



GAMMA
PETROLEUM
SERVICES

EXPLOSION PROOF INSPECTION



EXPLOSION PROOF INSPECTION

Inspection & maintenance of electrical installations within hazardous areas only, where the hazard may be caused by flammable gases, vapours, mists, dusts, fibres or flyings.

MOVABLE EQUIPMENT

Movable electrical equipment (hand-held, portable, and transportable) is particularly prone to damage or misuse and therefore the interval between periodic inspections may need to be reduced.

The interval between periodic inspections shall not exceed the following without seeking expert advice:

- hand-held and portable equipment shall be visually checked by the user, before each use, to ensure that the equipment is not obviously damaged;
- all equipment shall be submitted to a close inspection at least every 12 months;
- enclosures which are frequently opened (such as battery housings) shall be given a detailed inspection at least every 6 months.

MOVABLE EQUIPMENT & ITS CONNECTIONS

Precaution shall be taken to ensure that movable electrical equipment (portable, transportable and hand-held) is used only in locations appropriate to its type of protection, equipment group and surface temperature.

Ordinary industrial movable equipment, welding equipment, etc. should not be used in a hazardous area unless its use is managed under a safe work procedure and the specific location has been assessed to ensure that there is no explosive atmosphere present.

Hazardous areas are classified into 3 zones based upon the frequency of the occurrence and duration Of an explosive gas atmosphere, As follows:

Zone 0

Area in which an explosive gas atmosphere is present continuously or for long periods or frequently.

Zone 1

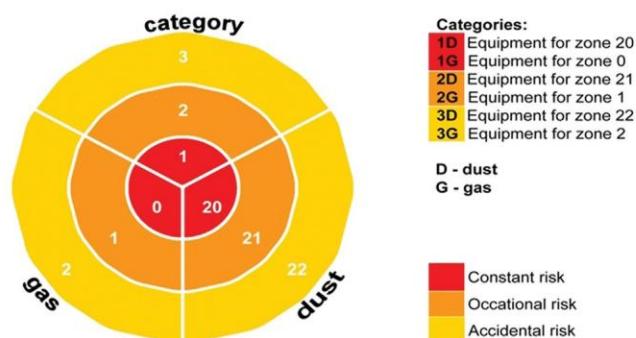
Area in which an explosive gas atmosphere is likely to occur in normal operation occasionally.

Zone 2

Area in which an explosive gas atmosphere is not likely to occur in normal operation but, if it does occur, Will persist for a short period only.

Non-hazardous area (safe area)

A non-hazardous area is an area in which an explosive atmosphere is not expected to be present.



NEC 500-503			NEC 505 IEC 60079-0	Requested Group	Permissible Group
Class I	Acetylene	Group A	Group IIC	IIA	IIA, IIB or IIC
Gas and vapors	Hydrogen	Group B	Group IIC	IIB	IIB or IIC
	Ethylene	Group C	Group IIB		
	Propane	Group D	Group IIA	IIC	IIC

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