

DEPARTMENT OF THE NAVY
MILITARY SEA TRANSPORTATION SERVICE, PACIFIC AREA
FORT MASON
SAN FRANCISCO, CALIFORNIA

MSTSPAC 5100.8
P-125
26 May 1958

MSTSPAC INSTRUCTION 5100.8

From: Commander Military Sea Transportation Service, Pacific Area
To: Distribution List

Subj: Sight Conservation Program for Marine Personnel

Ref: (a) CMPI 190.3-4b
(b) OPNAV 34P1, U. S. Navy Safety Precaution Manual
(c) MSTS Allowance List, Part III, Group JC37, Page 1
(New List, Part III, Group FSC-42)
(d) Navy Dept. Manual of Safety Equipment (NAVEXOS P-422)

Encl: (1) Eye Hazard Classification Chart

1. Purpose. To outline policy and institute procedures to put into effect the Marine Personnel Sight Conservation Program established by reference (a). The program is intended to provide eye protection and improved vision for personnel engaged in eye hazardous work.

2. Policy. The policy of the Navy Department is to provide eye protection and correction, when necessary, for civilian employees and industrially employed military personnel.

3. COMSTSPACAREA Staff Responsibility.

a. The Director, Industrial Relations Division is responsible for coordinating the Sight Conservation Program. The Safety Branch will refer to the dispensary marine personnel considered eligible for refractive service.

b. The Staff Medical Officer is responsible for the medical phase of the program and will arrange for the service of a contract refractionist for the program.

4. Designation of Eye Hazards. As a result of shipboard surveys made in accordance with reference (a), the following determinations and designations were made:

a. Eye hazardous areas:

- (1) Carpenter Shop
- (2) Electrical Shop
- (3) Machine Shop
- (4) Any other area where eye hazardous operations are conducted.

b. Eye hazardous work:

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- (1) Grinding, drilling, buffing, chipping, sanding, scaling, scraping, polishing, caulking, riveting or wire brushing.
- (2) Operating brake on anchor windlass when letting go an anchor.
- (3) Gas or electric welding, burning, cutting, brazing or soldering.
- (4) Operations involving the use of hand or power tools where the use of them may cause eye injury.
- (5) Handling and pouring of acids and caustics of any type and servicing of electric storage batteries.
- (6) Handling of Freon 12 or other eye hazardous refrigerants.
- (7) Handling of molten metal, pouring wire rope sockets.
- (8) Machining of metallic materials.
- (9) Dumping of rubbish or garbage.
- (10) Woodworking, using power tools and other operations where chips and dust are present.
- (11) Handling of fibreglass or other fibrous materials.
- (12) Work inside boiler fireboxes, flues, ducts or operations where the repairing of concrete or brickwork by cutting or chipping will endanger the eye.
- (13) Spraying paints, bitumastic or other protective or coal tar products.
- (14) Degreasing, cleaning or dipping operations which involve the use of degreasing compounds, solvents or preservatives.
- (15) Overhead work where there is danger of dust or other material falling into the eye.
- (16) Handling of high vacuum electric tubes.
- (17) Splicing or braiding of wire.
- (18) Any other operation where there is danger of injury to the eye from particles, liquids, gases or radiations.

c. Eye hazardous positions:

(1) Deck Department: All Licensed Deck Officers, Boatswain, Carpenter, Carpenter's Mate, Able Seamen and Ordinary Seamen.

(2) Engine Department: All Licensed Engineers, Electricians, Refrigeration Engineers, Machinists, Plumbers, Firemen, Watertenders, and Wipers.

(3) Steward Department: Utilitymen.

(4) Any person exposed to eye hazardous operations such as those listed under 4.b.

d. Monocular Vision. Personnel with one eye or who has vision in one eye only, who is determined by the Staff Medical Officer to be in the monocular vision category, will be considered as engaged in eye hazardous operations regardless of occupation. Eye protection shall be provided as authorized by reference (a) and worn at all times aboard ship and while ashore on government property or in the service of the ship.

5. Eye Conservation Program.

a. Normally, eye protection equipment will be limited to the types authorized by references (c) and (d) and shown in enclosure (1).

b. Personnel exposed to eye hazardous operations who normally wear or, who, as a result of an examination, require corrective eyewear, shall be urged to purchase protective-corrective eyewear.

c. Refractive service is provided by a contract refractionist at the COMSTSPACAREA Dispensary. Eye examinations and prescriptions for protective-corrective eyewear are provided at no cost to the employee. Arrangements to purchase this type of eyewear may be made with the refractionist at a cost advantage to the employee. In such instances, the only materials the contract refractionist can provide are those complying with appropriate federal specifications for safety eyewear and he shall not charge over 15% above the regular prescription safety eyewear prices charged to industry by optical laboratories. Such agreements, however, shall in no way obligate MSTS.

d. The services of the contract refractionist are not limited to personnel involved in the operations shown in paragraph 4.b. When, in the opinion of the Master, a member of the crew, wearing corrective eyewear, is subjected to eye injury from sources other than those stated above, the services of the contract refractionist may be utilized for the purpose of procuring protective-corrective eyewear.

