

**STATE OF FLORIDA
DEPARTMENT OF MILITARY AFFAIRS
Office of the Adjutant General
St. Francis Barracks, P.O. Box 1008
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SAAO-S

1 February 1985

Florida National Guard Pamphlet 40-5-1

Issued: 1 February 1985 (Supersedes FNG Pamphlet 40-5-1 dated 15 December 1983)

SUBJECT: Florida Army National Guard Hearing Conservation Program

1. References:

- a. AR 40-5 – Health & Environment – dated September 1974
- b. AR 385-30 – Safety Color Code Markings and Signs – dated September 1984
- c. TB Med 501 – Hearing Conservation – dated March 1980
- d. Department of the Army Pamphlet 385-3 – Protective Clothing and Equipment dated May 1976
- e. FNG Circular 385-10 – Florida Army National Guard Safety Program – dated January 1983
- f. FNG Circular 385-3 – Florida Army National Guard Medical Surveillance Program dated August 1982.

2. Purpose: To establish and outline policies of the Florida Army National Guard (FLARNG) for the control of noise hazards and the prevention of hearing loss among military and technician personnel

3. Scope: This regulation is applicable to all FLARNG personnel that are routinely exposed to hazardous noise during the course of their employment or performance of duty where hazardous noise areas have been identified (See appendix A.)

4. Authority for the Program: AR 40-5, health and Environment, prescribes a comprehensive hearing conservation program for all Department of the Army (technician and military) personnel. The Adjutant General, Commanders and facility supervisor are responsible for the implementation of the program. Essential features and guidelines for hearing conservation programs are presented in TB Med 501, Hearing Conservation. In addition, Executive Order 12196 requires that all Federal Agencies comply with the Occupational Safety and Health Act of 1970. Standards for hearing conservation are presented in Section 1910.95, Occupational Noise Exposure.

5. Program Functions: Hearing conservation measures will be initiated whenever hazardous noise levels are known or suspected. Whenever feasible, hazardous noise levels will be eliminated or reduced by engineering noise control methods. Hearing protective

devices capable of reducing noise to acceptable levels shall be worn during exposure to hazardous noise levels.

6. Background:

a. Experience had shown that noise levels from such equipment as hand and shoulder fired weapons, artillery weapons, generators, combat and tactical vehicles, construction equipment and helicopters are of such high intensity that they can cause permanent loss of hearing in those individuals who operate them without suitable hearing protection.

b. Permanent hearing loss is frequently not recognized by the individual until it interferes with his ability to the understand commands.

7. Responsibilities:

a. The State Surgeon will:

- (1) Provide technical guidance and assistance as applicable in accordance with TB Med 501.
- (2) Notify Support Personnel Management Office (SPMO), commanders and supervisors when an audiometric evaluation indicated that a significant hearing loss exist. (para 9, TB Med 501)
- (3) Coordinate with USPFO to insure availability of hearing protective devices and insure that these devices are properly fitted by medical personnel.
- (4) Promote understanding of the Hearing Conservation Program by health education and supervision.
- (5) Monitor the use of hearing protective devices and audiometric testing.

b. The State Safety Manager will:

- (1) Coordinate with the State Surgeon to determine the existence of noise hazardous areas and control entrance thereto by posting color coded warning signs, in accordance with AR 385-30, designating the area as noise hazardous.
- (2) Notify respective supervisors and unit commanders of noise hazardous areas within their areas of responsibility.
- (3) Conduct appropriate inspections and surveys to determine the existence of noise hazardous areas.

