UNITED STATES MARINE CORPS
MARINE CORPS AIR STATION
BOX 99100
YUMA, ARIZONA 85369-9100

StaO 5100.11E
3ED1
28 AUG 1990

STATION ORDER 5100.11E

From: Commanding Officer
To: Distribution List

Subj: MOTORCYCLE SAFETY PROGRAM

Ref: (a) MCO 5100.19D
(b) StaO 5100.5J
(c) DOD 6055.4

Encl: (1) MCAS Yuma Motorcycle Regulations
(2) Motorcycle Safety Inspection

1. Purpose. To provide amplification for references (a), (b) and (c) to establish specific regulations for MCAS Yuma pertaining to the registration and operation of motorcycles as provided for in enclosures (1) and (2).

2. Cancellation. StaO 5100.11D

3. Background. The increased popularity of motorcycling has resulted in an increased frequency of mishaps involving motorcycles. Among personnel in the Marine Corps, motorcycle accidents have accounted for 26% of private motor vehicle deaths and 37% of the disabling injuries.

4. General. The vulnerability of a motorcycle rider without the protective steel structure afforded by an automobile around him is obvious. Concern for the safety of motorcyclists is identified by requirements contained in reference (a). These requirements are the minimum that must be met by all Marine Corps Commands.

5. Scope. The major cause of motorcycle accidents are in the areas of operator skill, knowledge and experience. The following areas identified as contributing factors to accidents can be eliminated or greatly reduced through an effective examination, inspection and training program. The five major causes of motorcycle accidents have been found to be:

a. Rider's lack of experience and training, (i.e., new rider and/or new motorcycle).

b. Rider's lack of knowledge of inherent dangers (i.e., susceptibility to road hazards, distractions/external hazards, size of rider and motorcycle, position and being "tuned out" by other vehicle operators).

c. Rider's lack of knowledge of his own and his motorcycle's capability (i.e., stopping distance, turning radius, response time, emergency situations).

d. Rider's attitude (i.e., courtesy, watching out for the other person, defensive driving).

e. Mechanical condition and/or alterations thereof.

6. Action

a. The Department of Safety and Standardization Manager will:

(1) Exercise staff cognizance over the conduct of the training required by references (a), (b) and (c) and formulate the course study.

(2) Assign quotas and class schedules.

(3) Provide instructors.

(4) Issue Motorcycle Safety Foundation cards of completion to personnel upon completion of the required training.

(5) Notify the Provost Marshal (Attn: Pass and Registration Office, Building 952), Commanding Officers and Department Heads of individuals who successfully complete or fail to complete the motorcycle safety course.

b. Commanding Officers:

(1) Will ensure that all members of their command who operate a motorcycle attend the Motorcycle Safety Course.

(2) Will request quotas for the members of their Command they deem necessary to attend the Motorcycle Safety Course for remedial training (i.e., loss of base driving privileges, involved in accidents, numerous traffic tickets while operating a motorcycle, etc.)

(3) Shall counsel Marines/Sailors who fail to attend their assigned class.

(4) Shall counsel Marines/Sailors who fail to successfully complete required training.

7. Summary of Revision. This order is a complete revision and should be completely reviewed.

8. Concurrence. The Commanding Officers of MAG-13, MACS-1, MWSS-371, MAWTS-1, CSSD-16 1ST FSSG, and VMFT-401 concur in and make this Directive applicable to their respective Commands.

C. J. TURNER

DISTRIBUTION: B

MCAS YUMA MOTORCYCLE REGULATIONS

1. Definitions

a. Motorcycle. "Motorcycle" means a motor vehicle having a seat or saddle for the use of the rider and designated to travel on not more than three wheels in contact with the ground but excluding pedal bicycles with helper motors.

b. Motor-Driven Cycle. "Motor-driven cycle" means a motorcycle, including every motor scooter, with a motor which produces five horse-power or less.

c. Mini-bikes, dirt bikes, trail bikes, mopeds and similar vehicles may fall within the category of either motorcycle or motor-driven cycles depending on the horsepower. If such vehicles are operated upon the highways or public roads and aboard MCAS Yuma, they must meet applicable equipment and registration procedures.

