NICEIC APPROVED CONTRACTOR

AMGS ELECTRICAL LTD

This certificate is not valid if the serial number has been defaced or altered **PRN4/0301155**

FILLING STATION ELECTRICAL PERIODIC INSPECTION REPORT

Issued by an Approved Contractor enrolled with NICEIC, Warwick Hall Park, Houghton Regis, Dunstable LU5 5ZX

Original (To the person ordering the work)

A DETAILS OF SITE OPERATOR

Name of site operator	SAFTDOWN
Trading Title	MARTINS OF ANDOVER
Address of filling station	50 LONDON ROAD ANDOVER HANTS Telephone No 01264 323002 Postcode SP10 2PE

B CLASSIFICATION AND CERTIFICATION OF SITE

I/We being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above (see A), having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations (see G) and the attached schedules, provide an accurate assessment of the condition of the electrical installation taking into account the stated extent of the installation (see D) and the limitations of the inspection and testing (see E). The inspection and testing has been performed in accordance with the APEA/IP guidance, BSEN 60079 and BS 7671.

I/We further declare that in my/our judgement the said installation was overall in was carried out, and that it should be further inspected as recommended (see F). B **condition (see G) at the time the inspection**

Inspection, testing and assessment by			**Reviewed by**		
Signature			Signature		
Name (CAPITALS)	NICHOLAS SCALLY	Inspector	Name (CAPITALS)	NICHOLAS SCALLY	Qualified Supervisor (Hazardous Areas)
Position	Q SUPERVISOR				
Date	11/12/2013		Date	11/12/2013	

Contractor responsible for the work which is the subject of this certificate (trading title)	AMGS ELECTRICAL LTS	Roll No: 040789	
Trading Address	UNIT 9 HANHAM BUSINESS PARK MEMORIAL ROAD, HANHAM	Telephone No.	01179676800

C PURPOSE OF THE REPORT

Purpose for which this report is required	ANNUAL ELECTRICAL CONDITION REPORT FOR THE PETROLEUM LICENCE

D EXTENT OF THE INSTALLATION

Extent of the electrical installation covered by this report	HAZARDOUS AREAS ONLY

E LIMITATIONS OF INSPECTION AND TESTING

Agreed limitations, if any,on the inspection	CONDITION OF ELECTRICAL EQUIPMENT NOT ACCESSABLE AT TIME OF INSPECTION

F NEXT INSPECTION

I/We recommend that this installation is further inspected and tested after an interval of not more than

(Enter interval in terms of years or months, as appropriate)

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Please see the 'Notes for Recipients' on the reverse of this page.

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G OBSERVATIONS AND RECOMMENDATIONS FOR ACTION TO BE TAKEN

Item No		Code (A, B, C)	Remedial action required by (date)
1	EXISTING DISTRIBUTION BOARD REQUIRES RELABELLING	B	01/12/2014
2	DISPENSER 9/10 CABLE HAS NO SEPERATE EARTH CONDUCTOR, CABLE SHEATH BEING USED	NOTED	
3	WINDOW FOR CAR SALES WITHIN HAZARDOUS AREAS AROUND VENT PIPES	NOTED	
4	NO SITE DOCUMENTS FOR EXISTING INSTALLATION AVAILABLE	B	01/12/1114
5	LOW INSULATION ON DISPENSERS 5/6 AND7/8 CABLES FINE ISSUES WITH DISPENSERS	NOTED	
6	FIREMANS SWITCH ABOVE 2MTS AS STATED IN IP/APEA GUIDE	B	01/12/2014
7	HIGH DIVERTED NEUTRAL CURRENT, THIS IS DUE TO TNC-S EARTH AS SOURCE OF SUPPLY	NOTED	
8	ALL NOTED ISSUES TO BE RECTIFIED AT NEXT MAJOR REVAMP ON HAZARDOUS AREAS		

Urgent remedial work recommended for Items

Corrective action(s) recommended for Items 1,4,6

Note: Items coded 'B' and 'C' are also recorded on the defect report

H SITE DOCUMENTS

The inspector is required to con?rm that all applicable related reference documents have been recorded.

