

DEPARTMENT OF THE ARMY
HEADQUARTERS, FIFTH U.S. ARMY AND FORT SAM HOUSTON
Fort Sam Houston, Texas 78234-5000

FSH Regulation
No. 40-7

15 Oct 93

Medical Services
FORT SAM HOUSTON HEARING CONSERVATION PROGRAM

1. PURPOSE. To outline the components of the Hearing Conservation Program and to delineate the responsibilities for the control of noise hazards and the prevention of hearing loss among military and civilian personnel within commands/activities supported by Headquarters, U.S. Army Garrison, and Fort Sam Houston.

2. APPLICABILITY. This regulation applies to all Army activities supported by HQ, Fifth U.S. Army and Fort Sam Houston.

3. REFERENCES. See Appendix A.

4. GENERAL.

a. The Hearing Conservation Program will be conducted as prescribed by DA PAM 40-501 (reference 4, Appendix A).

b. A partial listing of military and civilian occupations involving routine exposures to hazardous noise is shown at Appendix B.

c. Hearing conservation is a priority occupational health program. Emphasis will be placed on hearing conservation under field conditions as well as the industrial environment. The hearing conservation program is designed to protect the soldier/employee from hearing loss and disability due to occupational noise exposure.

d. Steady noise of 85 decibels or greater on the A-weighted scale (dBA) and impulse noise that exceeds 140 dB peak (dBp) are considered hazardous. High frequency and ultrasonic levels that exceed the exposure criteria in DA PAM 40-501 are also considered hazardous. All individuals working in hazardous noise must be enrolled in the local hearing conservation program.

5. COMPONENTS OF THE HEARING CONSERVATION PROGRAM.

a. Evaluation of Noise-Hazardous Areas. Personnel supervisors, civilian and military, will report all suspected noise-hazardous areas to Preventive Medicine Activity (PVNTMED), Brooke Army Medical Center (BAMC), Attn: HSHE-DHE. The PVNTMED Activity will conduct formal surveys throughout the installation

to determine the existence of noise-hazardous areas and will make suitable recommendations as to the reduction of the hazard, necessity for posting noise-hazard signs, and the utilization of hearing protective devices. A noise survey of all units and shop areas is required at least once, and within 30 days of any equipment change affecting noise levels.

b. Engineering Controls

(1) Effective engineering noise control is the most desirable hearing conservation measure since it can eliminate the hazard and render other elements of the program unnecessary. Whenever feasible, engineering control methods will be used to reduce steady noise levels below 85 dBA and impulse noise levels to below 140 dBP, or the maximum extent possible.

(2) Engineering noise control is generally deemed feasible if implementation is technologically and operationally practicable and cost effective. Since engineering noise control measures may involve significant expenditures, installation planners must establish priorities so that available funds will yield the greatest benefits. Such priorities must be based on factors such as the number of personnel exposed to a particular noise, the noise source, future intended use of the facility, and the risk assessment code assigned to that source. Guidelines for the assessment of risk associated with exposure to high noise levels are discussed in DA PAM 40-501. Services of an acoustical engineer are available through the U.S. Army Environmental Hygiene Agency (USAEHA).

(3) New equipment will be purchased or designed with the lowest possible noise emission levels. Such new equipment, whether purchased through commercial sources, the Federal Supply System, or designed within the Department of the Army, should conform to the acoustical noise limits as prescribed in Military Standard (MIL STD) - 1474. In addition, engineering control measures shall be a consideration in the design of new facilities where there is potential for hazardous noise.

c. Hearing Protective Devices.

(1) All personnel, civilian or military, will be provided hearing protective devices when employed in noise-hazardous areas. An inventory of multiple-sized pre-formed earplugs are available through the Federal Supply System. It is the unit's responsibility to procure hearing protective devices for their personnel. The National Stock numbers for hearing protectors is located in Appendix C. Pre-formed earplugs must be medically fit by trained personnel under the supervision of the Hearing Conservation Officer, BAMC. Earmuffs, helmets and hand-

formed ear plugs (i.e. disposable earplugs such as silicone plugs and yellow/white foam plugs) do not require medical fitting. Adequate supplies of hearing protective devices will be maintained at firing ranges, aboard aircraft, at airfields, at other noise-hazardous areas, and for visitors or individuals who do not have hearing protectors in their possession.

(2) Only hearing protectors which have been approved by the Surgeon General for use by Department of the Army personnel will be provided. Hearing protectors from commercial sources are not recommended since not all have been found to provide adequate sound attenuation, or to be free from toxic effects. Hearing protectors purchased outside the Federal Supply System will also cost considerably more.

(3) Hearing protective devices will be worn in steady noise when levels are 85 dBA or greater and when impulse noise reaches or exceeds 140 dBp, except during actual combat. The wearing of earplugs and earmuffs in combination is required when steady noise exceeds 108 dBA and impulse noise is in excess of 165 dBA. If personnel must be exposed to steady noise levels above 138 dBA, specific approval must be obtained from the Office of the Surgeon General (DASG-PSP).

(4) All personnel routinely exposed to hazardous levels of noise are required to have earplugs displayed as part of the duty uniform.

d. Monitoring Audiometry

(1) Annual audiometric evaluations, using the Hearing Evaluation Automated Registry System (HEARS), will be completed on all personnel, military or civilian, who are routinely exposed to hazardous noise or work in noise-hazardous areas.

(2) The Audiology Section, BAMC, will coordinate with the units to arrange annual audiometric examinations on all noise-exposed personnel. The Audiology Section will provide a written report of "no shows" to unit commanders/supervisors with instructions for completion of testing.