2. Registration

a. Applicants must first report to the Provost Marshal's Vehicle Registration section, Building #952, with a valid state motorcycle license and proof of insurance. Applicants will then be given a one (1) day pass to report to the Department Of Safety and Standardization, Building #576. The Department of Safety and Standardization will complete a motorcycle safety inspection and assign the applicant to the next available motorcycle safety class.

b. The Motorcycle Safety Class will commence every other Thursday at 0800 in the Department of Safety and Standardization Classroom, Bldg #576, and consist of the following:

(1) Motorcycle Safety.

(2) Protective equipment requirements (helmet, vest, eye protection, full-fingered gloves, and long sleeved shirts).

(3) Station Requirements.

(4) Detailed Vehicle Inspection.

(5) Skills Test.

c. Applicants who successfully complete the Motorcycle Safety Class will be issued a Motorcycle Safety Foundation card. This card must be presented to the Vehicle Registration Office before a permanent Station decal can be issued.

d. Applicants who do not successfully complete the Motorcycle Safety Class will be required to attend an additional twelve hours of motorcycle skill instructions and application as assigned.

3. Minimum Safety Requirements for Motorcycles

a. General. Prior to the issuance of a temporary pass, a safety inspection will be conducted by the Department of Safety and Standardization. Motorcycles shall at all times be maintained to the degree that they meet requirements. A motorcycle safety inspection will be required annually thereafter. Motorcycle operators will adhere to the requirements of this Order.

b. Equipment Requirements

(1) Brakes. Motorcycles will be equipped with brakes on all wheels, except the wheels of a side car. Brakes must be capable of stopping the vehicle on a level road within 25 feet at an initial speed of 20 mph. The brakes must also control the movement of, and stop and hold the vehicle under all conditions of loading of any grade on which operated. All brakes will be maintained in good working order.

(2) Drive Guard. Chain drives, belt drives and drive shafts will have a proper cover. Chain drives will be inspected for loose links and excess play. Drive guards, sufficient to protect the rider and passenger, will be installed and properly secured.

(3) Fenders. Motorcycles will be equipped with front and rear fenders. The rear fender must be sufficient in its coverage to preclude the throwing of mud and debris on following vehicles. Front fenders may be "bobbed" but only to the extent that they will continue to protect the rider and passengers against debris which may be thrown up by the front wheel. Fenders will not be broken, cut or otherwise shaped in such a way or manner that they have sharp pointed edges.

(4) Fuel Tank. The fuel tank filling spout must be closed by a cap or cover with no sharp points and made of noncombustible material. There must be no visible fuel leaks.

(5) Horn. Every motorcycle must have a functional electric horn which is audible from a distance of 200 feet, but does not emit a whistle sound or an unreasonably loud or harsh sound.

(6) Mirror. Every motorcycle will be equipped with a rear view mirror mounted on each side of the handle bars. It will be so located to see 200 feet behind the vehicle.

(7) Muffler. Every motor vehicle subject to vehicle registration will have a muffler which prevents any excessive or unusual noise. It will not be equipped with a cut out, bypass or similar device. The exhaust system shall not emit noise above 82 dba at 35 miles per hour or less, measured at a distance of 50 feet.

(8) Tires. No tire shall be used if such a tire is so worn that less than 1/16 of an inch of tread depth remains in any two adjacent grooves at any location of the tire. Re-grooved tires are prohibited.

(9) Wheels. Wheels will have no visible damage. The front and rear wheels must be stock size and properly aligned, with no evidence of shimmy or wobble. Spokes must be properly tightened.

(10) Windshield. A windshield is not required. However, any windshield sold after 1 January 1979 shall be approved safety glazing material. Material marked "A56" shall be used in the windshield section between 15 inches and 31 inches above the un-depressed seat. The area below the level of the handle bars does not have to meet this visibility requirement. Red or amber glazing material is prohibited. Safety glazing material shall be used when replacing any glazing material in a windshield.

