DHHS POLICIES AND PROCEDURES

Section V: Human Resources
Title: Safety and Benefits

Chapter: Hearing Conservation Plan

Current Effective Date: 3/1/16
Revision History: N/A
Original Effective Date: N/A

Purpose

The purpose of this policy is to establish procedures to preserve personnel hearing through identification and control of high noise levels and mandatory use of hearing protection. This policy applies to all DHHS staff working in high noise areas.

Policy

It is the policy of DHHS to protect employees, patients, clients, residents, and any other individuals from hazards associated with elevated noise levels. Many facility operations could potentially expose staff to noise levels at or above 85 dBA (decibels, A scale) for an eight hour time-weighted-average (TWA). Any identified increases in noise exposures above this level will require modification of this plan and enrollment of affected staff in a Hearing Conservation Program.

Definitions

Audiometric Testing – A test used to determine a subject's hearing levels with the help of an audiometer, but may also measure ability to discriminate between different sound intensities, recognize pitch, or distinguish speech from background noise. Acoustic reflex and otoacoustic emissions may also be measured.

dBA- An expression of the relative loudness of sounds in air as perceived by the human ear. In the A-weighted system, the decibel values of sounds at low frequencies are reduced as a correction to approximate human hearing.

Decibels- A logarithmic unit used to express the ratio of two values of a physical quantity, often power or intensity.

Noise Level – The background sound pressure level at a given location, normally specified as a reference level to study a new intrusive sound source.

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Permanent Threshold Shift – A permanent threshold shift is a permanent shift in the auditory threshold. It may occur suddenly or develop gradually over time. A permanent threshold shift results in permanent hearing loss.

Temporary Threshold Shift - A temporary shift in the auditory threshold. It may occur suddenly after exposure to a high level of noise, a situation in which most people experience reduced hearing. A temporary threshold shift results in temporary hearing loss.

Time Weighted Average - A time-weighted average (TWA) is used to calculate a workers daily exposure to a hazardous substance (such as chemicals, dusts, or vapors) or agent (such as occupational noise), averaged to an 8-hour workday, taking into account the average levels of the substance or agent and the time spent in the area.

Roles and Responsibilities

Safety Programs Manager

The Safety Programs Manager (SPM) ensures that a written plan is in place to establish a policy for hearing conservation. The SPM reviews the policy periodically.

Safety Officer

The Safety Officer is responsible for identifying high noise level areas, providing training, developing a policy specific to the facility/division/office, and monitoring compliance during routine inspections.

Manager/Supervisor

The manager/supervisor ensures that applicable staff are enrolled in the hearing conservation program and that staff are compliant with this policy.

DHHS Staff

Staff are responsible for complying with this policy. Affected staff complete training and testing as required.

Implementation

Program Scope

- Personnel exposed to 90 dBA or more, regardless of duration, will wear hearing protection.
- Hearing Conservation Program requirements will become effective at or above the 85 dBA eight hour TWA level.

Audiometric Testing

• When an increase in noise exposure above 85 dBA, eight (8) hour TWA is identified, a baseline audiometric test will be performed on personnel assigned to the high noise level area.

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- Initial baseline testing shall be conducted to establish each individual's level of hearing prior to their exposure to high noise levels, or within 30 days of the initial exposure. The employee will be tested annually thereafter as long as the employee is assigned to work in a high noise level area.
- Audiometric test results will become a permanent part of individual medical records. Audio grams will be documented.
- An Audiologist will review test results to determine if appreciable hearing loss has been sustained. Persons who suffer a standard threshold shift from their baseline of ten (10) dBA or more at 2,000, 3,000, 4,000, will be notified in writing within 21 days and counseled. Consultations will be documented.
- Individuals who have suffered an appreciable hearing loss will be removed from the high noise area and retested within 30 days. If a permanent hearing loss is identified after the second test, a healthcare professional will recommend a plan of action to prevent further deterioration of the individual's hearing. The employee will be referred to the Workers' Compensation Program for coverage of treatment.
- An alternative to internal audiometric testing can be accomplished by a contract mobile test van.