- (4) Evaluate hazardous noise levels and make suitable recommendations for their elimination.
 - (5) Monitor, with unannounced on-the-spot inspections, the use of hearing protective devices to assure compliance with established regulations.
 - (6) Maintain an inventory of all hazardous noise areas, noise levels, assigned personnel, and types of hearing protectors required.
- c. The Occupational Health Nurse will:
- (1) Ensure all personnel routinely exposed to noise hazards be evaluated periodically as prescribed by FNG Circular 385-3, Medical Surveillance Program.
 - (2) Conduct noise surveys, maintain DD Form 2214 Noise Survey Records, and make suitable recommendations for noise hazards elimination.
 - (3) Provide health education and training in Hearing Conservation.
 - (4) Assist in providing resources for training and fitting hearing protective devices.
- d. Unit Commanders/Activity Supervisors will:
- (1) Commanders have the ultimate responsibility for the health and welfare of personnel under their command.
 - (2) Insure that military and technician personnel working in noise hazardous areas are provided with periodic audiometric evaluation and hearing protective devices.
 - (3) Insure that noise hazardous areas are posted and all personnel entering these areas wear hearing protective devices.
 - (4) Insure that hearing protectors and carrying cases are part of the field uniform for all military personnel exposed to hazardous noise.
 - (5) Supervise for compliance, the use of hearing protective devices while working in hazardous noise.
 - (6) Notify the FLARNG Safety Office of any suspected hazardous noise levels and request a noise survey.
 - (7) Maintain a current inventory of all hazardous noise areas, noise levels recorded (DD 2214) type of hearing protectors required in these areas, and a current roster of personnel assigned duties within their areas.

- (8) Provide disposable hearing protectors for visitors to noise hazardous areas.
- e. FLARNG technicians, AGR and IDT personnel will:
 - (1) Exercise all necessary precautions and wear authorized and properly fitted hearing protective devices when exposed to hazardous noise levels.
 - (2) Maintain hearing protective devices properly.
 - (3) Report for audiometric examinations as scheduled.
 - (4) Report any hearing problems associated with hearing protectors to supervisors.

8. Support and Assistance

a. Commanders and supervisors may obtain support in the initiation and assistance of hearing conservation programs by submitting a request to this headquarters, ATTN: Safety Office. Request should be in writing and indicate type of assistance required. The safety office can provide resource information regarding personnel qualified to fit hearing protectors, conduct educational programs, and conduct noise surveys of the work area.

b. Commanders will obtain medical support for the fitting of hearing protective devices from qualified medical personnel within their command. The clinical audiologist presently attached to the headquarters, STARC (-), FLARNG is available to personally fit hearing protectors on a limited basis and to train medical personnel in the proper clinical procedure of fitting hearing protection devices. He will schedule these visits to individual units within drill status or during Annual Training periods.

9. Policy:

a. The prevention of hearing loss from exposure to noise involves the coordinated application of noise hazard evaluation, posting of noise hazardous areas, the use of hearing protective devices and monitoring audiometry supplemented by health education, supervision and discipline of personnel. Since most military personnel are exposed to hazardous noise levels at some time during their military duties, individuals should be fitted with and retain possession of earplugs as an item of individual equipment. Civilian personnel scheduled for employment in noise hazardous areas of operations should be fitted at the time of their replacement audiometric evaluation or before beginning their duties.

b. The triple-flange hearing protectors are available in large, regular and small sizes and is recommended as the first earplug medical personnel should attempt to fit. Commanders/supervisors will insure that disposable hand formed hearing protectors will be used as an interim measure until personnel are properly fitted with the triple-flange hearing protectors by qualified medical personnel.

c. In the event that a person cannot be fitted with the triple-flange hearing protectors due to ear canal deformity or other medical problem, the individual will be referred to proper medical authority for evaluation by a physician and/or audiologist for alternate means of hearing protection.

d. During the fittings and issuance of hearing protectors, a brief orientation will be conducted stressing the need to use the hearing protectors in high intensity noise areas.

e. After the fitting and issuance of the protective devices, Guard personnel should be given printed instructions on proper insertion, manipulation and care of the ear protectors as well as information on hearing loss caused by noise exposure.

f. Requirements:

(1) A relatively secluded area of the armory for fitting of plugs and orientation.

(2) Each guardsman will have a notation made in Section 73 of his Standard Form 88, Report of Medical Examination as illustrated below:

TRIPLE-FLANGE HEARING PROTECTORS FITTED AND ISSUED _____
date

RIGHT EAR _____ (SIZE)

LEFT EAR _____ (SIZE)

As a result, each guardsman must have his SF 88 at the time of hearing protector fitting.

10. PROGRAM PROCEDURES:

a. Levels of steady noise of 85 DBA or greater are considered hazardous, regardless of the duration of exposure, for the purpose of administering a hearing conservation program. Appendix G of TB Med 501 (shown as Appendix A of this circular) lists those military and civilian occupations involving routine exposures to hazardous noises. The most common type of hearing protection device is the triple-flange hearing protectors. These hearing devices are available, thru supply channels, in three separate sizes.

