



DET NORSKE VERITAS

TYPE EXAMINATION CERTIFICATE

[2] **EQUIPMENT OR PROTECTED SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC**

[3] Type Examination Certificate Number: **DNV 09 ATEX 66123** **Rev. 01**

[4] Equipment: **“SPITFIRE” Industrial Monitor**

[5] Applicant – Manufacturer or Authorized representative: **Elkhart Brass Mfg. Co. Inc.**

[6] Address: **1302 West Beardsley Ave.
Elkhart, Indiana USA 46514**

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

[8] DNV certifies that this equipment has been found to comply with the Essential Health and Safety requirements that relate to the design of Category 3 equipment, which is intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no.: **2009-3654**

[9] Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:
EN 60079-0: 2006, EN 60079-15: 2005, EN13463-1:2001 and EN13463-5:2003

[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 TYPE EXAMINATION CERTIFICATE relates only to the design, examinations and tests of the specified equipment. If applicable, further requirements of this Directive may apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

[12] The marking of the equipment shall include the following:

 **II 3 G c T3**

Høvik, 2010-02-10
for Det Norske Veritas Certification AS

Marianne Spæren
Certification Manager ZNWNO416



Ståle Sandstad
Technical Reviewer

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



[13]

Schedule

[14] TYPE EXAMINATION CERTIFICATE No.: DNV 09 ATEX 661233

Rev. 01

Certificate History

Revision	Description	Issue date
	Original certificate	2010-01-13
01	Was -HGXX Nozzle, Now - HLXX Nozzle, Corrected formatting error	2010-02-10

[15] Description of Equipment:

The equipment is an electrically Operated "SPITFIRE" Industrial Monitor with a 4"-150# flat face ANSI flanged base. The Monitor is primarily used to extinguish fires by remotely directing and controlling fire extinguishing fluids. It is constructed of brass and stainless steel and powered by two 120-VAC, single phase, brushless synchronous reversing motors which produce constant torque and current input during starting, running and when stalled. The Brass Electrical Operated Industrial Select-O-Matic Remote controlled Nozzle has a third synchronous reversing motor to control the liquid volume and dispersion pattern. The complete system is controlled by an IP66 Monitor Motor Control Box that interfaces with the Monitor via an ATEX approved IP 66 Junction Box Assembly.

Type Identification:

839405 "SPITFIRE" Industrial Monitor assemblies consisting of:
839405X Monitor Ex nA II T4
(X's denote variations in features) SM-XXXXBE-HLXX Nozzle Ex nA II T4
(X's denote variations in features) 81471XXX Monitor Control Box Ex nA nC II T4
81493001 Junction Box Ex e II T6

Electrical Data: 120/240V, 440V, 50/60Hz

Degrees of protection: IP66

[16] **Report No:** 2009-3654

Project No: PRJC-172952-2009-PRC-USA

Descriptive documents

Number	Title	Rev.	Date
ATEX MONITOR	Technical File	2	2009-12-11
8394053	GA, "SPITFIRE" Industrial Monitor	REL	2008-01-07
30211029	Electrical Schematic, "SPITFIRE" Industrial Monitor	C	2009-12-17
44546000	ATEX marking label, "SPITFIRE" Industrial Monitor	REL	2006-03-01
81471030	GA, Monitor Motor Control Box	D	2009-12-17
30211029	Electrical Schematic, Monitor Motor Control Box	C	2009-12-17
MMCB-01	ATEX marking label, Monitor Motor Control Box		2009-09-03
SM-2000-HLGM	Select-O-Matic Nozzle (Typical drawing)	REL	2006-12-21

[17] **Special conditions for safe use:** None

[18] **Essential Health and Safety Requirements**

See part 10 of this certificate

END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.