



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 07ATEX7168** Issue: **2**

4 Equipment: **Oil Filled Transformer Rectifier**

5 Applicant: **BAC Corrosion Control Limited**

6 Address: **Stafford Park 11
Telford
Shropshire
TF3 3AY**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

IEC 60079-0:2004

IEC 60079-6:2007

IEC 60079-1:2004

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 G

Ex od IIB T3 (T_{amb} 55 °C)

Project Number 51M14546

C Ellaby
Deputy Certification Manager

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 07ATEX7168
Issue 2

13 DESCRIPTION OF EQUIPMENT

The equipment two enclosures comprises:

- A 'sealed' 'Ex o' enclosure, housing a power transformer and rectifier assembly. The enclosure is manufactured from mild steel and has a hinged, lockable top cover. The enclosure is filled with transformer oil to IEC 60296 such that all the electrical components are submerged. A pressure relief device is fitted and set at 10 mbar. Fluid drain and level facilities are provided.
- An 'Ex d' connection and electronics enclosure. The enclosure comprises an enclosure, as TRL Certificate 03ATEX11030X, fitted with monitoring and connection facilities. Condition monitoring is via a glass viewing window. Cabling into the enclosure is by means of suitably certified and dimensioned cable entry devices.

The two enclosures are connected by means of flexible conduits, sealed by means of stopping boxes as Sira 00ATEX1073X.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	25 September 2007	R51M14546A	The release of the prime certificate.
1	7 January 2008	R51M14546B	Report number R51M14546A was replaced by report number R51M14546B.
2	22 June 2011	R51M14546C	Report number R51M14546B was replaced by report number R51M14546C.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 Each 'Ex o' enclosure shall be subjected to the following pressure tests, as required by clause 5.2.1 of IEC 60079-6:2007.

- An overpressure test at 15 mbar bar for at least of 60 s.
- A reduced pressure test at 11.9 mbar for at least 24 h.

The enclosure shall meet the pass criteria of clauses 5.1.1 and 5.1.2 of IEC 60079-6:2006.

17.4 An electric strength of 1860 V ($2U + 1000V$), shall be applied between phase conductors and between phase conductors and earth for at least 60s, as required by clause 34.2.1 of IEC 60079-15:2006.

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Certificate Annexe

Certificate Number: Sira 07ATEX7168
Equipment: Oil Filled Transformer Rectifier
Applicant: BAC Corrosion Control Limited



Issues 0, 1 and 2

Drawing no:	Sheets	Rev.	Date	Description
CR16978-401	1 of 1	1	05 Sep 07	Transformer rectifier certification details
W00032-PR-19-G29-0054	1 of 1	01	09 Jul 07	Label details

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