Noise Level Survey

- The Safety Officer will identify high noise level areas of the facility/division/office by conducting an initial noise level survey.
- Monitoring shall be repeated whenever a change in production, process, equipment or controls increases noise exposures to the extent that additional employees may be exposed at or above the action level; or the attenuation provided by hearing protection being used by employees may be rendered inadequate.
- Safety Officer will maintain documented noise level survey results and notify persons exposed to high noise levels as defined by 29 CFR 1910.95 subpart G.
- Affected employees shall be provided the opportunity to observe any noise measurements conducted pursuant to this plan and 29 CFR 1910.95 subpart G.

High Noise Level Areas/Operations

Each facility/division/office should develop a list of high noise level operations and include that information in this section.

Procedures

- Stationary high noise level areas will be identified by signs to alert staff.
- Staff exposed to high noise levels are required to use approved hearing protection.
- Supervisors are responsible for purchasing a supply of hearing protection to meet the needs of their employees.
- Supervisors ensure employees are informed of hearing protection requirements and enforce this policy.

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- Supervisors with high noise level operations maintain a list of persons affected by this policy and provide time for annual audiometric testing.
- Visitors entering areas where noise levels exceed 90dBA will wear hearing protection. Hearing protection is provided by the department.

Personal Protective Equipment

- Hearing protection shall conform to ANSI standard S3.19-1974 and must attenuate employee exposure to an 8 hour time weighted average of 90 dBA.
- A selection of hearing protection will be available for employees or visitors working or touring through high noise level areas.
- Each department responsible for high noise areas must purchase and stock an appropriate inventory of hearing protection that will meet their needs.
- Hearing protection is cleaned, maintained, and stored appropriately to encourage use and prolong protective value.

Training

Notification and training is provided when there is a change to noise output, engineering controls or protective equipment. The supervisor will be responsible for coordinating mandatory training for new employees. Personnel enrolled in the Hearing Conservation Program will receive training that includes the following:

- The effect of noise on hearing.
- The purpose of hearing protectors, the advantages, disadvantages, and attenuation of various types, and instructions on selection, fitting, use, and care.
- The purpose of audiometric testing, and an explanation of the test procedures.

Recordkeeping

The employee audiometric test records are maintained within the employees' medical file. Individual audiometric test results will be retained for the duration of employment. The Safety Office will retain noise survey results for a period of two (2) years. The records will include:

- Name and job title of the employee.
- Date of audiometric testing.
- The examiner's name.
- Date of the last acoustic or exhaustive calibration of the audiometer.
- The employee's most recent noise exposure assessment.

Access to Information, Training Materials, and Records

- This Plan will be available in the Safety Office and on the shared drive.
- The Safety Officer will make available additional copies of this policy, training materials, lesson plans, noise survey results and noise monitoring instruments upon request.
- Individuals may review their personal audiometric test results upon request.

Policy Update and Program Changes

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- This program will be reviewed annually and updated whenever significant changes occur in the workplace, which adversely affect noise exposures.
- The procedures contained in this policy and the identified noise level areas will be reviewed and updated as necessary.
- The plan is effective upon issuance.

References

- American National Standards Institute (ANSI) S3,19, 1974
- OSHA Occupational Noise Exposure, 29CFR 1910.95, https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9735

For questions or clarification on any of the information contained in this policy, please contact <u>Human Resources</u>. For general questions about department-wide policies and procedures, contact the <u>DHHS Policy Coordinator</u>.

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EFFECTS OF EXPOSURE TO HIGH NOISE LEVELS

Exposure to high noise levels can result in permanent hearing loss. The amount of loss depends on the volume and duration of exposure. Exposure to dangerous noise can occur on the job or during leisure time activities such as loud music or television volume.

The Occupational Safety and Health Administration has established an exposure to sound levels of 85 decibels over an 8 hour time weighted average to be excessive. We have implemented a hearing conservation program to protect and monitor individual's hearing exposed to noise above that level.

 Your work assignment places you at risk for occupational hearing loss.
 Your work assignment could expose you to high noise. Training is being provided and your hearing will be monitored to prevent a hearing loss.

TYPE OF HEARING PROTECTION:

There are two primary styles of hearing protection used at this facility; the foam plug and hearing muff. Hearing protectors are rated for the amount of noise they reduce. Hearing protection must also conform to American National Standards Institute S3.19-1974.

Hearing protection should comfortably fit the head and ears. A tight seal must be maintained for the protector to adequately reduce incoming noise. Hearing protection should be cleaned regularly and protected from damage that may reduce its effectiveness.