(11) Operator Control. Hand and foot-operated controls will be covered with an unworn friction-producing covering comparable to that used in the original manufacture of the motorcycle. Kick starters will be equipped with pedals comparable to those used in the original manufacture. Starter-return device must be functional. Operating control throttle, clutch, shift levers, and all other controls must be secured and functional. Cables must be firmly connected and un-frayed. A sticking throttle will not be allowed.

(12) Lighting Equipment. Motorcycles will be equipped with head lamp, license plate lamp, rear reflector, brake lamp, and tail lamp in good operating order. Head lamps must have functioning high and low beams.

(a) Beam Indicator. The beam indicator will be illuminated only when the head lamp is on high beam.

(b) Head lamp. Every motorcycle will be equipped with at least one illuminated multiple beam head lamp. The head lamp will be mounted on the front of the motorcycle between 24 and 54 inches above the roadway. The head lamp will be of sufficient intensity to meet the requirements of the Arizona Vehicle Code. The head lamp will be on at all times while the motorcycle is in operation.

(c) License Plate Lamp. Either the tail lamp or a separate lamp is required to illuminate the entire surface of the license plate during darkness. the license plate must be legible for a distance of 50 feet. If a separate lamp is utilized, it must be controlled by the switch controlling the tail lamp.

(d) Reflector on Rear. At least one approved red reflector, either separate or in combination with a required lamp, will be mounted on the rear of the vehicle between 20 inches and 60 inches above the roadway.

(e) Stop Lamp. At least one red stop lamp is required on the rear. The stop lamp must be actuated upon application of the foot brake and the hand brake lever, when used together or separately, and must be visible for a distance of 300 feet. Stop lamps will be mounted between 20 and 60 inches above the roadway.

(f) Tail Lamps. One or more illuminated red tail lamps are required during darkness. The tail lamps must meet requirements of the Arizona Vehicle Code.

(g) Turn Signals. A turn signal system is required on all motorcycles originally equipped with turn signals. The system will include four (4) turn signal lamps, two (2) single-faced front lamps and two (2) single-faced rear lamps, so connected that the front and rear lamps on the side toward which a turn is made will flash to indicate the turn. The lamps will be mounted as far apart as practical, but in no case be closer than nine (9) inches, center-to center.

(13) Prohibited Equipment

(a) Elevated handle bars so positioned that the hands of the driver, when upon the grips, are at, or above, his shoulder height when sitting astride the motorcycle are prohibited. When seated in an upright positions and with his arms extended to the front, the hand grips will come no closer to the driver than his wrists.

(b) Seats positioned in such a manner that the driver, when sitting astride the seat, cannot reach the ground with his feet are prohibited.

(c) "Sissy Bars" are described as any attachment or structure affixed to the motorcycle to the rear of the operator, designated for the purpose of back support, luggage tie, or appearance. "Sissy Bars" with sharp pointed ends or with emblems incorporating exposed sharp points are prohibited. "Sissy Bars" will not exceed twenty-four (24) inches in height, measured from the surface of the un-depressed seat.

(d) Forks that have been extended through the use of slugs or other devices are prohibited. The maximum extension allowed will be eight (8) inches over stock. Springer and girder forks are allowed if they fall within the extension limits and are installed properly.

(e) Hard and soft tail frames are allowed but they must be free of cracks or structural defects. The steering head will not be raked or stretched thereby offsetting the steering geometry.

(f) It is unlawful for a driver of a motorcycle to carry another person, except on a seat securely fastened to the machine to the rear of the driver provided with footrests or in a sidecar attached to a motorcycle.

(14) Operator/Passenger Requirements

(a) Helmets. Helmets meeting the minimum requirements, the Department of Transportation (D. O. T.) will be worn at all times, i. e., on Station and off Station in uniform or civilian attire by the operator and passengers. Helmets will be worn with the chin strap properly fastened.