(1) NSN 6515-00-442-4821, Hearing Protection, small, green, triple-flange, 24s

(2) NSN 6515-00-467-0092, Hearing Protection, regular, international orange, triple-flange, 24s

(3) NSN 6515-00-467-0093, Hearing Protection, large, blue, triple-flange, 24s

In addition to the triple-flange hearing protectors, there are two types of disposable earplug, NSN 6515-00-133-5416, Hearing protection, cylindrical, disposable, 200s and NSN 6515-00-137-6345, yellow foam earplugs, These are recommended for emergency use on ranges and within hazardous noise areas for use by visiting personnel, etc. There are many other types of hearing protection available which can be found in DA Pamphlet 385-3, Protective Clothing and Equipment. Personnel exposed to excessive noise levels should be evaluated to determine if additional hearing protection is required. Commanders and supervisors are responsible for maintaining a supply of protective devices for use in the separate operations.

11. HEALTH EDUCATION AND DISCIPLINE:

a. To insure an effective hearing conservation program requires continued emphasis from command levels. Personnel involved in hazardous noise areas such as range operations, vehicle drivers and aircraft operations, should be educated on the use of and required to wear hearing protective devices. Most FM's, TM's and Army Regulations cover the use of protective devices for the respective operation.

b. There are various training films available from TASO and the State Safety Office on Hearing Loss Programs. Commanders and supervisors are encouraged to use these training aids in their programs. Information on these training aids can be found in TASO Film Catalogs and consultation on a particular type of training aid can be requested through the Safety Office.

BY ORDER OF THE GOVERNOR:

ROBERT R. ENSSLIN JR.
Major General FLARNG
The Adjutant General

OFFICIAL:

FRANKLIN M. PERSONS
Colonel, INF, FLARNG
Director, Administration

DISTRIBUTION A

Appendix A – Military and Civilian Occupations Involving Routine Exposures to Hazardous Noise
Appendix B – General Information - Earplugs

MILITARY AND CIVILIAN OCCUPATIONS INVOLVING ROUTINE EXPOSURES TO HZARDOUS 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 Repairmen
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
19D	Cavalry Scout		
19E	M48-M60A1/A3 Armor Crewman		

ENLISTED MOS TITLES (CONTINUED)

19F	Tank Driver		Repairman
19G	Armor Reconnaissance Vehicle Crewman	34K	IBM 360 Repairman
19H	Armor Reconnaissance Vehicle Driver	34L	ADMS Peripheral Equipment Repairman
19J	M60-A2 Armor Repairman	34Z	ADP Maintenance Supervisor
19Z	Maneuver Combat Arms Sergeant	35K	Avionic Mechanic
21G	Pershing Electronics Materiel Specialist	41J	Office Machine Repairman
21L	Pershing Electronics Repairer	41K	Reproduction Equipment Repairer Specialist
22K	Hawk Missile and Launcher Repairer	42C	Orthotic Specialist
22L	Nike Test Equipment Repairer	42D	Dental Laboratory Specialist
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
		67Y	Attack Helicopter Repairer
51P	Utilities Engineering Supervisor	67Z	Aircraft Maintenance Senior Sergeant
51R	Electrician	68B	Aircraft Powerplant Repairer
51T	Technical Engineering Supervisor	68D	Aircraft Powertrain Repairer
51Z	General Engineering Supervisor	68F	Aircraft Electrician
52C	Utilities Equipment Repairer	68G	Aircraft Structural Repairer
52D	Power Generation Equipment	68H	Aircraft Pseudraulics Repairer
52E	Prime Power Production Specialist	68J	Helicopter Missile System Repairer
54C	Smoke and Flame Specialist	68K	Aircraft Components Repair Supervisor
54D	Chemical Equipment Repairman	68M	Helicopter Weapon Systems Repairer
54E	Chemical Operations Specialist	74B	Card and Tape Writer
55B	Ammunition Specialist	74D	Computer/Machine Operator
55D	Explosive Ordnance Disposal Specialist	76V	Storage Specialist
55G	Nuclear Weapons Maintenance Specialist	76W	Petroleum Supply Specialist
55X	Ammunition Inspector	76X	Subsistence Supply Specialist
55Z	Ammunition Foreman	83E	Photo and Layout Specialist
57E	Laundry and Bath Specialist	83F	Photolithographer