		Serial No	Date
×	Electrical Installation Completion Certificate		
✔	Previous Filling Station Electrical Periodic Inspection Reports	DRB/P/3851	11/12/2012
×	Site Plan No		
N/A	Earth electrode layout drawing		
✔	Inventory of electrical equipment	PR/DRB	19/09/2011
✔	Hazardous area classification document	20033127	29/05/2009
N/A			
N/A			
N/A			

I TEST INSTRUMENTS USED

Test instrument:	Manufacturer	Model	Serial No
Earth fault loop impendance			
Insulation resistance	MEGGER	1752	1074673
Earth electrode resistance			
Protective conductor current	DI LOG	DL6507	08097570
RCD	MEGGER	1752	1074673
Continuity	MEGGER	1752	1074673
Other			

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J SUPPLY CHARACTERISTICS AND MAIN SWITCH

Tick boxes and enter details, as appropriate

System Type	TT	N/A	TN-S	N/A	Local TN-S	N/A	TN-C-S	✔			
Number and type of live conductors	1-phase, 2 wire	N/A	3-phase, 4 wire	N/A	Other	N/A	(please state)				
Nature of supply parameters	Nominal voltage U(1)	400 V	Nominal frequency(1)	50 Hz	Prospective fault current(2)(3)	2.88 kA	External Ze(2)(3)	0.20 Ω			
	U0(1)	230 V					No of supplies	1			
Characteristics of primary supply overcurrent protective device(s)	BS EN	1361	Type	11B	Rated current	100 A	Short-circuit capacity	33 kA			
Main switch or circuit-breaker	BS EN	88	No of poles	3	Supply conductor material	CU	Supply conductor csa	25 mm²			
	Voltage rating	400 V	Current rating	100 A	Rated residual RDC operating current	LIM mA	RDC operating time at residual operating current	LIM ms			
Rated fault current of forecourt switchgear		kA									

(1) by enquiry *(2) by enquiry or by measurement* *(3) where more than one supply, record highest value*

K TEST PERFORMED AT INTAKE POSITION

† *See not below*

Earth fault loop impedance (phase to earth) measured at (tick one) test socket-outlet	✔	or at origin(no test socket)	N/A	0.20	< 25	✔	The test socket-outlet is adjacent to the origin of the filling station installation (located in a non-hazardous area)	
Prospective fault current (tick one)	I-n	✔	I-e	N/A	2.88 kA	×	The test socket-outlet has the correct isolation and protection	
Current measured in earthing conductor under normal conditions				213m A	100m A	✔	Main Earthing Terminal test link is labelled	
Combined resistance of earth electrode arrangement (where measured)			R_A	LIM Ω	Ω	✔	Main equipotential bonding checked	
Operating times of residual current device (RCD) at $I_{\Delta n}$ and at $5I_{\Delta n}$			$I_{\Delta n}$	LIM ms	ms	Ground Condition	DRY	
			$5I_{\Delta n}$	LIM ms	ms			

L FUNCTIONAL CHECKS

✔	Publicly-accessible emergency switching devices (where ?tted) function correctly and are installed at the correct height	✔	All emergency stop switches are correctly labelled and have red operators on yellow background	N/A	The Driver Controlled Delivery emergency stop switch functions correctly
✔	Operator-controlled emergency switching devices function correctly	✔	An emergency stop switch is provided at every operator position	N/A	Fire?ghter's switch is at the correct height and functions correctly
✔	The emergency switch circuit cannot be re-energized other than by an authorized person	N/A	An emergency stop switch is provided at each exit of the autogas compound	N/A	The public address (PA) system is operating correctly and is not disabled by the emergency stop system
		N/A	The autogas emergency stop switch(es) functions correctly	N/A	The tanker stand lighting is functioning correctly