(3) The Audiology Section will schedule military and civilian personnel for follow-up testing as needed.

(4) A pre-employment (baseline) audiogram will be obtained on all civilian employees and a 90-day audiogram will be obtained on all civilian employees assigned to work in a noise-hazardous area by the Occupation Health Section, PVNTMED Activity.

(5) Aviators will be tested through the Office of the Flight Surgeon.

e. Health Education, Supervision, and Discipline. The success of the Hearing Conservation Program is dependent upon vigorous command emphasis and support.

(1) Health education, supervision, and discipline of personnel are of major importance in the prevention of noise-induced hearing loss, especially when reliance is placed upon personal protective measures. The Audiology Section, BAMC, will provide annual briefings regarding the harmful effects of noise to personnel who routinely work in noise-hazardous areas without appropriate use of hearing protective devices. Emphasis will be placed on the permanent nature of noise-induced hearing loss and the proper use of hearing protectors.

(2) In situations where health education measures fail, a wide variety of disciplinary actions are available. In the case of military personnel, disciplinary action may range from a warning or reprimand to suspension, reduction in rank or pay, or removal from the job. When civilian personnel deliberately or carelessly violate regulations regarding the wearing of hearing protective devices, provisions of AR 690-700 may be applicable (See Appendix D).

f. Enforcement. First line civilian supervisors performance standards should include the following responsibilities:

(1) Enforce the use of hearing protectors

(2) Ensures that employees report for scheduled medical examinations.

These responsibilities should also be included in a military supervisor's officer evaluation report or enlisted evaluation report when applicable.

g. Program Evaluation. The HEARS manager's module allows the hearing conservation officer to evaluate program participation, quality assurance, and program effectiveness. These statistics should be provided to the installation medical authority on a periodic basis IAW para. 10-3, DA PAM 40-501.

6. RESPONSIBILITIES

a. The Installation Commander will support the Hearing Conservation Program according to AR 385-10 and AR 40-5.

b. Chief, PRVNTMED Service, BAMC will:

(1) Make suitable recommendations for reduction or elimination of noise-hazardous sources.

(2) Coordinate with the safety personnel of each activity or organization in designating the noise-hazardous areas.

(3) Coordinate with and provide functional assistance to the Audiology Section, BAMC, in group and individual employee educational programs pertaining to hearing conservation.

(4) Maintain liaison with local, state, and federal agencies in reference to hearing conservation and noise control

c. Chief, Industrial Hygiene Section, BAMC will:

(1) Survey all suspected noise-hazardous areas and equipment at least once and within 30 days of any change in operations.

(2) Establish a time-weighted average (TWA) for all noise-hazardous areas and soldiers working in noise-hazardous industrial type operations.

(3) Maintain a current inventory of all noise-hazardous areas using DD Form 2214 (Noise Survey) until the Health Hazard Information Module (HHIM) can accommodate noise information.

(4) Provide the names of noise-exposed personnel and the magnitude of their exposure to--

The Hearing Conservation Officer

The unit commander/supervisor of the individual

(5) Establish risk assessment codes (RACs) and forward the noise survey results, which indicate a violation, to the designated safety and occupational health official for inclusion in the violation inventory log (AR 385-10).

(6) Establish appropriate contours, referencing the range limits of the noise hazardous area, and advise unit commanders/supervisors on how to properly post the noise hazardous signs within these contours.

d. Chief, Occupational Health Section will:

(1) Accomplish civilian pre-employment reference audiograms when requested by the Civilian Personnel Office

(2) Fit and issue pre-formed earplugs to civilian personnel assigned to noise-hazardous areas.

(3) Accomplish 90-day audiograms on civilians personnel assigned to noise-hazardous areas.

(4) Accomplish termination audiograms on civilian personnel who have been provided annual audiometric monitoring for occupation exposure hazardous noise.

(5) Refer all civilian personnel who fail to establish a valid baseline audiogram to the Audiology Section, BAMC, for testing.

(6) Provide information on the ordering and use of disposable earplugs and other types of hearing protective devices/equipment (earmuffs, helmets, etc.) to section supervisors.

(7) Maintain liaison with the Audiology Section program coordination.

e. Chief, Audiology Section, BAMC will:

(1) Provide overall technical guidance and supervision for all aspects of the Hearing Conservation Program.

(2) Ensure that all personnel conducting hearing examinations are trained in the techniques of audiometry and are appropriately certified.

(3) Ensure that all microprocessor audiometers are calibrated in accordance with the schedule cited in para 7-3 of DA PAM 40-501 (annually).

(4) Ensure that proper sound attenuating booths utilized for audiometric testing.

f. The Hearing Conservation Officer, BAMC, will manage and coordinate all aspects of the hearing conservation program outlined in DA PAM 40-501. These responsibilities include:

(1) Ensuring that medically trained personnel conduct all reference, 90-day, annual and termination audiograms for military personnel and all annual audiograms for civilian personnel in the Hearing Conservation Program.

(2) Reviewing all reference, 90-day annual, and termination audiograms, and ensuring patient follow-up on all significant thresholds shifts.

(3) Evaluating all return or "difficult to test" patients referred for the Occupational Health Section, BAMC, for follow-up testing.

(4) Ensuring that medically trained personnel fit individuals with pre-formed earplugs and examine the individuals at least annually to ensure proper earplug condition and fit.

(5) Providing personnel to fit earplugs when requested by individual shops, sections, or units.

(6) Conducting health education briefings on an annual basis to promote an understanding of the Hearing Conservation Program for all units. This will be completed at the time units are scheduled for their annual hearing examinations.

