

AIRPORT STANDARDS DIRECTIVE 506

[ASD 506]

AIRSIDE VEHICLE REQUIREMENT



**AIRPORT STANDARDS DIVISION
DEPARTMENT OF CIVIL AVIATION
MALAYSIA**

This Airport Standards Directive is published and enforced by the Director General of Civil Aviation Malaysia under the provision of the Section 240 Civil Aviation Act 1969 (Act3) – Amendment 2006.

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INTRODUCTION

1. In exercise of the powers conferred by regulation 46 of the Civil Aviation (Aerodrome Operations) Regulations 2016, the Director General makes this Airport Standards Directive.
2. This Airport Standards Directive is published by the Director General under section 24O of Civil Aviation Act 1969 [Act 3] – Amendment 2006.
3. Airside vehicle requirement is set out criteria of surface vehicles operating on or in the vicinity of the airside area.
4. Aerodrome operator is responsible to ensure all the vehicles that operate in the airside area complied to this directive.
5. This Directive outlines the application of provisions under the Malaysia Civil Aviation (Aerodrome Operation) Regulation 2016.
6. This Directive has been written in general terms. Specific advice could be obtained from the Authority at:

Department of Civil Aviation
Airport Standards Division
Level 1 Block Podium B Precinct 4
No. 27 Persiaran Perdana
62618 Putrajaya.
Phone: 03-88714000
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OBJECTIVE

7. This directive is to list down the requirement for vehicles operating in the airside area.
8. This Directive is also to ensure the requirement shall be complied by all aerodrome operators.

APPLICABILITY

9. The specification in this Directive shall apply to all aerodromes open to public transport aircraft.

AUTHORITY

10. The Authority referred to this Directive is the Director General of Civil Aviation.

AIRSIDE VEHICLE REQUIREMENT

11. Requirement for Vehicle

11.1 Requirement for a vehicle operating within fifteen metres of an aircraft

Petrol engines

- 11.1.1 The petrol engine of the vehicle shall be effectively flameproofed as follows:

- (a) The mixture adjustment for the induction system shall be such that exhaust pipe explosions cannot occur when the throttle is suddenly closed.
- (b) The carburettor air intake shall be fitted with a flame trap or arrestor. A standard automotive type oil-bath-cleaner complies with this requirement. Alternative types of flame traps or air filters must be approved by the Director General.
- (c) The gasket between the induction manifold and the cylinder block shall be such as to ensure an efficient gas-tight seal.

Exhaust system

11.1.2 The exhaust system of the vehicle shall comply with the following requirements:

- (a) The exhaust manifold and the section of the exhaust pipe adjacent to the manifold shall be shrouded with a metal cover to prevent petrol, oil or other combustible material from coming into contact with the hot metal. If the manifold cannot be affectively protected in such a manner, a drip trap shall be provided under the carburettor with drain pipe to direct waste petrol away from the manifold and exhaust pipe.
- (b) The tail pipe of the exhaust system shall be fitted with an approved type of spark arrestor. Because of the rapid case with which screen-type arrestors can collect carbon, they shall be serviced regularly to ensure that they remain in an efficient condition.
- (c) The entire exhaust system from the exhaust manifold to the tail pipe should be checked regularly to ensure that there are no gas leaks.

Fuel system

11.1.3 The fuel system of the vehicle, including the petrol tank, pipe lines, fuel pump, fuel filters and carburettors, shall be free of leaks. Any leakage shall be immediately rectified.

Electrical system

11.1.4 The electrical system of the vehicle shall comply with the following requirements:

- (a) Spark plugs shall be of an approved type.
- (b) The distributor cover shall be free of cracks or mechanical defects and shall fit tightly on the housing.
- (c) All high tension cables shall be fastened by means of screwed connection or its equivalent.

- (d) The voltage regulator and cut-out shall be enclosed by a close-fitting cover.
- (e) Fuses shall be of the glass-enclosed type and shall be protected from breakage by a cover.
- (f) The battery shall be suitably covered to avoid accidental shorting of the cells and shall be provided with adequate means of natural ventilation.
- (g) All switches shall be of the enclosed type.
- (h) Openings in the casing of the generator and starter motor shall be covered by a fine wire screen having not less 30 wire-meshes of size not less than 30 S.W.G.
- (i) Spark suppression shall be used where possible to reduce the intensity of sparking at switch and relay contacts and at the commutators of generators and starter motors.

Diesel system

11.1.5 The diesel engine of the vehicle shall comply with the following requirements:

- (a) The fuel system of the engine shall be free of leaks. Any leakage shall be immediately rectified.
- (b) The electrical equipment associated with diesel engines shall conform where applicable to the requirements for electrical equipment associated with petrol engines specified in sub-clause 9.1.4.
- (c) The air intake to the air blower shall be with a flame trap or arrestor. A standard automotive type oil-bath air-cleaner complies with this requirement. Alternative types of flame traps or air filters must be approved by the Director General.

Markings of the vehicles

11.1.6 The vehicle shall be painted with a distinguishing roundel comprising a 152 millimetres diameter green circle surrounded by a 25 millimetres white band.

11.1.7 The roundel shall be painted clearly discernible positions on the front and rear of the vehicle and in an appropriate position on other items of equipment.

11.2 Requirements for a vehicle operating in the movement area

Marking

11.2.1 The vehicle, unless it is a vehicle belonging to the Airport Emergency Service or Airport Police, shall be adequately marked as an obstruction and such marking shall take the following form:

- (a) the entire body of the vehicle down to the waist shall be painted yellow or white; and
- (b) the vertical yellow or white surface may, if required, contain the owner's insignia or logo.

Blue light

11.2.2 Low-intensive obstacle lights, displayed on vehicles associated with emergency or security shall be flashing-blue with flashing rate of 60 – 90 fpm.

Lights

11.2.3 The front and tail lights of the vehicle shall be switched on when the vehicle is used during the hours of darkness and the front lights shall be dipped when approaching of the oncoming traffic.

Electrical equipment

11.2.4 The electrical and ignition equipment of the vehicle shall be suppressed to the satisfaction of the Director General.

Fire extinguisher

11.2.5 The vehicle shall be equipped with BOMBA certified fire extinguisher – Dry Powder or CO2 securely mounted on suitable brackets affixed to a readily accessible position.

Tyres

11.2.6 The wheels of the vehicle shall be fitted with rubber tyres.

"No Smoking" Sign

11.2.7 A vehicle used for the transport of passengers and crew shall display a "No Smoking" sign inside the vehicle to all the occupants of the vehicle. During the hours of darkness this sign shall be illuminated.

Airport Emergency Service vehicle

11.2.8 Every vehicle belonging to the Airport Emergency Service shall-

- (a) be marked with the service's distinctive colour; and
- (b) display an occulting or flashing-blue light (flashing rate of 60 – 90 fpm) when in operation.

DATO' SRI AZHARUDDIN ABDUL RAHMAN
Director General
Department of Civil Aviation
Malaysia

Dated : 26 APRIL 2016