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www.tssa.org

December 15, 2011

CYNTHIA FORMANIUK
ALBERTA BOILERS SAFETY ASSOCIATION
9410-20 AVENUE
EDMONTON AB T6N 0A4
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 605230
Your Reference No.: 2011-01513

Dear CYNTHIA FORMANIUK,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission on May 26, 2011 has been reviewed and registered as follows:

CRN No.: 0F04145.25R5
Reference No.: 2011-01513
Main Design No.: CHANGE OF COMPANY NAME + RENEWL LIQUID LEVEL
DETECTION SENSORS
Expiry Date: 12-Apr-2021

For scope of registration, see attachment(s) to Statutory Declaration.

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

A stamped copy of the approved registration and invoice for engineering services will be mailed to you shortly. Should you have any questions or require further assistance, however, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

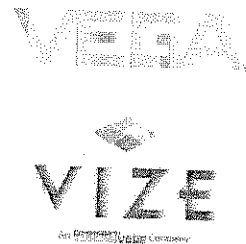
Yours truly,

Kaivan Kia P. Eng.
Mechanical Engineer, BPV
Tel. : 416-734-3457
Fax : 416-231-6183
Email : kkia@tssa.org



the pressure equipment safety authority

STATUTORY DECLARATION
Registration of Fittings



I, Lee Dallman
Technical Services Director
(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)
of VEGA Americas Inc.
(name of manufacturer)

located at 4241 Allendorf Drive, Cincinnati, Ohio 45209 USA
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- comply with the requirements of ASME Sec VIII.Div 1, UG-101(p)(1) which specifies the dimensions, (title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, Lloyd's Register Quality Assur as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are VEGAPULS, FLEX, VIB, WAVE, SWING

In support of this application, the following information, calculations and/or test data are attached:

DECLARED before me at <u>VEGA Americas Inc.</u> in the <u>State</u>	Technical Standards and Safety Authority of <u>Ohio</u>	Boilers and Pressure Vessel Safety Program
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this 24th day of February, 2011 (Month) (Year)

(print) Mary Kay Swadener
(Signature) Mary Kay Swadener
(A Commissioner for Oaths)

[Signature]
REGISTERED
(Signature of Applicant) OF 04145-25R5
Signed: [Signature]

MARY KAY SWADENER
Notary Public
In and for the State of Ohio
My Commission Expires 3-4-15



For Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category F

Registration Number: OF04145-25R5

Date Registered: Dec 15/11

ONTARIO Date: Dec 15/11
(For the Administrator/Chief Inspector of Alberta)
Expiry Date: Apr 12/21 ON W

See 5 pages of attachment for scope & P/T ratings. lck 12/15/11

Looking Forward

VEGA

VEGA Americas, Inc. 1.800.FOR.LEVEL
4241 Allendorf Drive Tel: 513.272.0131
Cincinnati, Ohio 45209 Fax: 513.272.0133
USA americas@vega.com
www.vega-americas.com

April 12, 2011

Alberta Boilers Safety Association
9410 – 20 Avenue
Edmonton, Alberta T6N 0A4
Canada

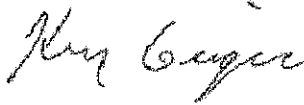
To Whom It May Concern:

The following fittings:

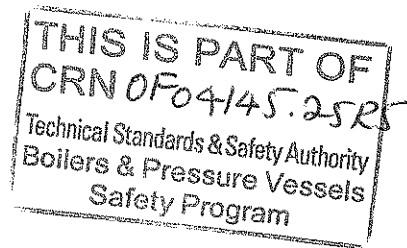
VEGAPULS 62, 66, 68
VEGAFLEX 61, 62, 65, 66, 67
VEGAVIB 61, 62, 63
VEGAWAVE 61, 62, 63
VEGASWING 61, 63

Are fabricated, inspected and tested following the same methods as those used per the original registration.

Sincerely,



Ken Geiger
Certification Project Coordinator





AMENDMENT

Reference No. UQA 0107563

This Amendment is effective as of March 25, 2011 to the Contract between Ohmart-Vega Corporation ("Client") and Lloyd's Register Quality Assurance, Inc. ("LRQA") dated May 15, 2008.

Recitals and Agreement

Company Name Change / New Company Name = VEGA Americas, Inc.

No additional changes are being made to your contract at this time.

Current Standard: ISO 9001:2008

THIS IS PART OF
CRN 0F041 45.25RS
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

For the CLIENT

For LRQA

Signed		
Name	Gretchen R. Lisi	David Crouser
Title	Quality Manager	Treasurer
Date	March 25, 2011	3-25-11

THIS IS PART OF
CRN OF 04145.2SR

Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program



FM Approvals
1151 Boston-Providence Turnpike
P.O. Box 9102 Norwood, MA 02062 USA
T: 781 762 4300 F: 781 762 9375 www.fmglobal.com

August 23, 2005

Mr. Ken Geiger
Ohmart/VEGA Corp.
4241 Allendorf Drive
Cincinnati, OH 45209

0 F 4 1 4 5 . 2

Subject: Over-pressure testing of Ohmart/Vega Corp. PULS 62, 66 and 68 Sensor Probes,
FM Approvals Project IDs 3020985 and 3021523.

