



1. **TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. Type Examination Certificate Number: **ITS14ATEX18025X**

4. Equipment or Protective System: **Movable Arm Grounding System (MAGS)**

5. Manufacturer: **Lightning Master Corporation**

6. Address: **1770 Calumet St.; Clearwater, FL 33765, USA**

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

8. Intertek Testing and Certification Limited certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive 94/9/EC of 23 March 1994

The examination and test results are recorded in confidential Intertek Report 101150717DAL-001 dated May 7, 2014.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 13463-1:2009, EN 13463-5:2011, and EN 1127-1:2011 except in respect of those requirements referred to at item 16 of the Schedule.

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

11. This Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:

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Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977
<http://www.intertek.com>

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.



P Moss
Certification Officer
23 July 2014

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SCHEDULE

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13. Description of Equipment or Protective System

The MAGS bonding system provides electrical bonding between the floating roof and the tank shell of a floating roof storage tank. By-pass conductors are intended to supplement, not replace, shunts. The primary functional component is the main conductor running from the top rim of the tank shell to the perimeter of the floating roof, providing a good electrical bond. Secondary components are designed to keep the primary conductor from becoming fouled on various tank appurtenances, including hatches, legs, etc. They include the mast system with its base plate to attach to the floating roof, rim bracket to attach to the tank shell rim, and bonding jumpers to maintain metallic components at the same potential to prevent arcing. The bonding cable strung between the floating roof and tank shell is protected via the polymeric telescoping mast and a flexible polymeric conduit.

14. Report Number:

Intertek Report 101150717DAL-001 dated May 7, 2014.

15. CONDITIONS OF CERTIFICATION:

(a). Special Conditions for safe use

15.1 The maximum surface temperature depends not on the equipment itself, but on operating conditions. The relevant information is given in the instructions for use. The equipment's maximum ambient temperature is +40°C.

15.2 In order to protect against ignition due to equipotential difference of energy, the equipment should only be attached between parts which are already bonded together.

(b). Conditions For Use (Routine Tests)

No Routine Testing required.

16. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report 101150717DAL-001 dated May 7, 2014.

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17. Drawings and Documents

Number	Title	Issue	Date
MAGS ASSEMBLY	LIGHTNING MASTER MAGS ASSEMBLY	1	2014-04-10
BASE PLATE – 304 S.S.	LM-MAGS	1	2014-04-10
TELESCOPING MAST	LM-TELESCOPING MAST	1	2014-04-10
ARTICULATING CONDUIT	LM-MAGS-COMP-AC	1	2014-04-10
RIM BRACKET – 304 S.S.	LM-MAGS-COMP-RB	1	2014-04-10
THERMAL PRINT DECAL	LM-DECAL	1	2014-04-10
MAGS INSTALLATION INSTRUCTIONS	MOVABLE ARM GROUNDING SYSTEM (MAGS) INSTALLATION INSTRUCTIONS	1	2014-04-10

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

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