(7) Reporting to commander/supervisors regarding the compliance of their units/sections with the requirement for annual audiometric testing.

(8) Notifying unit commanders/supervisors when audiometric evaluations of personnel indicate that hearing loss exists or will be aggravated by noise exposure, or when a shift in hearing occurs.

(9) Notifying personnel when they have sustained a significant threshold shift in hearing and providing instruction for follow up and for future prevention of further hearing loss.

(10) Conducting unannounced inspections of noise-hazardous areas.

(11) Evaluating program participation, quality assurance, and program effectiveness according to para 10-3, DA PAM 40-501.

g. Unit Commander/Supervisors of Noise-Hazardous areas will:

(1) Notify Chief, PVNTMED activity, BAMC, of suspected noise-hazardous areas. Any area in which persons must raise their voices to be heard at distances less than five feet, or in which personnel report ringing in their ears or have difficulty hearing, should be considered a suspected noise-hazardous area until properly evaluated by personnel from PVNTMED activity, BAMC. Point of contact is the Industrial Hygiene Program Manager, 221-6400/6641.

(2) Ensure that personnel exposed to potentially hazardous noise levels receive the appropriate hearing protection

(to include individual earplugs, which may require fitting by medically trained personnel) and annual audiometric evaluations.

(3) Appoint a unit hearing conservation manager and ensure that this individual:

(a) Inspects earplugs, earmuffs, or helmets to ensure that they are serviceable at all times.

(b) Requisitions hearing protectors and ensures an adequate supply at all times.

(4) Prepare a unit SOP detailing the hearing conservation program.

(5) Purchase new equipment that generates the lowest noise level feasible.

(6) Notify the Industrial Hygiene Section, BAMC, of any suspected hazardous noise levels or changes in hazardous noise levels in their work area.

(7) Maintain a current list of personnel who are routinely exposed to potentially hazardous noise levels, and provide the list to the Audiology Section, upon request.

(8) Upon the advice or recommendation of PVNTMED activity personnel, designate specific areas where the wearing of hearing protective devices is required and post the appropriate noise-hazard signs in accordance with para 2-8, AR 385-30.

(9) Ensure that all personnel use hearing protection in all noise-hazardous locations. Use of hearing protection is also mandatory where ammunition or explosives are discharged or detonated in training, testing, or disposal operations.

(10) Initiate the appropriate disciplinary action on personnel who knowingly and repeatedly violate the provisions of DA PAM 40-501.

(11) Refer any personnel under their jurisdiction to the Audiology Clinic for any hearing problems or complaints associated with the wearing of hearing protectors (221-2796/0336).

(12) Take appropriate action in personnel placement when notified by the Hearing Conservation Officer, or the Occupational Health Section, BAMC, of the results of personnel audiometric examinations.

(13) Ensure that earplugs and earplug carrying cases are part of the battle dress uniform for all military personnel routinely exposed to hazardous levels of noise.

h. Safety Directors/Managers and Safety Officer will:

Conduct unannounced inspections of noise hazardous areas.

(2) Coordinate with the Industrial Hygiene Section, BAMC, to determine the existence of noise-hazardous areas and ensure proper posting of these areas in accordance with AR 385 30.

(3) Notify respective supervisors and unit commanders of noise hazardous areas with their areas of responsibility.

(4) Monitor the use of hearing protective devices to assure compliance with established regulations and report results to the Hearing Conservation Officer.

(5) Establish an abatement program to alleviate the need for hearing protection through engineering controls when advised by the Chief, PVNTMED activity, that such controls are feasible.

Civilian Personnel Officer will:

(1) Ensure that the Occupational Health Section is included on the inprocessing and outprocessing checklists for new, transferring, or terminating personnel, so that they may perform reference, 90-day, pre-transfer or termination audiograms, when appropriate.

(2) Take appropriate personnel action when notified by the Hearing Conservation Officer or Chief, PVNTMED activity, that an individual has sustained a hearing loss which may be aggravated by additional exposure to hazardous noise.

(3) Include the requirements for the wearing of hearing protective devices and periodic audiometric tests (to be administered by installation medical personnel) in the job descriptions of all individuals working in noise-hazardous areas.

Enforce the use of hearing protection.

(5) Provide guidance and advice to supervisors in disciplining employees who deliberately or carelessly violate regulations regarding the wearing of hearing protective devices in required areas or when using noise-hazardous equipment.

FSH Reg 40

(6) Ensure that employees report for mandatory medical examinations.

(7) Inform the IMA and safety officer of all worker's compensation claims for hearing loss.

j. The Director of Engineering and Housing will:

(1) Erect and maintain danger signs per paragraph 4-6a, DA PAM 40-501.

(2) Implement, whenever feasible, acoustical engineering control measures when exposures to steady noise exceed the time-weighted criteria provided in DA PAM 40-501.

k. The Flight Surgeon will:

1. Arrange annual audiometric examinations for all aviators

(2) Enforce the effective use of hearing protection among aviators.

l. Noise-exposed personnel will:

(1) Wear approved and properly fitted hearing protectors when exposed to hazardous noise levels.

(2) Report for all scheduled medical examinations and health education briefings concerning hearing conservation.

(3) Report any hearing problems or difficulties associated with hearing protectors to their supervisors.

(4) Maintain hearing protectors in a sanitary and serviceable condition.

(5) Wear noise dosimeters to evaluate noise exposure requested.