6. Directive. To ensure sight conservation and protection for shipboard personnel, Masters shall:

a. Make mandatory the wearing of approved protective eyewear in all

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all areas and operations designated eye hazardous in paragraph h above. Require full allowance use of eye protective apparel listed in reference (c), particularly Item 5, Plastic Eye Shield.

b. Establish shipboard procedures and assign responsibility to ensure that eye hazardous operations are patrolled, screened or fenced off, as appropriate, to protect fellow workers and others. Warning signs, as follows, shall be placed at the entrance of eye hazardous areas:

EYE HAZARDOUS AREA
PROTECTIVE EYEWEAR REQUIRED

c. Establish requirement that safety goggles be thoroughly cleansed and sterilized periodically to prevent possible skin infections. (Wash with warm water and mild soap, followed by rinsing in fresh water).

d. For advance planning purposes, Masters will submit a letter request for eye examinations, listing names and positions, via air mail or speed letter from last port of call to COMSTSPACAREA, attention P125.

e. Conduct a comprehensive educational program covering the need, use and care of protective eyewear.

H. O. LARSON

DISTRIBUTION:

List A4,5,10,11COMSTSPACAREA Activities










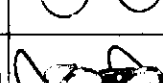





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CDR, USN

TYPES OF PROTECTORS			FLYING PARTICLES											INVISIBLE LIGHT					LIQUIDS - SOLIDS			SUBSTANCES					CHEMICALS					
			LARGE PARTICLES	SMALL PARTICLES	DUST - SCALE	ABRASIVE GRINDING	MACHINERY OPERATIONS	WOODWORKING MACHINERY	HAND AND POWER OPERATED TOOLS	PUNCH - SHEARS	BUFFING - POLISHING	CHIPPING CAULKING	VISITORS	REFLECTED LIGHT	OXY-ACETYLENE OPERATIONS	ELEC. ARC WELDING	GLASS BLOWING	FURNACE - FORGE	VISITORS	SPLASH - SPRAY	FUMES - VAPORS	VISITORS	LEAD-SOLDERING	BABBITTING	GALVANIZING	IRON - STEEL	VISITORS	SAND - COAL	WOOD	METAL	ABRASIVE BLASTING	VISITORS
1		SPECTACLES (METAL) WITH SIDE SHIELDS *	X	X	X	X	X	X	X	X	X	X									X				X	X	X	X	X		X	
2		SPECTACLES (PLASTIC) WITH SIDE SHIELDS *	X	X	X	X	X	X	X	X	X	X									X				X	X	X	X	X		X	
3		SPECTACLES (METAL) FILTER LENS				X ₃							X		X ₂	X	X	X				X			X	X						
4		SPECTACLES (PLASTIC) FILTER LENS				X ₃							X		X ₂	X	X	X				X			X	X						
5		CUP GOGGLE	X	X		X	X	X	X	X	X	X																			X ₄	
6		COVERALL GOGGLE	X	X		X	X	X	X	X	X	X				X								X	X	X	X	X	X	X	X	
7		CUP GOGGLE, WELDER'S FILTER LENS	X	X										X		X		X							X							
8		WELDER'S COVER-ALL GOGGLE	X	X										X		X		X														
9		MELTER'S GOGGLE															X								X							
10		PROTECTIVE GLARE GOGGLE TYPE A											X			X	X	X														
11		EYE SHIELD (PLASTIC)		X	X	X ₁	X	X ₁	X ₁	X	X ₁	X														X	X	X	X	X		
12		RUBBER FRAME GOGGLE																	X	X	X											
13		CLEAR & COLORED PLASTIC FACE SHIELDS		X			X	X	X	X	X					X ₅			X		X					X						
14		BABBITTING MASK																				X	X		X							
15		WELDING HELMET AND HAND-SHIELD													X			X														

THIS CHART PRESENTS A SUMMARY OF RECOMMENDATIONS AS TO THE MOST EFFICIENT TYPE OF EYE PROTECTION IT INDICATES THE SPECIFIC TYPE OF EQUIPMENT THAT WILL AFFORD PROTECTION AGAINST THE EXPOSURES.

SPECIFICATIONS FOR ITEMS:

(1), (2), (3), (4) - MIL-S-4594A

(5), (6), (7), (8) - FED SPEC GGG-C-513

NOTE: THE NUMERALS IN THE BOXES REFER TO ADDITIONAL EYE PROTECTOR TYPE DETAIL.

1. FOR LIGHT IMPACT ONLY.

2. WORN BY ELECTRIC WELDER UNDER WELDING HELMET.

3. WORN FOR METALIZING AND GLARE PRODUCING OPERATIONS.