

## ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with British Standard 7671 - Requirements for Electrical Installations by an Approved Contractor or Conforming Body enrolled with NICEIC, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable, LU5 5ZX

### DETAILS OF THE CLIENT

Client / Address: Birmingham Airport Ltd, Property Services, Fourth Floor, Diamond House, Birmingham Airport Postcode: B26 3QJ

### DETAILS OF THE INSTALLATION

Address: Room VH50, Second Floor, Viscount House, Birmingham Airport Postcode: B26 3QJ The installation is: New   
 Extent of the installation covered by this certificate: Installation of consumer unit, supply cable, lighting and power circuits in Room VH50 as specified in contract No. ES1476 only. An addition   
 An alteration

### DESIGN

I/We, being the person(s) responsible for the design of the electrical installation (as indicated by my/our signature(s) below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, hereby CERTIFY that the design work for which I/we have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671 amended to January 2012 (date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3,120.4): None noted

The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate. For the DESIGN of the installation:


Signature  Date 17/04/2012 Name (CAPITALS) D. LEE Designer 1  
 Signature \_\_\_\_\_ Date 17/04/2012 Name (CAPITALS) \_\_\_\_\_ \*\* Designer 2

### CONSTRUCTION

I/We, being the person(s) responsible for the construction of the electrical installation (as indicated by my/our signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the construction work for which I/we have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671 amended to January 2012 (date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3,120.4): None noted

The extent of liability of the signatory is limited to the work described above as the subject of this certificate. For the CONSTRUCTION of the installation:



Signature  Date 17/04/2012 Name (CAPITALS) R. SARTIN Constructor

### INSPECTION AND TESTING

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, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the work for which I/we have been responsible is, to the best of my/our knowledge and belief, in accordance with BS 7671 amended to January 2012 (date) except for the departures, if any, detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3,120.4): None noted

The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate. For the INSPECTION AND TESTING of the installation:

Signature  Date 17/04/2012 Name (CAPITALS) A. COPE Inspector  
 Signature  Date 17/04/2012 Name (CAPITALS) A. COPE Qualified Supervisor †

### DESIGN, CONSTRUCTION, INSPECTION AND TESTING \*

\* This box to be completed only where the design, construction, inspection and testing have been the responsibility of one person.

I, being the person responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing, hereby CERTIFY that the said work for which I have been responsible is to the best of my knowledge and belief, in accordance with BS 7671, amended to \_\_\_\_\_ (date) except for the departures, if any, detailed as follows:


Details of departures from BS 7671, as amended (Regulations 120.3,120.4): \_\_\_\_\_

The extent of liability of the signatory is limited to the work described above as the subject of this certificate. For the DESIGN, the CONSTRUCTION and the INSPECTION AND TESTING of the installation:

Signature \_\_\_\_\_ Date 17/04/2012 Name (CAPITALS) \_\_\_\_\_  
 Signature \_\_\_\_\_ Date 17/04/2012 Name (CAPITALS) \_\_\_\_\_ Reviewed by  
 Qualified Supervisor ††

† Where the inspection and testing have been carried out by an Approved Contractor, the inspection and testing results are to be reviewed by the registered Qualified Supervisor.  
 †† Where the design, the construction, and the inspection and testing have been the responsibility of one person, the inspection and testing results are to be reviewed by the registered Qualified Supervisor.

### PARTICULARS OF THE ORGANISATION(S) RESPONSIBLE FOR THE ELECTRICAL INSTALLATION

<b>DESIGN (1)</b>	Organisation †	Eviva Services Ltd		
Address:	Rapide Building Ramp Road Birmingham Airport Birmingham West Midlands	Postcode: B26 3QJ	NICEIC Enrolment No (where appropriate)	502741000
			Branch number: (if applicable)	
<b>DESIGN (2)</b>	Organisation †			
Address:		Postcode:	NICEIC Enrolment No (where appropriate)	
			Branch number: (if applicable)	
<b>CONSTRUCTION</b>	Organisation †	Eviva Services Ltd		
Address:	Rapide Building Ramp Road Birmingham Airport Birmingham West Midlands	Postcode: B26 3QJ	NICEIC Enrolment No (Essential Information)	502741000
			Branch number: (if applicable)	
<b>INSPECTION AND TESTING</b>	Organisation †	Eviva Services Ltd		
Address:	Rapide Building Ramp Road Birmingham Airport Birmingham West Midlands	Postcode: B26 3QJ	NICEIC Enrolment No (where appropriate)	502741000
			Branch number: (if applicable)	

### SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Tick boxes and enter details, as appropriate

System Type(s)	Number and Type of Live Conductors				Nature of Supply Parameters				Characteristics of Primary Supply Overcurrent Protective Device(s)	
TN-S <input checked="" type="checkbox"/>	a.c. <input checked="" type="checkbox"/>	d.c. <input type="checkbox"/>	N/A		Nominal Voltage(s): $U^{(1)}$	400 V	$U_0^{(1)}$	230 V	BS(EN) BS EN 60947-2 MCCB	
TN-C-S <input type="checkbox"/>	1-phase (2 wire) <input type="checkbox"/>	N/A	1-phase (3 wire) <input type="checkbox"/>	N/A	2 pole <input type="checkbox"/>	N/A	Nominal frequency, $f^{(1)}$	50 Hz	Notes: (1) by enquiry	
TN-C <input type="checkbox"/>	2-phase (3 wire) <input type="checkbox"/>	N/A	3 pole <input type="checkbox"/>		N/A	Prospective fault current, $I_{pf}^{(2)(3)}$	> 20 kA	(2) by enquiry or by measurement		
TT <input type="checkbox"/>	3-phase (3 wire) <input type="checkbox"/>	N/A	3-phase (4 wire) <input checked="" type="checkbox"/>	other <input type="checkbox"/>	External earth fault loop impedance, $Z_e^{(2)(3)}$	0.01 $\Omega$	(3) where more than one supply, record the higher or highest values		Type MCCB	
IT <input type="checkbox"/>	Other <input type="checkbox"/>				Number of supplies	1	(4) by measurement		Rated current 630 A	
									Short-circuit capacity 50 kA	

### PARTICULARS OF INSTALLATION AT THE ORIGIN

Tick boxes and enter details, as appropriate

Means of Earthing		Details of Installation Earth Electrode (where applicable)				Maximum Demand (Load)		Protection measure against electric shock:	
Distributor's facility: <input checked="" type="checkbox"/>	Type: (eg rod(s), tape etc) N/A	Location: N/A		Method of measurement: N/A		630	Amps	ADS	
Installation earth electrode: <input type="checkbox"/>	Electrode resistance, $R_A$ : N/A ( $\Omega$ )								
Main Switch or Circuit-Breaker				Type: BS(EN) BS EN 60947-2 MCCB		Voltage rating 415 V		Protective Bonding Conductors	
* (applicable only where an RCD is suitable and is used as a main circuit-breaker)				Rated current, $I_n$ 630 A		Earthing conductor		Main protective bonding conductors	
Type: BS(EN)	3	Supply conductors material Copper		RCD operating current, $I_{\Delta n}$ * N/A mA		Conductor material Copper		Bonding of extraneous-conductive-parts (✓)	
No of Poles	3	Supply conductors material Copper		RCD operating time (at $I_{\Delta n}$ )* N/A ms		Conductor csa 120 mm <sup>2</sup>		Water service <input checked="" type="checkbox"/>	
Supply conductors csa	240	Supply conductors csa 240		RCD operating time (at $I_{\Delta n}$ )* N/A ms		Conductor csa 70 mm <sup>2</sup>		Oil service <input type="checkbox"/>	
						Continuity check <input checked="" type="checkbox"/> (✓)		Gas Service <input checked="" type="checkbox"/>	
						Continuity check <input checked="" type="checkbox"/> (✓)		Structural steel <input checked="" type="checkbox"/>	
								Lightning protection <input checked="" type="checkbox"/>	
								Other incoming service(s) N/A	

### COMMENTS ON EXISTING INSTALLATION

In the case of an alteration or additions see Section 633

Note: Enter 'NONE' or, where appropriate, the page number(s) of additional page(s) of comments on the existing installation.

### NEXT INSPECTION

§ Enter interval in terms of years, months or weeks, as appropriate

I/We the designer(s), RECOMMEND that this installation is further inspected and tested after an interval of not more than

Five Years

† Where the Approved Contractor responsible for the construction of the electrical installation has also been responsible for the design and the inspection and testing of that installation, the 'Particulars of the Organisation responsible for the Electrical Installation' may be recorded only in the section entitled 'CONSTRUCTION'

✦ Where a number of sources are available to supply the installation, and where the data given for the primary source may differ from other sources, a separate sheet must be provided which identifies the relevant information relating to each additional source.

