CERTIFICATE OF ELECTRICAL INSPECTION AND TESTING AT FLAMMABLE LIQUIDS & FUEL STORES FOR EXISTING INSTALLATIONS IN AND ASSOCIATED WITH POTENTIALLY EXPLOSIVE ATMOSPHERES IN ACCORDANCE WITH I.S EN 60079

Certificate only to be completed by persons that can demonstrate core competence in electrical works in hazardous areas as per qualifications attached to this document

CHECKLIST FOR INSPECTION OF AN ELECTRICAL INSTALLATION

| An emergency stop switch is provided at every operating position An emergency stop switch is provided at each exit of the Autogas compound The autogas emergency stop switch(es) functions correctly Driver Controlled Delivery emergency stop switch functions correctly Firefighter's switch is at the correct height and functions correctly The public address (PA) system is operating correctly and is not disabled by the pump emergency stop system The tanker stand lighting is functioning correctly Fill points bonded to earth Vent pipes bonded to earth Earth electrode present Mains water bonded to earth Doms switched through emergency stop system Ducts sealed correctly with correct sealant The emergency switch circuit cannot be re-energized other than by an authorized person No loose electrical connections, including those for earthing, bonding etc No loose Rixings, glands, conduit, stoppers etc. No undue accumulation of dust, dirt or rubbish (leaves, paper etc.) No indication of fuel, oil or compound leakage explosion protection suitable for zone of installation correct circuit identification RCD protection has been provided for dispensers No overhead lines (e.g. HV and LV power and telephone lines) over or encroaching on hazardous areas No building opening extends into the hazardous area (including the zone around vent pipes) The zone around the vent pipes is free from electrical equipment including cables No part of the hazardous area extends beyond the forecourt perimeter (including the zone around vent pipes) Presence of lightning protection Labelling of circuits, protective devices, switches and terminals Main switchboard and distribution boards - circuit identification Evidence of emergency lighting reports Evidence of emergency lighting reports | All emergency stop switches are correctly labelled and have red operators on yellow background | |
|---|--|--|
| The autogas emergency stop switch(es) functions correctly Driver Controlled Delivery emergency stop switch functions correctly Firefighter's switch is at the correct height and functions correctly The public address (PA) system is operating correctly and is not disabled by the pump emergency stop system The tanker stand lighting is functioning correctly Fill points bonded to earth Vent pipes bonded to earth Earth electrode present Mains water bonded to earth Doms switched through emergency stop system Ducts sealed correctly with correct sealant The emergency switch circuit cannot be re-energized other than by an authorized person No loose electrical connections, including those for earthing, bonding etc No loose fixings, glands, conduit, stoppers etc. No corrosion of enclosures, fixings, cable entries etc. No undue accumulation of dust, dirt or rubbish (leaves, paper etc.) No indication of fuel, oil or compound leakage explosion protection suitable for zone of installation correct circuit identification RCD protection has been provided for dispensers No overhead lines (e.g. HV and LV power and telephone lines) over or encroaching on hazardous areas No building opening extends into the hazardous area (including the zone around vent pipes) The zone around the vent pipes is free from electrical equipment including cables No part of the hazardous area extends beyond the forecourt perimeter (including the zone around vent pipes) Presence of test earth fault loop impedance socket-outlet adjacent to supply intake (non-hazardous area) Presence of general electrical periodic inspection report (non-hazardous areas) Evidence of emergency lighting reports | An emergency stop switch is provided at every operating position | |
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| Evidence of emergency lighting reports | Main switchboard and distribution boards - circuit identification | |
| | Evidence of general electrical periodic inspection report (non-hazardous areas) | |
| Interceptor Alarm present and functioning correctly | Evidence of emergency lighting reports | |
| interceptor / dami present and fanotoning seriestly | Interceptor Alarm present and functioning correctly | |

