



U.S. Department
of Transportation
**Federal Aviation
Administration**

Advisory Circular

Subject: PAINTING, MARKING, AND LIGHTING
OF VEHICLES USED ON AN AIRPORT

Date: 1/30/85
Initiated by: AAS-100

AC No: 150/5210-5A
Change:

1. **PURPOSE.** This advisory circular (AC) makes recommendations, in the interest of safety, efficiency, and uniformity, for the painting, marking, and lighting of vehicles used on the aircraft operational area of an airport. The criteria in this AC replaces that contained in TSO-N4; parallels actions recently taken by the Army, Air Force, and Navy; and is consistent with recommendations made by the International Civil Aviation Organization.
2. **CANCELLATION.** AC 150/5210-5, Painting, Marking, and Lighting of Vehicles Used on an Airport, dated August 31, 1966, is cancelled.
3. **APPLICATION.** The recommendations contained herein apply to all new vehicles which are to be operated in the aircraft movement area and other areas not intended for use by public vehicular traffic. At such time as existing vehicles used in these areas are to be refurbished, painting, marking, and lighting should conform to the recommendations.
4. **DEFINITIONS.** For the purpose of this AC, the following definitions apply:
 - a. **Vehicle**--All conveyances, except aircraft, used on the ground to transport persons, cargo, or equipment.
 - b. **Aircraft Movement Areas**--Those areas which encompass the runways, taxiways, and other areas of the airport utilized for taxiing, take-off, and landing of aircraft, excluding aprons and parking areas.
 - c. **Airfield Service Vehicles**--Those vehicles operated by airport management routinely used for service, maintenance, and construction on the aircraft movement area.
 - d. **Aircraft Support Vehicles**--Those vehicles routinely used on the aircraft aprons or parking areas in support of aircraft operations.
5. **CLASSIFICATION OF VEHICLES.** Vehicles which are used for emergency, airfield service, and aircraft support purposes in those areas on an airport not intended to be used for public vehicular traffic should be painted, marked, and lighted in a distinctive manner for ready identification. For this purpose, they are divided into four classes:

- a. Ambulances.
- b. Aircraft Fire and Rescue Vehicles.
- c. Airfield Service Vehicles.
- d. Aircraft Support Vehicles.

6. RECOMMENDED VEHICLE PAINTING. The four classes of vehicles listed above should be painted as follows:

- a. Ambulances. As selected by owner.
- b. Aircraft Fire and Rescue Vehicles. Solid red.
- c. Airfield Service Vehicles. Solid chrome yellow. When these vehicles are equipped with bumper bars 8 inches or more in depth, these bars should be painted in alternate stripes 4 inches in width of chrome yellow and black inclined 45° to the vertical.
- d. Aircraft Support Vehicles. Any color or combination of colors other than solid red or chrome yellow.

7. RECOMMENDED VEHICLE MARKING.

- a. Ambulances. Ambulances under the jurisdiction of airport management should be marked with the generally accepted Red Cross symbol of sufficient size for ready identification.
- b. Aircraft Fire and Rescue, Airfield Service, and Aircraft Support Vehicles. These vehicles should display on each side and on the roof (the hood should be used if the vehicle has no roof) an identifying number provided by the airport. Side numbers should be a minimum of 8 inches in height and located so they may be easily seen. Roof numbers should be a minimum of 12 inches in height and affixed with their bases to the front of the vehicle. Identifying numbers should be in sharp color contrast to the vehicle color. In addition to the identifying numbers, all aircraft support vehicle markings should include the owner's or operator's standard insignia or marking.
- c. General. When any vehicle other than those routinely used in the aircraft movement area is required to travel over any portion of that area, it should be escorted by a vehicle properly identified to operate in the area or provided with a flag on a staff so attached to the vehicle that the flag will be readily visible. The flag should be not less than 3 feet square consisting of a checkered pattern of international orange and white squares of not less than 1 foot on each side. A flag or escort vehicle is not required for vehicles which have been painted, marked, and lighted for routine use on aircraft movement areas.

8. RECOMMENDED VEHICLE IDENTIFICATION LIGHTS.

a. Ambulances and Aircraft Fire and Rescue Vehicles. Revolving red or red-and-white beacons.

b. Airfield Service Vehicles. Revolving yellow beacon.

c. Light Characteristics. Beacons should be mounted on the uppermost part of each vehicle and should have:

(1) Three hundred and sixty degrees azimuth coverage.

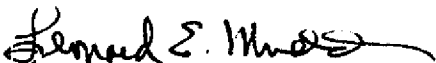
(2) Effective intensity in the horizontal plane not less than 40 or more than 400 candelas.

(3) The beam spread measured to 1/10 peak intensity extending from 10 degrees to 15 degrees above the horizontal.

(4) Sixty to 90 flashes per minute.

9. COLORS. Colors specified should meet the following Federal Standard:

<u>Colors</u>	<u>Colors - Federal Standard No. 595</u>
Insignia red	11136
Chrome yellow	13538
International orange	12197
White	17875
Gloss black	17038



LEONARD E. MUDD
Director, Office of Airport Standards

Federal Aviation Agency

37936



AC NO: 150/5210-5

AIRPORTS

EFFECTIVE :

8/31/66

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2. **CANCELLATION.** TSO-N4, Army-Navy Civil Uniform Requirements for the Marking of Vehicles Used on Landing Areas, dated July 2, 1947, is cancelled.
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10. HOW TO OBTAIN FEDERAL STANDARD NO. 595 AND THIS PUBLICATION.

- a. Obtain Federal Standard No. 595 from Specifications Activity, Printed Materials Supply Division, Building 197, Naval Weapons Plant, Washington, D.C. 20407.
- b. Obtain additional copies of this circular, AC 150/5210-5, Painting, Marking, and Lighting of Vehicles Used on an Airport, from Federal Aviation Agency, Distribution Unit, HQ-438, Washington, D.C. 20553.


Cole Morrow, Director
Airports Service