† ***All boxes must be completed.*** *"✔" indicates that an inspection or test was carried out and the result was* ***satisfactory.*** *"×" indicates that an inspection or a test was carried out and that the result was* ***unsatisfactory*** *"N/A" indicates that an inspection or test was* ***Not Applicable*** *to the particular installation.* ***"LIM"*** *indicates that, exceptionally, a limitation agreed with the person ordering the work (see E) prevented the inspection being c*

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Original (To the person ordering the work)

M CHECKLIST FOR INSPECTION OF AN ELECTRICAL INSTALLATION

LIM	1	Presence of records, diagrams and schedule information
✔	2	Electrical characteristics at the origin
✔	3	Earthing connections and main protective bonding
✔	4	Presence of test earth fault loop impedance socket-outlet adjacent to supply intake (non-hazardous area)
N/A	5	Presence of lightning protection
✔	6	Protective measures for basic and fault protection
LIM	7	Main switchboard and distribution boards - circuit identi?cation
LIM	8	Labelling of circuits, protective devices, switches and terminals
✔	9	Presence of appropriate devices for secure isolation and switching
✔	10	Isolating devices capable of being locked in the 'off' position
✔	11	Choice and setting of protective and monitoring devices
✔	12	Correct connection of socket-outlets, lamp holders and other accessories
✔	13	Single pole devices for protection or switching in line hazardous area circuits, including emergency switching
✔	14	All live conductors (including neutral) are switched and isolated for accessories
✔	15	Ancillary equipment - luminaires, socket-outlets, portable and transportable equipment
✔	16	Selection of equipment and protective measures appropriate to external in?uences
✔	17	Identi?cation and connection of conductors
✔	18	Selection of wiring systems and conductors for current-carrying capacity and voltage drop
✔	19	Cables routed correctly
✔	20	Presence of ?re barriers and protection against thermal effects
✔	21	Integrity of ducts, ducting, trenches, piping, access chambers etc. for fuel in both liquid and gaseous forms
✔	22	Presence of signs, labels and other warning notices
✔	23	Lighting (e.g. enclosures and seals)
✔	24	Serviceable lamps of correct types and ratings
✔	25	Apparatus is suitable for environment and correctly labelled
✔	26	No damage to apparatus or wiring systems which might impair safety
✔	27	No unauthorised or unrecorded modi?cations/repairs or 'add-ons'
✔	28	No overhead lines (e.g. HV and LV power and telephone lines) over or encroaching on hazardous areas
✔	29	No part of the hazardous area extends beyond the forecourt perimeter (including the zone around vent pipes)
LIM	30	No building opening extends into the hazardous area (including the zone around vent pipes)
✔	31	The zone around the vent pipes is free from electrical equipment including cables
✔	32	Suitability of residual current device (RCD) protection
✔	33	There is no equipment which may in?uence the hazardous area by, for example, displacing and /or ingesting air out of, or into, the hazardous area
✔	34	RCD protection has been provided for dispensers
✔	35	The location and adequacy of the tanker stand lighting is correct
✔	36	Additional checks for all hazardous area equipment and components (this does not refer only to dispensers):
✔		a nameplate details - accredited certi?cation mark, certi?cate standard number
✔		b explosion protection suitable for zone of installation
✔		c correct temperature classi?cation
✔		d appropriate apparatus group or subgroup
✔		e correct circuit identi?cation
✔		f maintenance of integrity of enclosures
✔		g cable glands, entries and stoppers etc. complete and appropriate to the enclosure
✔		h integrity of electrical connections
✔		i satisfactory earthing, bonding etc.
✔		j correct rating of apparatus and components
✔		k adequate environmental protection, e.g. against weather, mechanical damage
✔	37	Details of other items of non-compliance
✔	38	No indication of fuel, oil or compound leakage
✔	39	No corrosion of enclosures, fixings, cable entries etc.
✔	40	No undue accumulation of dust, dirt or rubbish (leaves, paper etc.)
✔	41	No loose electrical connections, including those for earthing, bonding etc.
✔	42	No loose fixings, glands, conduit, stoppers etc.
✔	43	No wear or undue running noise of pump motor bearings (external check only, e.g. lateral movement of shaft or signs of overheating)
✔	44	No inadvertent contact between moving and fixed parts
✔	45	Integrity of guards
✔	46	Maintenance appears adequate (as per manufacturer's recommendations) and properly documented
✔	47	Accessible and impervious seals in ducts / ducting / pipes
LIM	48	Veri?cation of phase sequence
LIM	49	Veri?cation of voltage drop