APPENDIX A

REFERENCES

1. OSHA - Occupational Safety and Health Act. Contains the rules for occupational noise exposure.
2. Executive Orders - Signed by the President. Makes OSHA applicable to ALL government agencies.
3. DODI - Department of Defense Instruction, Hearing Conservation. Provides the authority for the Army Hearing Conservation Program.
4. DA PAM 40-501, Hearing Conservation, 27 Aug. 1991. The Army's implementing document for DODI.
5. AR 40-3, Medical, Dental, and Veterinary Care. Provides medical treatment category and authority for military and DA civilian employees.
6. AR 40-5, Preventive Medicine. The authority for DA PAM 40-501.
7. AR 40-501, Standards of Medical Fitness. Provides profiling guidance for hearing loss.
8. AR 385-10, Army Safety Program. Delineates responsibility for the overall supervision of OSHA and the Army Hearing Conservation Program to the Army Director of Safety.
9. AR 385-30, Safety Color Code Markings and Signs. Provides specifications for danger signs.
10. AR 385-40, Accident Reporting and Records. Gives direction concerning accident and incident reporting.
11. AR 385-63, Policies and Procedures for Firing Ammunition for Training, Target Practice and Combat. Provides policies and procedures for firing ammunition; requirement to wear hearing protective devices.
12. AR 420-70, Buildings and Structures. Give authorization for acoustical treatment; provides responsibility for erection of danger signs to the director of engineering and housing.

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13. AR 611-101, Commissioned Officer Specialty Classification System. Provides PULHES classification relative to officer areas of concentration.

14. AR 611-201, Enlisted Specialty Classification System. Provides PULHES classification relative to enlisted military occupation specialties.

15. AR 670-1, Wear and Appearance of Army Uniforms and Insignia. Provides guidance for wear of the earplug case on the battle dress uniform.

16. AR 690-700, Personnel Regulations and Services (General). Contains tables of penalties for civilian employees when offenses are committed.

17. TB 746-93-2, Painting and Marking of Army Aircraft. Provides guidance in posting danger decals in Army Aircraft.

18. MIL STD 1474B (MI), Noise Limits for Army Materiel. Sets noise limits for Army materiel.

19. ANSI Standard S1.25 - 1978, Specification for Personal Noise Dosimeters. Provides the specifications for purchase of noise dosimeters.

20. ANSI Standard S1.4 - 1983, Specification for Sound Level Meters. Provides specification for Type I and Type II sound level meters used within the Army.

21. Title 38. Part 4.87a, revised 1 July 1988, Code of Federal Regulations. Establishes ratings for disability for hearing loss in military personnel under the Veterans Affairs System.

APPENDIX B

MILITARY AND CIVILIAN OCCUPATIONS INVOLVING ROUTINE EXPOSURES TO HAZARDOUS NOISE

The requirement for reference (baseline) and periodic (at least annual) audiometric evaluations are based on the assumptions that individuals are working in their designated occupations and that their duties include the usual activities of that occupation. However, no claim of all-inclusiveness is made. Given unique circumstances, individuals working in occupations not listed here could also be routinely exposed to hazardous noise and require audiometric monitoring.

ENLISTED MOS TITLES

11B	Infantryman	22N	Nike-Hercules Missile Launcher Repairer
11C	Indirect Fire Infantryman	23N	Nike Track Radar Repairer
11H	Heavy Antiarmor Weapons Crewman	23Q	Hawk Fire Control Repairer
12B	Combat Engineer	23S	Hawk Pulse Radar Repairer
12C	Bridge Crewman	23T	Hawk Continuous Wave Radar Repairer
12E	Atomic Demolition Munitions Specialist	23U	Nike High Power Radar-Simulator Repairer
12Z	Combat Engineering Senior Sergeant	23V	Hawk Maintenance Chief
13B	Cannon Crewman	23W	Nike Maintenance Chief
13E	Cannon Fire Direction Specialist	24B	Hawk Continuous Wave Radar Mechanic
13F	Cannon Fire Support Specialist	24C	Improved Hawk Firing Section Mechanic
13W	Field Artillery Target Acquisition Senior Sergeant	24D	Hawk Missile-Launcher Mechanic
13Y	Cannon/Missile Senior Sergeant	24E	Improved Hawk Fire Control Mechanic
13Z	Field Artillery Senior Sergeant	24F	Hawk Fire Control System Mechanic
15B	Sergeant Missile Crewman	24G	Improved Hawk Information Coordination Central Mechanic
15D	Lance Missile Crewman	24H	Improved Hawk Fire Control Repairer
15E	Pershing Missile Crewman	24J	Improved Hawk Pulse Radar Repairer
15F	Honest John Rocket Crewman	24K	Improved Hawk Continuous Wave Radar Repairer
15J	Lance/Honest John Operations/Fire Direction Specialist	24L	Improved Hawk Launcher/Mechanical Systems Repairer
16B	Hercules Missile Crewman	24M	Vulcan/Faar System Mechanic
16C	Hercules Fire Control Crewman	24N	Chaparral System Mechanic
16D	Hawk Missile Crewman	24P	Defense Acquisition Radar Mechanic
16E	Hawk Fire Control Crewman	24Q	Nike-Hercules Fire Control Mechanic
16F	Light Air Defense Artillery Crewman	24U	Hercules Electronics Mechanic
16H	ADA Operations and Intelligence Assistant	24V	Improved Hawk Maintenance Chief
16J	Defense Acquisition Radar Crewman	26K	Aerial Electronic Warning/Defense Equipment Repairer
16P	ADA Short Range Missile Crewman	26V	Strategic Microwave Systems Repairer
16R	ADA Short Range Gunnery Crewman	31J	Teletypewriter Repairer
16Z	ADA Senior Sergeant	34B	Tabulating Equipment Repairman
17B	Field Artillery Radar Crewman	34E	NCR 500 Computer Repairman
17C	Field Artillery Target Acquisition Specialist	34F	DSTE Repairman
17L	Aerial Sensor Specialist (OV-1B/C)	34H	ADMSE Repairer
17M	Unattended Ground Sensor Specialist	34J	Univac 1004/1005 DCT 9000 System Repairman
19D	Cavalry Scout	34K	IBM 360 Repairman
19E	M48-M60A1/A3 Armor Crewman	34L	ADMS Peripheral Equipment Repairman
19F	Tank Driver	34Z	ADP Maintenance Supervisor
19G	Armor Reconnaissance Vehicle Crewman	35K	Avionic Mechanic
19H	Armor Reconnaissance Vehicle Driver	41J	Office Machine Repairman
19J	M60A2 Armor Crewman	41K	Reproduction Equipment Repair Specialist
19Z	Maneuver Combat Arms Sergeant	42C	Orthotic Specialist
21G	Pershing Electronics Materiel Specialist	42D	Dental Laboratory Specialist
21L	Pershing Electronics Repairer		
22K	Hawk Missile and Launcher Repairer		
22L	Nike Test Equipment Repairer		