ENLISTED MOS TITLES (CONTINUED)

57F	Graves Registration Specialist	91E	Dental Specialist
57H	Terminal Operations Coordinator	91H	Orthopedic Specialist
61B	Watercraft Operator	91L	Occupational Therapy Specialist
61C	Watercraft Engineer	95B	Military Police
61F	Marine Hull Repairman	95C	Correction Specialist
61Z	Marine Senior Sergeant	95D	Assistant Special Agent
62B	Construction Equipment Repairer	96H	Aerial Sensor Specialist (OV-ID)
62E	Heavy Construction Equipment Oper.	98G	EW/SIGINT Voice Interceptor
62F	Lifting and Loading Equipment Oper.	98J	EW/SIGINT Noncommunications Interceptor
62G	Quarrying Specialist	98Z	EW/SIGINT Chief
62H	Concrete and Asphalt Equipment Oper.	00B	Diver
62J	General Construction Equipment Oper.	02B	Coronet or Trumpet Player
62N	Construction Equipment Supervisor	02C	Baritone or Euphonium Player
63B	Power Generation and Wheel Vehicle Mechanic	02D	French Horn Player
63C	Track Vehicle Mechanic	02E	Trombone Player
63F	Recovery Specialist	02F	Tuba Player
63G	Fuel and Electrical Systems Repairman	02G	Flute or Piccolo Player
63H	Automotive Repairman	02H	Oboe Player
02K	Basoon Player	02J	Clarinet Player
02L	Saxophone Player	02T	Guitar Player
02M	Percussion Player	02Z	Enlisted Band Leader
02N	Piano Player	05C	Radioteletype Operator
02P	Brass Group Leader	05D	EW/SIGINIT Emitter Identifier/Locator
02Q	Woodwind Group Leader	05G	Signal Security Specialist
02R	Percussion Group Leader	05H	EW/SIGINIT Morse Interceptor
02S	Special Bandsperson	05K	EW/SIGINIT Non-Morse Interceptor

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/SGT	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	Calvary 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	64D	Periodontist
14D	Hawk Missile Air Defense Artillery	63E	Endontist
14E	Safeguard Ballistic Missile Air Defense	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
77A	Tank/Ground Mobility Materiel MGT	83C	Parachute Maintenance and Aerial Supply
77B	Tank Automotive Materiel MGT	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
83B	General Troop Support Material MGT	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 Inspection
460	Forester	1942	Aircraft Quality Control and Inspection
462	Forestry Aid/Technician	1947	Ordnance Quality Control and Inspection
470	Soil Scientist	1948	Ammunition Quality Control and Inspection
664	Restoration Technician		

GS SERIES (CONTINUED)

665	Speech Pathology Audiology	1950	Missile Quality Control and Inspection
667	Orthotist-Prosthetist	1955	Space System Quality Control and Inspection
680	Dental Officer	1960	Quality Inspection Specialist
681	Dental Assistant	1965	Metallic Materials Treatment Process Quality Control and Inspection
682	Dental Hygienist		
683	Dental Lab Aid/Technician	2131	Packing Specialist
690	Industrial Hygienist	2152	Air Traffic Control Specialist
1810	Investigator	2161	Marine Cargo Assistant/Specialist
1811	Criminal Investigator	2181	Aircraft Operator

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 Equipment 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
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
		4712	Instrument Maker
3815	Riveter	4714	Model Maker
3820	Shipfitter	4804	Garden Equipment Repairing
3904	Studio Sound Room Man	4806	Office Appliance Repairer
3906	Property Man Drapery	4812	Saw Reconditioner

WG SERIES (CONTINUED)

