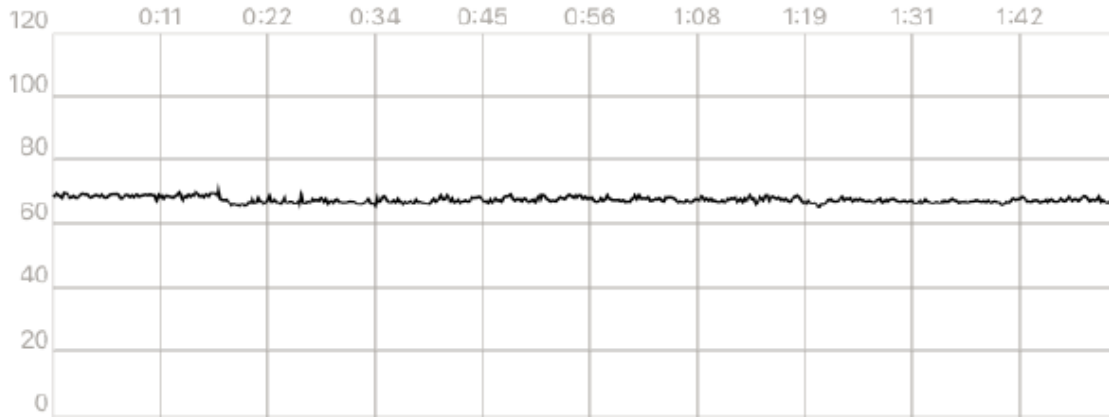
### Measurement results

Standard	NIOSH
Threshold	85 dB
Exchange Rate	3 dB
TWA	0.0 dB
Dose	0.0 %

Projected Dose

0.0%

## Graph



## Appendix B Noise Survey Results for Germantown Emergency Center Lab



### Measurement Report

**Name:** GEC lab

**Duration:** 2m:1s

**Time:** Feb 18, 2020 At 2:53 Pm

**Location:** Germantown

**Device:** iPhone XS, iOS 13.3.1

**Notes:** Tested by Meg Usher, Safety and Emergency Management Coordinator Test area in back corner (loudest area) of the Germantown Emergency Center laboratory.

### Measurement configurations

Frequency Weighting	A
Response Time	Fast (0.2s)
Calibration	+0.0 dB
Avg/Leq	67.4 dB
Min	55.4 dB
Max	82.2 dB
Peak	87.9 dB

### Measurement results

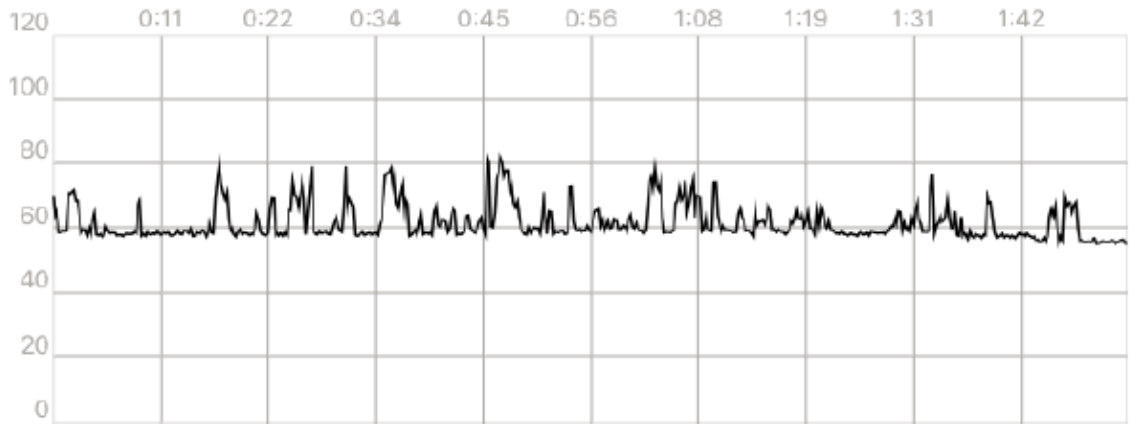
Standard	NIOSH
Threshold	85 dB
Exchange Rate	3 dB
TWA	0.0 dB
Dose	0.0 %



Projected Dose

0.0 %

## Graph



## Appendix C Noise Survey Results for White Oak Medical Center Lab



### Measurement Report

**Name:** lab

**Duration:** 42s

**Time:** Feb 3, 2020 At 9:41 Am

**Location:** Silver Spring

**Device:** iPhone XS, iOS 13.3

**Notes:** Tested by Meg Usher, AHC Safety and Emergency Management Coordinator This test was conducted in the back left corner near the loudest machine.

### Measurement configurations

Frequency Weighting	A
Response Time	Fast (0.2s)
Calibration	+0.0 dB
Avg/Leq	66.3 dB
Min	54.5 dB
Max	78.5 dB
Peak	82.2 dB

### Measurement results

Standard	NIOSH
Threshold	85 dB
Exchange Rate	3 dB
TWA	0.0 dB
Dose	0.0 %

Projected Dose

0.0 %

## Graph