ENLISTED MOS TITLES (CONTINUED)

42E	Optical Laboratory Specialist	63J	Quartermaster Equipment Repairman
43E	Parachute Rigger	63Z	Mechanical Maintenance Supervisor
43M	Fabric Repair Specialist	64C	Motor Transport Operator
44B	Metal Worker	64Z	Transportation Senior Sergeant
44E	Machinist	65B	Locomotive Repairman
45B	Small Arms Repairman	65D	Railway Car Repairman
45K	Tank Turret Repairman	65E	Airbrake Repairman
45L	Artillery Repairman	65F	Locomotive Electrician
45N	Tank Turret Mechanic	65G	Railway Section Repairman
45P	Sheridan Turret Mechanic	65H	Locomotive Operator
45R	Missile Tank Turret Mechanic	65J	Trainman
45Z	Armament Maintenance Foreman	65K	Railway Movement Coordinator
46N	Pershing Electrical-Mechanical Repairer	65Z	Railway Senior Sergeant
51B	Carpentry and Masonry Specialist	67G	Airplane Repairer
51C	Structures Specialist	67N	Utility Helicopter Repairer
51G	Materials Quality Specialist	67U	Medium Helicopter Repairer
51H	Construction Engineering Supervisor	67V	Observation/Scout Helicopter Repairer
51M	Firefighter	67W	Aircraft Quality Control Supervisor
51N	Water Treatment and Plumbing Systems Specialist	67X	Heavy Lift Helicopter Repairer
51P	Utilities Engineering Supervisor	67Y	Attack Helicopter Repairer
51R	Electrician	67Z	Aircraft Maintenance Senior Sergeant
51T	Technical Engineering Supervisor	68B	Aircraft Powerplant Repairer
51Z	General Engineering Supervisor	68D	Aircraft Powertrain Repairer
52C	Utilities Equipment Repairer	68F	Aircraft Electrician
52D	Power Generation Equipment Repairer	68G	Aircraft Structural Repairer
52E	Prime Power Production Specialist	68H	Aircraft Pseudraulics Repairer
54C	Smoke and Flame Specialist	68J	Helicopter Missile System Repairer
54D	Chemical Equipment Repairman	68K	Aircraft Components Repair Supervisor
54E	Chemical Operations Specialist	68M	Helicopter Weapon Systems Repairer
55B	Ammunition Specialist	74B	Card and Tape Writer
55D	Explosive Ordnance Disposal Specialist	74D	Computer/Machine Operator
55G	Nuclear Weapons Maintenance Specialist	76V	Storage Specialist
55X	Ammunition Inspector	76W	Petroleum Supply Specialist
55Z	Ammunition Foreman	76X	Subsistence Supply Specialist
57E	Laundry and Bath Specialist	83E	Photo and Layout Specialist
57F	Graves Registration Specialist	83F	Photolithographer
57H	Terminal Operations Coordinator	91E	Dental Specialist
61B	Watercraft Operator	91H	Orthopedic Specialist
61C	Watercraft Engineer	91L	Occupational Therapy Specialist
61F	Marine Hull Repairman	95B	Military Police
61Z	Marine Senior Sergeant	95C	Correction Specialist
62B	Construction Equipment Repairer	95D	Assistant Special Agent
62E	Heavy Construction Equipment Operator	96H	Aerial Sensor Specialist (OV-ID)
62F	Lifting and Loading Equipment Operator	98G	EW/SIGINT Voice Interceptor
62G	Quarrying Specialist	98J	EW/SIGINT Noncommunications Interceptor
62H	Concrete and Asphalt Equipment Operator	98Z	EW/SIGINT Chief
62J	General Construction Equipment Operator	00B	Diver
62N	Construction Equipment Supervisor	02B	Coronet or Trumpet Player
63B	Power Generation and Wheel Vehicle Mechanic	02C	Baritone or Euphonium Player
63C	Track Vehicle Mechanic	02D	French Horn Player
63F	Recovery Specialist	02E	Trombone Player
63G	Fuel and Electrical Systems Repairman	02F	Tuba Player
63H	Automotive Repairman	02G	Flute or Piccolo Player
		02H	Oboe Player
		02J	Clarinet Player

ENLISTED MOS TITLES (CONTINUED)

02K	Basoon Player	02T	Guitar Player
02L	Saxophone Player	02Z	Enlisted Band Leader
02M	Percussion Player	05C	Radioteletype Operator
02N	Piano Player	05D	EW/SIGINIT Emitter Identifier/Locator
02P	Brass Group Leader	05G	Signal Security Specialist
02Q	Woodwind Group Leader	05H	EW/SIGINIT Morse Interceptor
02R	Percussion Group Leader	05K	EW/SIGINIT Non-Morse Interceptor
02S	Special Bandsperson		