† ***All boxes must be completed.*** *"✔" indicates that an inspection or test was carried out and the result was* ***satisfactory.*** *"×" indicates that an inspection or a test was carried out and that the result was* ***unsatisfactory*** *"N/A" indicates that an inspection or test was* ***Not Applicable*** *to the particular installation.* ***"LIM"*** *indicates that, exceptionally, a limitation agreed with the person ordering the work (see E) prevented the inspection being c*

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N HAZARDOUS AREA CIRCUIT DETAILS

Circuit designation (Such as dispenser or submersible pump)	1ø or 3ø	Wiring type	Circuit conductors: csa		Overcurrent protective devices				RCD		Lowest insulation resistance		Leakage current	Equipment serial number	Fule type (petrol, autogas)	No of nozzles	Certification (i) EN 13617, (ii) BS 7117, (iii) SFA 3002	Type of Ex protection of junction box e.g Exd,Exe	Type of Ex protection of cable gland e.g Exd,Exe	Suitability of apparatus for zone (✓ or ×)	Visual condition of enclosures (✓ or ×)	Condition of gaskets, stoppers, fastenings (✓ or ×)	Integrigty of connections (✓ or ×)	IP ratings of enclosures (✓ or ×)	No contact between fixed and moving parts (✓ or ×)	No undue noise/viberation from motor/bearings (✓ or ×)	Low Ω continuity (wander lead method)	No visible damage or unauthorized modifications	Classification (A,B,C)
			Live (mm²)	cpc of sheath (mm²)	BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Operating current, $I_{\Delta n}$ (mA)	Operating time at, $I_{\Delta n}$ (ms)	Line/Earth (MΩ)	Neutral Earth (MΩ)	(mA)														(Ω)		
DISPENSER 1/2	1	H	1.5	1.5	60898 MC	C	16	6	30	26.7	16.5	16.5	50.1	566111	P/D	4	i	EXe	EXde	✓	✓	✓	✓	✓	✓	✓	0.28	OK	B
DISPENSER 3/4	1	H	1.5	1.5	60898 MC	C	16	6	30	26.7	10.2	10.2	51.4	565402	P/D	4	i	EXe	EXde	✓	✓	✓	✓	✓	✓	✓	0.30	OK	B
DISPENSER 5/6	1	H	1.5	1.5	60898 MC	C	16	6	30	26.7	3.5	3.5	20.9	566109	P/D	4	i	EXe	EXde	✓	✓	✓	✓	✓	✓	✓	0.26	OK	B
DISPENSER 7/8	1	H	1.5	1.5	60898 MC	C	16	6	30	26.7	5	5	1.1	565400	P/D	4	i	EXe	EXde	✓	✓	✓	✓	✓	✓	✓	0.29	OK	B
DISPENSER 9/10	1	H	1.5	SH	60898 MC	C	16	6	30	26.7	200+	200+	4.9	LIM	P	2	LIM	EXe	EXde	✓	✓	✓	✓	✓	✓	✓	0.24	OK	B
DISPENSER 11/12	1	H	1.5	1.5	60898 MC	C	16	6	30	26.7	200+	200+	11.9	LIM	P	2	LIM	EXe	EXde	✓	✓	✓	✓	✓	✓	✓	0.29	OK	B

† ***All boxes must be completed***

"✓" indicates that an inspection or a test was carried out and that the result was ***satisfactory***
"×" indicates that an inspection or a test was carried out and that the result was ***unsatisfactory***
"N/A" indicates that an inspection or a test was ***not applicable*** *to the particular installation.*
"LIM" indicates that, exceptionally ***a limitation*** *agreed with the person ordering the work (as recorded in Section E) prevented the inspection or test being carried out.*