CERTIFICATE OF ELECTRICAL INSPECTION AND TESTING AT FLAMMABLE LIQUIDS & FUEL STORES FOR EXISTING INSTALLATIONS IN AND ASSOCIATED WITH POTENTIALLY EXPLOSIVE ATMOSPHERES IN ACCORDANCE WITH I.S EN 60079

| Date: | | | | | |
|---|---------------------|--------------------------|--|-----------------|------------|
| Contractor Name & Address | Occupant Name | e/Trading as: | | | |
| | Address: | | | | |
| | | | | | |
| Reg No. | Installation Appr | ox. Age: | | | |
| Reason For Inspection: | If Othe | er please specif | y: | | |
| | | | | | |
| Extent of installation covered by this re | eport: | | | | |
| N.B Cables concealed within the fabric of to otherwise stated | he building, condui | ts and trunking o | or underground have r | not been inspec | ted unless |
| If Partial please state what part this | s report refers t | :0: | | | |
| | | | | | |
| Type of Earthing: No. of I | Phases: | Frequency: | Voltages: | | |
| If earthing is TNC-S then please refer to 9.3.5, APEA/EI DESIGN, MODIFICATION, MAINTENANCE AND DECOMMISSIONING OF | | S 4th edition April 2018 | L1 | L1-L2 | |
| Prospective Short Circuit Current: | Α | | L2 | L2-L3 | |
| Prospective Fault Current: | Α | | L3 | L3-L1 | |
| External Earth Fault Loop Impedance Zs | : Ohms | Max. Earth Fa | ault Loop Impedance | e Ze: | Ohms |
| Primary supply Overcurrent protective | device: | | | | |
| TYPE: RELEVANT EN STA | ANDARD: | N | OMINAL CURRENT R | ATING: | Α |
| SHORT CIRCUIT CAPACITY: | kA | | | | |
| Main Switch or Circuit Breaker: | | | | | |
| VOLTAGE RATING: V CURR | ENT RATING: | A RCD | RATED OPERATING | CURRENT: | mA |
| OPERATING TIME: ms | | | | | |
| Test Instrument Serial Numbers | Site Docume | ntation to be a | ttached_ | | |
| Continuity Tester: | | | n I.S EN 60079-10-1 and temperature cl | | |
| Insulation Resistance Tester: | Sufficient red | ords to enable | the explosion proterith it's type of prote | ected equipme | ent to be |
| Loop Impedance Tester: | Installation d | rawings as req | uired by IS 10101 ected equipment | 200011 | |

Combination Tester:

LFRS Model Elec Test Cert to I.S EN 60079

Descriptive system document for intrinsically safe circuits (if applicable)

Version 1

Any other documentation required by statute

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HAZARDOUS AREA CIRCUITS TESTED Circuit Description: Labelled correctly: No. of Phases: Wiring Type: Conductors CSA: Multi-pole Isolation: **OVERCURRENT PROTECTIVE DEVICE:** EN Standard: Rating: Α Short Circuit Capacity: kΑ Type: Maximum permissible earth fault loop impedance ZL: Ω Circuit Impedance (R1+R2): Ω **INSULATION RESISTANCE:** $M\Omega$ Phase-Neutral Phase-Phase Phase-Earth Neutral-Earth $M\Omega$ $M\Omega$ $M\Omega$ Polarity: Ω Maximum measured earth fault loop impedance: Functionally checked as per IS 10101 Phase sequence and motor rotation check as per IS 10101 Circuit Description: Labelled correctly: No. of Phases: Wiring Type: Conductors CSA: Multi-pole Isolation: **OVERCURRENT PROTECTIVE DEVICE: EN Standard:** Rating: Α **Short Circuit Capacity:** kΑ Type: Maximum permissible earth fault loop impedance ZL: Ω Circuit Impedance (R1+R2): Ω **INSULATION RESISTANCE:** Phase-Phase $M\Omega$ Phase-Neutral Phase-Earth Neutral-Earth $\mathsf{M}\Omega$ $\mathsf{M}\Omega$ $M\Omega$ Polarity: Maximum measured earth fault loop impedance: Ω Functionally checked as per IS 10101