3910	Motion Picture Projectionist	4813	Office appliance Inspector
4002	Blocking (Optical Elements)	5003	Gardner
4005	Polishing (Optical Elements)	5004	Cemetery Caretaking
4006	Grinding (Optical Elements)	5026	Pest Controller
4010	Spectacle Lens Bench Working	5210	Rigger
4011	Spectacle Lens Surfacing	5212	Laboratory Worker
4102	Painter	5220	Shipwright
4104	Sign Painter	5306	Air Conditioning Equipment Mechanic
4105	Paint Miller	5307	Shoe Machine Repairing
4203	Insulator	5308	Gas Appliance Repairer
4204	Pipefitter	5309	Heating and Boiler Plant Equipment Mechanic
4303	Model Making (Basic)	5312	Sewing Machine Repairer
4351	Plastic Molding	5317	Laundry and Dry Cleaning Equipment Mechanic
4352	Plastic Working	5318	Lock and Dam Maintenance and Repairing
4402	Binding Working	5321	Laundry and Dry Cleaning Equipment Inspector
4403	Compositor	5313	Oiler and Greaser
4404	Draftsman, Offset	5324	Hydroelectric Powerhouse Mechanical Equipment Repairer
4405	Film Assembly-Stripping	5326	Bridge Repairer
4406	Press Operator, Printing	5352	Equipment Mechanic
4407	Linotype Operating	5378	Powered Support Systems Mechanic
4410	Monotype Casting Machine Operator and Repairer	5402	Boiler Fireman
4411	Monotype Keyboard Operator	5402	Boiler Plant Operator
4412	Mimeograph Operator	5403	Incinerator Operator
4417	Press Operating Offset	5406	Utility Systems Operator
4418	Printing Plant Equipment Mechanic	5408	Sewage Disposal Plant Operator
4423	Pantographer	5409	Water Treatment Plant Operator
4424	Multigraph Operator	5410	Asphalt Plant Operator
4425	Photoengraver	5411	Air Compressor Operator
4504	Tire and Tube Repairing	5412	Coal Unloader Operator
4602	Blocker and Bracer	5414	Baling Machine Operator
4603	Boat Repairer	5416	Coffee Plant Equipment Operator
4604	Woodworker	5417	Parts and Equipment Steam Cleaner Operator
4605	Woodcraftsman	5420	Alum Plant Operator
4606	Carpenter, Manual	5423	Sandblaster
4607	Carpenter	5426	Lock and Dam Operator
4608	Sawmill Operator	5431	Furnace Tender, Popping Plant
4610	Carpenter, Studio	5434	Baking Equipment Operator
4613	Furniture Repairer	5435	Carton and/or Bag Mixing Machine Operator
4614	Model Maker, Wood	5440	Packaging Machine Operator
4616	Patternmaker	5502	Drilling Machine Operator
4618	Woodworking Machine Operator	5503	Scalper Machine Operator
4619	Wood Body Repairer	5505	Crusher Operating
4620	Shoe Last Repairer	5924	Revetment Working
4622	Crating Inspector	5925	Shipkeeping
5704	Forklift Operator	5926	Wiper-Oiler
5705	Tractor Operator	5927	Quarterboat Utilities Operator
5706	Road Sweeper Operator	5928	Scowman
5707	Tank Driving		
5713	Concrete or Mortar Mixing Operator		

WG SERIES (CONTINUED)

5715	Diesel Tender Operator	5929	Master-Mate Snagboat
5716	Engineering Equipment Operator	5930	Debis 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 Processor and Laborer
5915	Fireman-Water Tender	6912	Material Sorter and Classifier
5916	Hyacinth Removal Plant Operator	7009	Equipment Cleaner
5917	Master-Mater 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

EARPLUGS: GENERAL INFORMATION

- 1. MAKE THE EAR CANAL ACCESSIBLE BY REACHING OVER THE HEAD WITH OPPOSITE HAND AND PULLING EAR OUTWARD.**
- 2. A GOOD SEAL SHOULD BE ACCOMPANIED BY A VACUUM SENSATION (A BACK PRESSURE). ALSO, YOUR VOICE SHOULD SOUND MUFFLED TO YOU AS IF TALKING INSIDE A BARREL.**
- 3. PLUGS TEND TO WORK LOOSE AS A RESULT OF TALKING AND CHEWING AND MUST BE RESEATED.**
- 4. LITTLE DIFFICULTY IS EXPERIENCED UNDERSTANDING SPEECH WHEN PLUGS ARE WORN, IF THE VOICE IS RAISED SLIGHTLY ABOVE THE LEVEL OF ORDINARY CONVERSATION.**
- 5. EVEN A SMALL LEAK DEFEATS THE PURPOSE OF WEARING PLUGS.**
- 6. KEEP PLUGS CLEAN WITH SOAP AND WATER, BUT INSURE PLUGS ARE DRY WHEN RETURNED TO CASE. WHEN NOT IN USE, KEEP PLUGS IN PLASTIC CARRYING CASE PROVIDED.**
- 7. EARPLUGS ARE PART OF YOUR PERSONAL ISSUE AND ARE TO BE RETAINED UPON CHANGE OF STATION**