WARRANT OFFICERS MOS TITLES

100B	Utility/Observation Helicopter Pilot	287A	Data Processing Systems Repair Technician
100C	Cargo Helicopter Pilot	401A	Airdrop Equip Repair Technician
100D	Heavy Lift Helicopter Pilot	421A	Armament Repair Technician
100E	Attack Helicopter Pilot	441A	Repair Shop Technician
100Q	Combat/Service Support Fixed Wing Pilot	500A	Marine Deck Officer/Vessel Master/Harbor Master/Pilot
100R	Combat Surveillance Fixed Wing Pilot	510A	Marine Engineering Officer/Marine Inspector
160A	Aviation Maintenance Technician	621A	Engineer Equipment Repair Technician
211A	Target Acquisition Radar Technician	630A	Automotive Repair Technician
214E	Missile System Technician, Pershing	741A	Data Processing Technician
214G	Missile System Technician, Lance/Sergeant	951AS	Firearms and Toolmark Examiner
221B	Missile Assembly Technician, Nike/Safeguard	984A	Morse Intercept Technician
222B	Missile Fire Control Technician, Nike	985A	Non-Morse Intercept Technician
223B	Missile System Technician, Improved Hawk	986A	Emitter Location/Identification Technician
224B	Short Range Air Defense Systems Technician	988A	Voice Intercept Technician
252A	Calibration Technician	031A	Bandmaster
260A	Nuclear Weapons Technician		

COMMISSIONED OFFICERS SSI TITLES

11A	Infantry, General	31A	Law Enforcement
11B	Light Infantry	31B	Correctional
11C	Mechanized Infantry	31C	Criminal Investigation
12A	Armor	31D	Physical Security
12B	Armor Unit	42C	Army Band
12C	Cavalry Unit	48E	Unconventional Warfare
13A	Cannon Field Artillery	51C	Experimental Test Pilot
13B	Light Missile Field Artillery	52A	Nuclear Weapons and Effects Staff
13C	Heavy Missile Field Artillery	52B	Nuclear Research
13D	Field Artillery Target Acquisition	61M	Orthopedic Surgeon
13E	Field Artillery, General	63A	Dental
14A	Air Defense Artillery, General	63B	General Dental
14B	SHORAD	63C	Oral Medicine
14C	Nike Hercules Missile Air Defense Artillery	63D	Periodontist
14D	Hawk Missile Air Defense Artillery	63E	Endontist
14E	Safeguard Ballistic Missile Air Defense Artillery	63F	Prosthodontist, Fixed
14F	Guided Missiles Systems	63G	Prosthodontist, Removable
14G	Air Defense Artillery Command and Control	63M	Orthodontist
15A	Aviation Officer, General	63N	Oral Surgeon
15B	Combat Aviation	63P	Oral Pathologist
15C	Combat Support Aviation	63R	Executive Dental Officer
15D	Combat Service Support Aviation	65A	Occupational Therapist
21A	Combat Engineer	68M	Audiologist
21B	Construction Engineer	71A	Aviation Materiel Management
21C	Engineer Management	73A	Missile Materiel Management
21D	Topographic Engineer	75D	Explosive Ordnance Disposal
25A	Combat Signal	76A	Armament Materiel Management

COMMISSIONED OFFICERS SSI TITLES

(CONTINUED)

77A	Tank/Ground Mobility Materiel Management	83C	Parachute Maintenance and Aerial Supply
77B	Tank Automotive Materiel Management	87A	Marine and Terminal Operations
77C	Ground Support Materiel Management	88C	Railway Maintenance of Way Superintendent
83A	General Troop Support Materiel Management, General	88E	Railway Maintenance Management
	General Troop Support Materiel Management	91A	Maintenance Management
		93C	Laundry and Bath

GS SERIES

083	Police	1820	Safety Inspector
085	Guard	1899	Boiler Inspector
018	Safety Management	1903	Quality Control and Inspection Management
019	Safety Technician	1910	Quality Assurance Specialist
332	Computer Operations	1920	Materials Quality Control and Inspection
456	Forest and Range Fire Control	1940	Mechanical Equipment Quality Control and In- spection
460	Forester		Aircraft Quality Control and Inspection
462	Forestry Aid/Technician	1942	Ordnance Quality Control and Inspection
470	Soil Scientist	1947	Ammunition Quality Control and Inspection
664	Restoration Technician	1948	Missile Quality Control and Inspection
665	Speech Pathology and Audiology	1950	Space System Quality Control and Inspection
667	Orthotist-Prosthetist	1955	Quality Inspection Specialist
680	Dental Officer	1960	Metallic Materials Treatment Processes Quality Control and Inspection
681	Dental Assistant	1965	Packaging Specialist
682	Dental Hygienist		Air Traffic Control Specialist
683	Dental Lab Aid/Technician	2131	Marine Cargo Assistant/Specialist
690	Industrial Hygienist	2152	Aircraft Operator
1810	Investigator	2161	
1811	Criminal Investigator	2181	