Phase sequence and motor rotation check as per IS 10101

LFRS Model Elec Test Cert to I.S EN 60079

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Version 1

| | HAZA | ARDOUS AREA C | CIRCUIT | S TESTED | | | | |
|-----------------------|--------------------------|------------------|---------|------------|------------|----------------|----------|-----------|
| Circuit Description: | | Label | led cor | rectly: | | | | |
| | | | | | | | | |
| No. of Phases: | Wiring Type: | Conducto | ors CSA | : | Multi-po | ole Isolation: | | |
| OVERCURRENT PROTEC | TIVE DEVICE: | | | | | | | |
| EN Standard: | Type: | Rating: | Α | Short Circ | cuit Capad | ity: | kA | |
| Maximum permissible e | arth fault loop impeda | ance ZL: | Ω | Circuit Im | pedance (| R1+R2): | Ω | |
| INSULATION RESISTANCE | <u>CE:</u> | | | | | | | |
| Phase-Phase | MΩ Phase-Neu | tral M Ω | Phas | e-Earth | $M\Omega$ | Neutral-Earth | | $M\Omega$ |
| Polarity: | Maximum measured | earth fault loop | o imped | dance: | Ω | | | |
| Functionall | y checked as per IS 10 | 0101 | | | | | | |
| Phase sequ | uence and motor rotat | tion check as pe | er IS 1 | 0101 | | | | |
| Circuit Description: | | Label | led cor | rectly: | | | | |
| No. of Phases: | Wiring Type: | Conducto | ors CSA | : | Multi-po | ole Isolation: | | |
| OVERCURRENT PROTEC | TIVE DEVICE: | | | | | | | |
| EN Standard: | Type: | Rating: | Α | Short Circ | cuit Capad | ity: | kA | |
| Maximum permissible e | arth fault loop impeda | ance ZL: | Ω | Circuit In | npedance | (R1+R2): | Ω | |
| INSULATION RESISTANCE | CE: | | | | | | | |
| Phase-Phase | M Ω Phase-Neu | tral M Ω | Phas | e-Earth | $M\Omega$ | Neutral-Earth | | $M\Omega$ |
| Polarity: | Maximum measured | earth fault loop | o imped | dance: | Ω | | | |
| Functional | ly checked as per IS 1 | 0101 | | | | | | |
| Phase sequ | uence and motor rota | tion check as pe | er IS 1 | 0101 | | | | |
| | est Cert to I.S EN 60079 | Page 4 o | of 0 | | | V | ersion 1 | |

| | HAZA | ARDOUS AREA C | IRCUITS TESTE | D | |
|-----------------------|--------------------------|------------------|-----------------|------------------------|--------------|
| Circuit Description: | | Labell | led correctly: | | |
| | | | | | |
| No. of Phases: | Wiring Type: | Conducto | rs CSA: | Multi-pole Isolation: | |
| OVERCURRENT PROTEC | CTIVE DEVICE: | | | | |
| EN Standard: | Type: | Rating: | A Short | Circuit Capacity: | kA |
| Maximum permissible e | earth fault loop imped | ance ZL: | Ω Circu | it Impedance (R1+R2) : | Ω |
| INSULATION RESISTANCE | CE: | | | | |
| Phase-Phase | MΩ Phase-Neu | tral M Ω | Phase-Earth | $M\Omega$ Neutral-Eart | h M Ω |
| Polarity: | Maximum measured | earth fault loop | impedance: | Ω | |
| Functiona | lly checked as per IS 1 | 10101 | | | |
| Phase sequ | uence and motor rota | tion check as pe | r IS 10101 | | |
| Circuit Description: | | Labell | led correctly: | | |
| No. of Phases: | Wiring Type: | Conducto | rs CSA: | Multi-pole Isolation: | |
| OVERCURRENT PROTEC | TIVE DEVICE: | | | | |
| EN Standard: | Type: | Rating: | A Short | Circuit Capacity: | kA |
| Maximum permissible e | earth fault loop imped | ance ZL: | Ω Circui | t Impedance (R1+R2) : | Ω |
| INSULATION RESISTANCE | CE: | | | | |
| Phase-Phase | M Ω Phase-Neu | tral M Ω | Phase-Earth | $M\Omega$ Neutral-Eart | h M Ω |
| Polarity: | Maximum measured | earth fault loop | impedance: | Ω | |
| Functiona | lly checked as per IS | 10101 | | | |
| Phase sequ | uence and motor rota | tion check as pe | er IS 10101 | | |
| LFRS Model Elec T | est Cert to I.S EN 60079 | Page 5 o | of 8 | | Version 1 |