**SCHEDULE OF ITEMS INSPECTED**

† See note below

**PROTECTIVE MEASURES AGAINST ELECTRIC SHOCK**

**Basic and fault protection**

**Extra low voltage**

N/A SELV N/A PELV

**Double or reinforced insulation**

N/A Double or Reinforced Insulation

**Basic Protection**

✓ Insulation of live parts ✓ Barriers or enclosures  
N/A Obstacles \*\* N/A Placing out of reach \*\*

**Fault protection**

**Automatic disconnection of supply**

✓ Presence of earthing conductor  
✓ Presence of circuit protective conductors  
✓ Presence of main protective bonding conductors  
N/A Presence of earthing arrangements for combined protective and functional purposes  
N/A Presence of adequate arrangements for alternative source(s), where applicable  
N/A FELV  
✓ Choice and setting of protective and monitoring devices (for fault protection and/or overcurrent protection)

**Non-conducting location \*\***

N/A Absence of protective conductors

**Earth-free equipotential bonding\*\***

N/A Presence of earth-free equipotential bonding

**Electrical separation**

N/A For one item of current using equipment  
N/A For more than one item of current using equipment\*\*

**Additional protection**

N/A Presence of residual current device(s)  
✓ Presence of supplementary bonding conductors

\*\* for use in controlled supervised/conditions only

**Prevention of mutual detrimental influence**

✓ Proximity of non-electrical services and other influences  
✓ Segregation of Band I and Band II circuits or Band II insulation used  
✓ Segregation of safety Circuits

**Identification**

✓ Presence of diagrams, instructions, circuit charts and similar information  
✓ Presence of danger notices and other warning notices  
✓ Labelling of protective devices, switches and terminals  
✓ identification of conductors

**Cables and Conductors**

✓ Selection of conductors for current carrying capacity and voltage drop  
✓ Erection methods  
✓ Routing of cables in prescribed zones  
✓ Cables incorporating earthed armour or sheath or run in an earthed wiring system, or otherwise protected against nails, screws and the like  
N/A Additional protection by 30mA RCD for cables concealed in walls (where required, in premises not under the supervision of skilled or instructed persons)  
✓ Connection of conductors  
✓ Presence of fire barriers, suitable seals and protection against thermal effects

**General**

✓ Presence and correct location of appropriate devices for isolation and switching  
✓ Adequacy of access to switchgear and other equipment  
N/A Particular protective measures for special installations and locations  
✓ Connection of single-pole devices for protection or switching in line conductors only  
✓ Correct connection of accessories and equipment  
N/A Presence of undervoltage protective devices  
✓ Selection of equipment and protective measures appropriate to external influences  
✓ Selection of appropriate functional switching devices

**SCHEDULE OF ITEMS TESTED**

† See note below

✓ External earth fault loop impedance,  $Z_E$   
N/A Installation earth electrode resistance,  $R_A$   
✓ Continuity of protective conductors  
✓ Continuity of ring final circuit conductors  
✓ Insulation resistance between live conductors  
✓ Insulation resistance between live conductors and Earth  
N/A Protection by separation of circuits

N/A Basic protection by barrier or enclosure provided during erection  
N/A Insulation of non-conducting floors or walls  
✓ Polarity  
✓ Earth fault loop impedance,  $Z_s$   
✓ Verification of phase sequence  
N/A Operation of residual current devices  
✓ Functional testing of assemblies  
✓ Verification of voltage drop

**SCHEDULE OF ADDITIONAL RECORDS\* (See attached schedule)**

Page No(s)

Note: Additional page(s) must be identified by the Electrical Installation Certificate serial number and page number(s).

† All boxes must be completed. '✓' indicates that an inspection or a test was carried out and that the result was **satisfactory**. 'N/A' indicates that an inspection or a test was **not applicable** to the particular installation

\* Where the electrical works to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such system), this electrical safety certificate should be accompanied by the particular certificate(s) for the system(s).

This form is based on the model shown in Appendix 6 of BS7671 (as amended).  
Published by the NICEIC a part of the Ascertain Group © Copyright The Electrical Safety Council (Jan 2008)