WG SERIES

2509	Teletypewriter Installing and Repairing	3430	Tool and Gage Checker
2510	Wire Chief	3431	Machine Tool Operator
2616	Motion Picture Sound Transmission Installer and Repairer	3433	Machine Tool Inspecting
		3502	Laborer
2619	Electronic-Mechanical Communications Equip- ment Installer and Repairer	3566	Janitor
		3602	Cement Finisher
2802	Electrician, Marine	3653	Asphalt Worker
2810	Electrician (high voltage)	3702	Flame Cutter
3103	Shoe Repairing	3703	Welder
3105	Fabric Worker	3704	Blacksmith
3106	Upholsterer	3705	Welding Inspector
3111	Sewing Machine Operator	3707	Metallizing
3114	Mattress Repairer	3708	Foundry Worker
3359	Instrument Mechanic	3709	Cast Room Working
3403	Model Maker, Metal	3710	Furnace Tender, Foundry
3405	Pattern Maker, Metal	3711	Electroplater
3406	Buffing and Polishing	3712	Heat Treater
3407	Coil or Wire Machine Operating	3713	Chipper
3416	Automotive Machinist	3720	Brazer and Solderer
3412	Instrument Maker and Repairer	3721	Shrink Pit Operator
3413	Machined Parts Inspecting	3722	Cold Worker
3414	Machinist	3723	Casting Machine Operator
3416	Tool Maker	3802	Drop Hammer Operating
3417	Tool Grinding and Repairing	3803	Punch Press Operating
3420	Layout Man	3804	Coppersmithing
3422	Power Saw Operating	3806	Sheet Metal Mechanic
3428	Die Sinker	3807	Structural Iron Worker

WG SERIES (CONTINUED)

3808	Boilermaker	4702	Construction Supervising
3809	Mobile Equipment Metal Mechanic	4703	Construction and Maintenance Supervising
3810	Forgings Heater	4704	Maintenance Supervising
3812	Press Operator	4705	Maintenance Inspector
3814	Automotive/Engineer Equipment Radiator Repairer	4706	River and Harbor Construction Supervising
3815	Riveter	4712	Instrument Maker
3820	Shipfitter	4714	Model Maker
3904	Studio Sound Room Man	4804	Garden Equipment Repairing
3906	Property Man Drapery	4806	Office Appliance Repairer
3910	Motion Picture Projectionist	4812	Saw Reconditioner
4002	Blocking (Optical Elements)	4813	Office Appliance Inspector
4005	Polishing (Optical Elements)	5003	Gardener
4006	Grinding (Optical Elements)	5004	Cemetery Caretaking
4010	Spectacle Lens Bench Working	5026	Pest Controller
4011	Spectacle Lens Surfacing	5210	Rigger
4102	Painter	5212	Laboratory Worker
4104	Sign Painter	5220	Shipwright
4105	Paint Miller	5306	Air Conditioning Equipment Mechanic
4203	Insulator	5307	Shoe Machine Repairing
4204	Pipefitter	5308	Gas Appliance Repairer
4303	Model Making (Plastic)	5309	Heating and Boiler Plant Equipment Mechanic
4351	Plastic Molding	5312	Sewing Machine Repairer
4352	Plastic Working	5317	Laundry and Dry Cleaning Equipment Mechanic
4402	Binding Working	5318	Lock and Dam Maintenance and Repairing
4403	Compositor	5321	Laundry and Dry Cleaning Equipment Inspec- tor
4404	Draftsman, Offset	5313	Oiler and Greaser
4405	Film Assembly-Stripping	5324	Hydroelectric Powerhouse Mechanical Equip- ment Repairer
4406	Press Operator, Printing	5326	Bridge Repairer
4407	Linotype Operating	5352	Equipment Mechanic
4410	Monotype Casting Machine Operator and Repairer	5378	Powered Support Systems Mechanic
4411	Monotype Keyboard Operator	5402	Boiler Fireman
4412	Mimeograph Operator	5402	Boiler Plant Operator
4417	Press Operating Offset	5403	Incinerator Operator
4418	Printing Plant Equipment Mechanic	5406	Utility Systems Operator
4423	Pantographer	5408	Sewage Disposal Plant Operator
4424	Multigraph Operator	5409	Water Treatment Plant Operator
4425	Photoengraver	5410	Asphalt Plant Operator
4504	Tire and Tube Repairing	5411	Air Compressor Operator
4602	Blocker and Bracer	5412	Coal Unloader Operator
4603	Boat Repairer	5414	Baling Machine Operator
4604	Woodworker	5416	Coffee Plant Equipment Operator
4605	Woodcraftsman	5417	Parts and Equipment Steam Cleaner Operator
4606	Carpenter, Manual	5420	Alum Plant Operator
4607	Carpenter	5423	Sandblaster
4608	Sawmill Operator	5426	Lock and Dam Operator
4610	Carpenter, Studio	5431	Furnace Tender, Popping Plant
4613	Furniture Repairer	5434	Baking Equipment Operator
4614	Model Maker, Wood	5435	Carton and/or Bag Mixing Machine Operator
4616	Patternmaker	5440	Packaging Machine Operator
4618	Woodworking Machine Operator	5502	Drilling Machine Operator
4619	Wood Body Repairer	5503	Scalper Machine Operator
4620	Shoe Last Repairer	5505	Crusher Operating
4622	Crating Inspector		

WG SERIES (CONTINUED)