| | HAZ | ARDOUS AREA (| CIRCUITS TESTE | D | |
|--|------------------------|------------------|------------------|------------------------|----------------|
| Circuit Description: | | Labe | led correctly: | | |
| | | | | | |
| No. of Phases: | Wiring Type: | Conducto | ors CSA: | Multi-pole Isolation: | |
| OVERCURRENT PROTEC | CTIVE DEVICE: | | | | |
| EN Standard: | Type: | Rating: | A Short (| Circuit Capacity: | kA |
| Maximum permissible e | earth fault loop imped | ance ZL: | Ω Circuit | Impedance (R1 + R2) : | Ω |
| INSULATION RESISTAN | CE: | | | | |
| Phase-Phase | M Ω Phase-Neu | utral M Ω | Phase-Earth | M Ω Neutral-Ear | th M Ω |
| Polarity: | Maximum measured | earth fault loo | p impedance: | Ω | |
| Functiona | lly checked as per IS | 10101 | | | |
| Phase seq | uence and motor rota | ntion check as p | er IS 10101 | | |
| Circuit Description: Labelled correctly: | | | | | |
| No. of Phases: | Wiring Type: | Conducto | ors CSA: | Multi-pole Isolation: | |
| OVERCURRENT PROTEC | CTIVE DEVICE: | | | | |
| EN Standard: | Type: | Rating: | A Short (| Circuit Capacity: | Ка |
| Maximum permissible | earth fault loop imped | lance ZL: | Ω Circuit | Impedance (R1 + R2) : | Ω |
| INSULATION RESISTAN | CE: | | | | |
| Phase-Phase | M Ω Phase-Neu | ıtral M Ω | Phase-Earth | $M\Omega$ Neutral-Ear | rth M Ω |
| Polarity: | Maximum measured | earth fault loo | p impedance: | Ω | |
| Functiona | illy checked as per IS | 10101 | | | |
| | | | | | |
| Phase seq | uence and motor rota | ition check as p | er IS 10101 | | |

| Observations and recommendations including timeframe for completion of remedial action: | Recommendation as detailed below |
|---|----------------------------------|
| No remedial works required | |
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One of the following numbers, as appropriate is allocated to each of the observations made above to indicate to the person(s) responsible for the installation the action recommended.

(1) REQUIRES URGENT ATTENTION (2) REQUIRES IMPROVEMENTS (3) REQUIRES SOME ATTENTION (4) DOES NOT COMPLY WITH CURRENT NATIONAL RULES FOR ELECTRICAL INSTALLATIONS IN POTENTIALLY EXPLOSIVE ATMOSPHERSES*

| OVERALL ASSESSMENT: | |
|---------------------------------------|--|
| Name of Tester: | Qualifications: |
| Date of Inspection: | Report Date: |
| Recommended date for next inspection: | |
| Signature of Inspect | tor: |
| | |
| | |
| | |
| | |
| | rtification of Qualifications f core competence for working in hazardous areas e.g. Compex 07/08 |
| | please attach documentation here |
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