(b) Eye Protection. Impact or shatter resistant goggles or full face shield attached to the helmet shall be worn. A windshield, eye glasses or "fairing alone" is not considered proper eye protection.

(c) Footwear. Motorcycle operators and passengers are required to wear shoes or boots, that completely enclose the foot below the ankle and have hard sole with a heel. Sandals, open-toe shoes will not be considered adequate footwear. Boots are recommended.

(d) Clothing. All motorcycle operators and passengers are required to wear a high visibility (orange, lime, or yellow,) vest with reflective tape. It will be worn as an outer garment at all times i. e., on station, off station, in uniform or civilian attire while operating or riding on a motorcycle. All military personnel either in uniform or civilian clothing, both on or off station, are required to wear approved clothing; long sleeved-shirt or jacket, long legged trousers and full fingered gloves or mittens.

4. MCAS Yuma Motorcycle Rules

a. The operator must pass all portions of the skills test before the motorcycle can be registered aboard MCAS Yuma.

b. Owners who permit unqualified personnel to operate their motorcycle will have their driving privileges suspended for six (6) months.

c. Motorcycle operation will be confined to established roads and designated parking areas. Exception is made for traveling on a "designated" dirt road, but only to and from a place of duty/business.

d. The operation of motorcycles aboard MCAS Yuma is authorized for the purpose of providing Marines and other authorized personnel/dependents with an economical and convenient means of transportation. Trail riding, hill climbing and related activities are expressly prohibited except when authorized by separate Directives.

e. The operation of motorcycles in any area designated for the use of pedestrians (i.e., baseball fields, football fields, playgrounds, school yards, basketball courts, sidewalks, etc.) is strictly prohibited.

f. The wearing of portable headphones, earphones, or other listening devices while operating a motor vehicle on roads and streets aboard MCAS Yuma is prohibited.

MOTORCYCLE SAFETY INSPECTION

CLASS ASSIGNMENT DATE: _____

OWNER'S NAME: _____ RANK: _____ SSN: _____

UNIT: _____ WORK PHONE # _____

MAKE: _____ MODEL: _____ YEAR: _____

MOTORCYCLE LICENSE NO: _____ STATE: _____

OPERATOR'S LICENSE NO: _____ STATE: _____

SAFETY INSPECTION RESULTS: _____ DATE INSP: _____

I HAVE READ STA ORDER 5100.___ PERTAINING TO PERSONAL PROTECTIVE EQUIPMENT (PPE), WHICH IS MANDATORY FOR ALL PERSONS, MILITARY AND CIVILIAN, WHILE OPERATING OR RIDING AS A PASSENGER ON A MOTORCYCLE ON DOD INSTALLATIONS AND WHILE SAID VEHICLES ARE BEING OPERATED OFF THE INSTALLATION BY MILITARY PERSONNEL.

DATE: _____ SIGNATURE: _____

BRAKES _____ STOP LIGHTS _____

CONTROL LEVERS _____ CHAIN/SPROKETS _____

STEERING _____ CABLES _____

FOOT RESTS _____ WHEELS _____

HORN _____ SUSPENSION _____

MIRRORS _____ FUEL SYSTEM _____

MUFFLER _____ THROTTLE _____

HANDLE BARS _____ ENGINE KILL SWITCH _____

TIRES _____ SISSY BAR _____

HEADLIGHTS _____ CLUTCH _____

SEAT _____ FRAME _____

MOTORCYCLE SAFETY INSPECTION

TAIL LIGHTS_____PERSONAL PROTECTIVE EQUIPMENT_____

LICENSE PLATE_____SIGNAL LAMPS_____

I HAVE INSPECTED AND CERTIFIED THAT THE ABOVE NAMED VEHICLE HAS MET THE STANDARDS SET DOWN BY STAO 5100.11 __.

MOTORCYCLE SAFETY INSTUCTOR, DEPARTMENT OF SAFETY & STANDARDIZATION
MCAS, YUMA, AZ 85369-9111.

ENCLOSURE (2)