CODES FOR TYPE OF WIRING			
F	G	H	O (Other - please state)
PVC/SWA cables	XLPE/SWA cables	Mineral-insulated cables	

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CERTIFICATE OF ELECTRICAL INSPECTION AND TESTING AT FILLING STATIONS FOR NEW INSTALLATIONS IN AND ASSOCIATED WITH POTENTIALLY FLAMMABLE ATMOSPHERES HEALTH AND SAFETY AT WORK ETC. ACT 1974, ELECTRICITY AT WORK REGULATIONS 1989, DANGEROUS SUBSTANCES AND EXPLOSIVE ATMOSPHERES REGULATIONS 2002

Issued by an Approved Contractor enrolled with NICEIC, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX.

DETAILS OF THE SITE OPERATOR

Name of site operator: SAFTDOWN

Business name: MARTINS OF ANDOVER

Address of filling station: 50 LONDON ROAD, ANDOVER, HANTS

Telephone No. 01264 323002 PostCode SP10 2PE

DETAILS OF THE INSPECTION AND TESTING

Date of the inspection and test: 11/12/2013

Age of electrical installation: 10 YEARS PLUS years (approximate if relevant records are not available

INSTALLATION STATUS

Type of site	Type of verification	Availability of records	Verification programme
Existing site	Periodic verification	~~Site electrical records available~~	~~3~~
		Site electrical record not available	4

CERTIFICATION STATEMENT

I declare I am competent to sign this certi?cate and I hereby certify that the electrical installation in the above premises operated for the storage, use and dispensing of petroleum spirit and autogas has been inspected and tested in accordance with veri?cation programme(s) 4 of APEA/IP Design, *construction, modi?cation, maintenance and decommissioning of filling stations.*

The classification awarded is: B

* Delete as appropriate

~~*A~~ SATISFACTORY as far as could be ascertained.

*B SUITABLE FOR CONTINUED USE subject to defects being remedied before the date(s) shown on the accompanying Inspection and Test Report.

~~*C~~ UNSATISFACTORY, defects observed are of a dangerous nature and require immediate attention. The presence of the recorded defects could make the site operator or their agent liable to prosecution.

The Classi?cation awarded relates to the classi?cation of the worst defect observed.
For Classi?cation B and C, the Defect Report should be completed.

This certificate relates to:

Inventory checklist No: Dated:

Inspection and test report no: Dated:

Initial assessment No: Dated:

For the verification of the installation:

Signature: Date: 11/12/2013

Name (CAPITALS): NICHOLAS SCALLY Inspector

Reviewed by:

Signature: Date: 11/12/2013

Name (CAPITALS): NICHOLAS SCALLY Qualified Supervisor (Hazardous Areas)

Approved Contractor responsible for the work which is subject of this certificate (trading title): AMGS ELECTRICAL LTD

NICEIC Enrolment No: (Essential Information) 040789

Trading Address: UNIT 9
HANHAM BUSINESS PARK
MEMORIAL ROAD, HANHAM
BRISTOL
BRISTOL

Branch Number (if applicable):

Telephone No: 01179676800

NOTES 1. It is an offence under Section 33 of the Health and Safety at Work etc. Act 1974 for any person to make a false entry on this certi?cate.
2. The person carrying out the inspection and testing must be competent, be fully conversant with BS 7671 - Requirements for electrical installations and the particular requirements for hazardous area zones in ?lling stations, and have practical experience of the relevant parts of BS EN 60079 Electrical apparatus for explosive gas atmospheres.

All persons completing and signing this certi?cate are reminded of the legal requirements for competence contained in Regulation 16 of the statutory Electricity at Work Regulations.

The defects to be recorded on the Defect Report are those relating to failure to meet Statutory requirements. Non-compliances relating to other items should only be recorded on section G of the Filling Station Electrical Periodic Inspection Report.

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