FOR MAXIMUM PROTECTION AND COMFORT INSERT TRIPLE FLANGE EARPLUGS AS FOLLOWS:

- 1. MAKE THE EAR CANAL ACCESSIBLE BY REACHING OVER HEAD WITH OPPOSITE HAND AND PULLING EAR OUTWARD**
- 2. GRASP PLUG FIRMLY BEHIND LARGEST FLANGE.**
- 3. INSERT SMALLER FLANGE IN EAR CANAL. PUSH AND TWIST TOWARD REAR-CENTER OF HEAD.**
- 4. IF A GOOD SEAL IS NOT OBTAINED, USE SMALLER OR LARGER SIZE. TRIPLE FLANGE PLUGS ARE AVAILABLE IN THREE SIZES- LARGE, REGULAR, AND SMALL**

HAND-FORMED EARPLUGS

NOTE: ENSURE THAT HANDS AND PLUGS ARE CLEAN BEFORE USING. DON NOT CUT THESE PLUGS IN HALF SINCE A HALF PROVIDES AN INADEQUATE MASS FOR EFFECTIVE NOISE REDUCTION.

1. YELLOW FOAM EARPLUGS (NSN 6515-00-137-6345).

- A. ROLL RATHER THAN SQUEESE EACH PLUG INTO THE SHAPE OF A GOLD TEE.
- B. INSERT TAPERED END QUICKLY INTO EAR CANAL.
- C. HOLD GENTLY IN PLACE WITH FINGERTIP FOR 1 MINUTE UNTIL EXPANSION IS COMPLETE.
- D. KEEP PLUGS CLEAN BY WASHING IN MILD SOAP AND RINSING THOROUGHLY IN WATER. DISCARD IF DISCLORATION OR DISFIGURATION OCCURS AFTER CLEANING.
- E. DO NOT USE WHERE HAZARDOUS CHEMICAL VAPORS COULD BE ABSORBED INTO PLUG.

2. SILICONE EARPLUGS (NSN 6515-00-133-5416).

- A. SOFTEN AND MOLD BETWEEN FINGERS INTO A CONE-SHAPED PLUG.
- B. INSERT TAPERED END INTO EAR CANAL AND PRESS FIRMLY.
- B. SEAL EAR CANAL BY PRESSING EDGES OF EXCESS MATERIAL INTO SURROUNDING SPACE.

3. WAX-IMPREGNATED COTTON (NSN 6515-00-721-9092)

- A. ROLL AND SOFTEN BETWEEN PALMS INTO A BALSHAPED PLUG
- B. INSERT INTO EAR CANAL AND PRESS FIRMLY.
- C. SEAL EAR CANAL BY PRESSING EDGES OF EXCESS MATERIAL INTO SURROUNDING SPACE.

EAR MUFFS: GENERAL INFORMATION

- 1. ADJUST HEADBAND TO INSURE EARCUP SEALS ARE IN COMPLETE CONTACT WITH HEAD**
- 2. EARCUP SEALS MUST FIT WELL AROUND TEMPLES OF EYEGASSES.**
- 3. THE TYPE II EAR MUFF CAN BE WORN OVER THE HEAD, BEHIND THE HEAD OR UNDER THE CHIN.**
- 4. WHEN EAR MUFFS ARE PROPERLY WORN, YOUR OWN VOICE SHOULD SOUND MUFFLED TO YOU AS IF TALKING INSIDE A BARREL.**
- 5. DO NOT BEND, ALTER, OR MODIFY ANY PART OF HEADBAND, CUPS, CUP LINING OR EARCUP SEALS.**
- 6. REPLACE EARCUP SEALS THAT HAVE BECOME HARDENED, DAMAGED OR OTHERWISE UNSERVICEABLE.**
- 7. EVEN A SMALL LEAK ELIMINATES THE PROTECTION PROVIDED BY EAR MUFFS.**