HEARING CONSERVATION PROGRAM:

This institution has a written hearing conservation program. Persons enrolled in the program will be tested for hearing loss every year. Audio grams will be conducted with calibrated equipment and interpreted by a qualified physician or audiologist. Test results will be reviewed to determine if an appreciable loss in hearing has occurred. A plan will be developed to conserve your hearing if a loss occurs.

HEARING CONSERVATION PROGRAM

eceived training on Occupational or received an audiometric test and e aware of the dangers of exposure r work day. I have also received
n
re

HEARING CONSERVATION PROGRAM

	, declaro que he recibido entrenamiento e sicion de Ruido Ocupacional (CFR 1910.95). Tambien he tomado una prueb
audio	metrico y el resultados ha sido claramente explicada. Entiendo los peligros sobre liciones a los ruidos ocupacionales sobre 85 decibeles, sobre un periodo equivalentoras de exposicion ha 85 decibles.
	Hearing Conservation
I.	Effectos de Ruido
II.	Prueba Audiometrica
	a. Prueba Basica
	b. Examen Anual
III.	Equipo de Proteccion Personal
	a. Clases de Proteccionb. Procedimiento para uso del Equipo del Proteccion Personal
	c. Mantenimiento del Equipo de Proteccion Personal
IV.	Accessbilidad de Archivos
	luso Fecha

Titulo de Trabajo

HEARING CONSERVATION PROGRAM CONSULTATION SHEET

Employee Na	nme:				
	LAST		FIRST		MIDDLE
Date of Cons	ultation:				
Purpose of Co	onsultation: Circle Below		Month/Day/Year		
Turpose or ex	onsuration. Circle Below				
a.	Failure to wear PPE				
b.	Significant Threshold S	Shift at a	any frequency		
c.	Standard Threshold Sh	ift			
d.	Medical:			_	
e.	Other:			_	
Type and size	e of PPE worn:				
Data of Initia	1 Eitting/Issuer				
Date of Illitia	l Fitting/Issue:		n/Day/Year	-	
Off-the-Job N	Noise Exposure: Circle Be	low			
a. b.	Music/Entertainment Auto Racing	c. d.	Hunting Power Tools	e. f.	
	-	.	10Wel 100lb	•	
Change in PP	PE: Yes/NO New PPE				
Date of Refitt	ting/Issue:				
Date of Renti		/Day Ye			
Medical Refe		J			
Purpose of Re	eferral:				
a.	Evaluation for obstruct	ed oor c	anal		
a. b.	Evaluation for sensory				
	= variation for semsory	11001111			
Other:					
Employee Sig	gnature:				
Supervisor Si	gnature:				

AUDIOMETRIC EXAMNINATION

Location of audio grams:	Audiometer ma	ıke: M	lodel:
Date of last calibration:/_	/ Functional / Ex	haustive	
Last	First		Middle
Department:	Position Title:		
Audio grams Test Date:/ Month	Day Year		
Personal Protective Equipment (PPE):		_
NRR: Exposure dBA	\ :		
Age. PPF.		Exposure TWA:	

Left Ear	Right Ear	
500	500	
1K	1K	
2K	2k	
3K	3K	
4K	4K	
6K	6K	

Hearing History

- 1. Known hearing loss
- 2. Head Injury
- 3. Family member w/hearing loss
- 4. Flu Measles, Mumps, Diabetes, Scarlet Fever, Viral Pneumonia, Otosclerosis Meniere's Ear Infection
- 5. Hearing Aid
- 6. Employee Estimate of hearing: Good Fair Poor

- Medications: Streptomycin Neomycin Excess Aspirin Kanamycin
 Noise exposure history: Military Service Pre. Occ Noise Exposure
 Otoscopic Exam (If conducted) Ear Canal Clear? Ear Drum visible? Inflammation? Scarring of eardrum? Drainage from ear?

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HEARING CONSERVATION PROGRAM CONSULTATION SHEET

10. Ear C	omplicati	ons: Pain in ea	rs Active	Drainage	Tinnitus	Sudd	en hearing loss	Perfora	ıted
ear drum allergies.	•	Fullness in ear	s Excess w	ax Previou	ıs ear su	rgery	Foreign objects	in ear c	anal

Technician Signature:	
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