5704	Forklift Operator	5924	Revetment Working
5705	Tractor Operator	5925	Shipkeeping
5706	Road Sweeper Operator	5926	Wiper-Oiler
5707	Tank Driving	5927	Quarterboat Utilities Operator
5713	Concrete or Mortar Mixing Operator	5928	Scowman
5715	Diesel Tender Operator	5929	Master-Mate Snagboat
5716	Engineering Equipment Operator	5930	Debris Worker, Marine
5725	Crane Operator	5931	Dockhand
5718	Crane Groundsman	5932	Dockmaster
5729	Drill Rig Operator	6003	Brakeman and Conductor
5730	Core Drill Inspector	6004	Locomotive Engineer
5732	Pneumatic Tool Operating	6103	Locomotive Inspecting
5802	Engineer Equipment Inspecting	6104	Locomotive Repairing
5803	Heavy Mobile Equipment Mechanic	6105	Railroad Car Repairing
5806	Mobile Equipment Servicer	6106	Railroad Repairer
5808	Combat Vehicle Inspector	6150	Railroad Maintenance Vehicle Operator
5809	Combat Vehicle Mechanic-Fuel and Electrical Systems	6202	Fender Maker
5814	Automotive Equipment Inspecting	6206	Loftsman
5818	Automotive or Engineer Equipment Repairing-Fuel and Electrical Systems	6207	Pier Facilities Worker
5823	Automotive Mechanic	6208	Diver
5827	Drill Equipment Repairer	6210	Marine Equipment Inspector
5857	Powered Ground Equipment Repairer	6502	Explosives Operator
5858	Powered Ground Equipment Inspector	6505	Munitions Destroyer
5902	Amphibian Truck Operator	6506	Ammunition Loading Inspector
5903	Boat Operating	6517	Explosives Test Operator
5904	Bucket Dredge Operator	6604	Artillery Inspector
5905	Deck Equipment Operator	6605	Artillery Repairer
5906	Deckhand	6606	Civilian Gunner
5907	Derrickboat Operator	6609	Small Arms Inspector
5908	Dipper Dredge Operator	6610	Small Arms Repairer
5909	Dredging Equipment Operating	6611	Mechanical Fuze Installer and Repairer
5910	Barge Operator	6641	Ordnance Equipment Mechanic
5911	Engineer, Diesel	6652	Aircraft Ordnance Systems Mechanic
5912	Engineer, Diesel Electric	6903	Coal Handling
5913	Engineer, Steam	6910	Warehouse Forklift Operating
5914	Engineer, Steam Electric	6911	Salvage Processer and Laborer
5915	Fireman-Water Tender	6912	Material Sorter and Classifier
5916	Hyacinth Removal Plant Operator	7009	Equipment Cleaner
5917	Master-Mate Mopper Dredge	7304	Laundry Worker
5918	Master-Mate Large Survey Boats, Towboats, Tugs	7305	Laundry Machine Operator
5919	Master-Mate Pipeline Dredge	7306	Presser
5920	Pile Driver, Floating Plant	7307	Dry Cleaning
5921	Pilot	7351	Laundry Operating
5922	Pipeline Man	7407	Meatcutter
5923	Quartermaster	8255	Pneumatic Systems Mechanic
		8260	Aircraft Pneumatic Systems Mechanic
		8352	Aircraft Mechanic

Table C-1
Hearing protectors

Type of protector	Requisition publication ²	Nomenclature	National Stock Number (NSN)	Available sizes
Single-flange earplugs	A and B	Earplug, hearing protection, single-flange, 24s	NSN 6615-00-442-4765	extra small (white)
			NSN 6515-00-467-0085	small (green)
			NSN 6515-00-467-0089	medium (orange)
			NSN 6515-00-442-4807	large (blue)
			NSN 6515-00-442-4813	extra large (red)
Triple-flange earplugs	A and B	Earplug, hearing protection, triple-flange, 24s	NSN 6515-00-442-4821	small (green)
			NSN 6515-00-442-4818	medium (orange)
			NSN 6515-00-467-0092	large (blue)
Foam earplugs	A and B	Earplug, hearing protection, yellow/white, 400s	NSN 6515-00-137-6345	
Silicone earplugs	A and B	Earplug, silicone rubber, hearing protection, cylindrical, disposable, 48s and 200s	NSN 6515-00-135-2612	
			NSN 6515-00-181-8058	
Ear canal caps	A and B	Ear canal caps, hearing protection	NSN 6515-00-392-0726	
			NSN 6515-00-181-8058	
Noise muffs	C	Aural protector, sound Type II	NSN 4240-00-022-2946	
Headsets	C	Noise attenuating headset/microphone	NSN 5965-00-168-9624	
Helmets	C and D	Helmet, flyers, crash type (SPH-4)	NSN 8415-00-144-4981	regular
			NSN 8415-00-144-4985	extra large
		Helmet, combat vehicle crewmans (DH-132)	NSN 8415-00-094-2679	small
			NSN 8415-00-094-2691	medium
			NSN 8415-00-094-2684	large
Eyeglass temple adapters	C	Pad, protective ear piece	NSN 6540-01-094-8292	

- Authority for purchase and issue is AR 385-10, paragraph 6-2
- A = Federal Supply Catalog C-6515-1L C = Army Master Data File
B = Common Table of Allowances 8-100 D = Supply Bulletin 700-20
- Requisition requires approval of hearing conservation officer

APPENDIX D

a. If civilian employees violate hearing protector requirements, the provisions of AR 690-700 may apply. Table 9-1 highlights penalties for various offenses.

b. If soldiers violate hearing protector requirements, the chain of command applies the appropriate disciplinary action.

Table 9-1
Penalties for various offenses

Violation of written administrative rules or regulations where safety to persons or property:	Penalties		
	First offense	Second offense	Third offense
Is not endangered	Written reprimand to 1 day suspension	1-14 day suspension	5 day suspension
Is endangered	Written reprimand to removal	30 day suspension to removal	Removal

The proponenet of this regulation is the Directorate of Health Services. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to the Commander, Fifth U.S. Army and Fort Sam Houston, ATTN: HSHS-SDT-A, Fort Sam Houston, TX 78234-5000.

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