Dear Mr. Geiger:

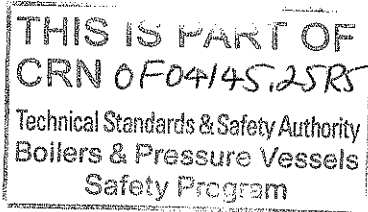
As you requested in your December 8, 2004 email, herein are the over-pressure test results for your PULS 62, 66 and 68 Sensor Probes. The over-pressure tests were conducted on the PULS 62, 66 and 68 Sensor Probes listed below to determine compliance of their maximum working pressure (MWP) rating as part of the FM Approvals requirements. The sensor probe portions of the PULS 62, 66 and 68 Sensor Probes that connect to the process were tested to determine if they could withstand a required safety factor over the maximum working pressure rating. With the exception of the PULS 66 Sensor Probe (flanged Ceramic version), all the sensor probes identified below withstood 3 times the maximum working pressure rating for one minute duration with no burst, nor visible evidence that the test fluid penetrated into the electrical housing compartment of the samples. The PULS 66 Sensor Probe (flanged Ceramic version) withstood 2.5 times the maximum working pressure rating, plus 1000 psi, for one minute duration with no burst, nor visible evidence that the test fluid penetrated into the electrical housing compartment of the samples. Testing of these sensor probes was considered to be satisfactory as part of the FM Approvals requirements.

<u>Sensor Probe Sample</u>	<u>MWP Rating</u>	<u>Test Pressure</u>
PULS 62 Sensor Probe (flanged version)	580 psi	1740 psi ***
PULS 66 Sensor Probe (threaded Teflon version)	580 psi	1740 psi ***
PULS 66 Sensor Probe (flanged Ceramic version) *	6960 psi (480 bar)	18,400 psi (1270 bar)
PULS 68 Sensor Probe (flanged version) **	580 psi	1740 psi ***

* The PULS 66 Sensor Probe (flanged Ceramic version) is similar in design to Ohmart/VEGA Corporation's PULS 50 High-Pressure Waveguide. Testing on the PULS 50 High-Pressure Waveguide is therefore considered applicable for the PULS 66 Sensor Probe (flanged Ceramic version).

** The construction of the PULS 68 Sensor Probe is the same as the PULS 62 Sensor Probe. Testing of the PULS 62 Sensor Probe was therefore considered to be applicable for the PULS 68 Sensor Probe.

*** A review of ASME, Section VIII, Division 1, UG-101(p)(1) indicates that the above test results comply as there was no visible excessive deformation on the test samples as a result of the 3 times test pressure.



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August 31, 2006

Mr. Jason Kuzmiak
 Ohmart/VEGA Corporation
 4241 Allendorf Drive
 Cincinnati, OH 45209

Customer ID: 1000000896

Subject: Over-pressure testing of the VegaVib, VegaSwing and VegaSon Transmitter Sensors, FM Approvals Project ID 3027080, Final Report

Dear Mr. Kuzmiak:

As you requested in your March 24, 2006 email, herein are the over-pressure test results for your VegaVib 61, 65, 66, VegaSwing 61, 63, and VegaSon 61 Transmitter Sensors. The over-pressure tests were conducted on the transmitter sensors listed below to determine compliance of their maximum working pressure (MWP) rating as part of the FM Approvals requirements.

The sensor probe portions of the VegaVib 61, 65, 66, VegaSwing 61, 63, and VegaSon 61 Sensors Probes that connect to the process were tested to determine if they could withstand a required safety factor over the maximum working pressure rating. All sensor probes identified below withstood 3 times the maximum working pressure rating for one minute duration with no burst, nor visible evidence that the test fluid penetrated into the electrical housing compartment of the samples. Testing of these sensor probes was considered to be satisfactory as part of the FM Approvals requirements.

Sensor Probe Sample	MWP Rating	Test Pressure
VegaSWING61 (P/N SWING61.XXNBVXNRX with 3/4" NPT)	928psi	2784psi
VegaSWING63 (P/N SWING63.XXYYYXNRX-6 with Flange)	928psi	2784psi
VegaVIB61 (P/N VB61.XXANGRKNX with 1 1/2" NPT)	232psi	696psi
VegaVIB65 (P/N VB65.XXTNDRKNX with 1 1/2" NPT)	232psi	696psi
VegaVIB66 (VB66.XXTNDRKNX with 1 1/2" NPT)	87psi	262psi
VegaSON61 (SN61.XXANHKXNX with 1 1/2" Plastic NPT)	29psi	87psi

THIS IS PART OF
 CRN OF 04/45. 2585
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program



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The sensor probe portions of the VegaVib 61, 65, 66, VegaSwing 61, 63, and VegaSon 61 Sensors Probes that connect to the process were tested to determine if they could withstand a required safety factor over the maximum working pressure rating. All sensor probes identified below withstood 3 times the maximum working pressure rating for one minute duration with no burst, nor visible evidence that the test fluid penetrated into the electrical housing compartment of the samples. Testing of these sensor probes was considered to be satisfactory as part of the FM Approvals requirements.

Sensor Probe Sample	MWP Rating	Test Pressure
VegaSWING61 (P/N SWING61.XXNBVXNRX with 3/4" NPT)	928psi	2784psi
VegaSWING63 (P/N SWING63.XXYYYYXNRX-6 with Flange)	928psi	2784psi
VegaVIB61 (P/N VB61.XXANGRKNX with 1 1/2" NPT)	232psi	696psi
VegaVIB65 (P/N VB65.XXTNDRKNX with 1 1/2" NPT)	232psi	696psi
VegaVIB66 (VB66.XXTNDRKNX with 1 1/2" NPT)	87psi	262psi
VegaSON61 (SN61.XXANHKX with 1 1/2" Plastic NPT)	29psi	87psi