O'neill, Christopher (DEC)

From: O'neill, Christopher (DEC)
Sent: Friday, October 26, 2018 9:26 AM
To: jsmith@troybelting.com; Tom Johnson; Andrew Millspaugh
Cc: Amanda.Castignetti@SterlingEnvironmental.com; RLeistensnider@nixonpeabody.com; Rod Aldrich; 'David Barcomb (dbarcomb@troybelting.com)'; Mustico, Richard X (DEC); Repsher, Stephen J (DEC); Karpinski, Steven (HEALTH); Deming, Justin H (HEALTH)
Subject: FW: Troy Belting Site No. C401067; Vapor Mitigation System Proposed Automated Monitoring (STERLING File #2011-31)
Attachments: 2018-10-19 NYSDEC VMS Automated Monitoring.pdf

NYSDEC and NYSDOH have reviewed the attached (dated 10-19-2018) proposed procedures and instrumentation for automating the monitoring program for the Vapor Mitigation System (VMS) in the on-site building at the Troy Belting and Supply Company Brownfields site (site #C401067).

NYSDEC/NYSDOH hereby approve of the provided automated VMS monitoring proposal and associated proposed revisions to the VMS Operations, Monitoring and Maintenance Plan.

Please proceed in accordance with the attached proposal, keeping NYSDEC (primarily me as the NYSDEC Project Manager) notified of the progress, specifically with a three-working days notification before the installation and start-up of the automated monitoring system.

I can be reached at 518-357-2394 if there are any questions.

Chris O'Neill
NYSDEC – Schenectady
518-357-2394

From: Beverly Commerford [mailto:beverly.commerford@sterlingenvironmental.com]
Sent: Friday, October 19, 2018 11:43 AM
To: O'neill, Christopher (DEC) <christopher.oneill@dec.ny.gov>
Cc: jsmith@troybelting.com; Tom Johnson <johnsont@sterlingenvironmental.com>; Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>; Rod Aldrich <rod.aldrich@sterlingenvironmental.com>; Amanda.Castignetti@SterlingEnvironmental.com; RLeistensnider@nixonpeabody.com
Subject: Troy Belting Site No. C401067; Vapor Mitigation System Proposed Automated Monitoring (STERLING File #2011-31)

Dear Mr. O'Neill,

Please find the attached letter and confirm receipt.

Best regards,
Beverly

Beverly A. Commerford
Operations Manager
Sterling Environmental Engineering, P.C.

24 Wade Road
Latham, New York 12110
Telephone: (518) 456-4900
Fax: (518) 456-3532
beverly.commerford@sterlingenvironmental.com
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Sterling Environmental Engineering, P.C.

October 19, 2018

Mr. Christopher O'Neill, P.E.
NYSDEC Region 4
Office of Environmental Quality
1130 North Westcott Road
Schenectady, New York 12306-2014

Subject: Vapor Mitigation System Proposed Automated Monitoring
Troy Belting and Supply Company, Colonie, New York, BCP Site No. C401067
STERLING File # 2011-31

Dear Mr. O'Neill:

In response to your September 25, 2018 email, Sterling Environmental Engineering, P.C. (STERLING) submits the following comprehensive summary to modify the vapor mitigation system (VMS) operation, maintenance, and monitoring procedures to include automated electronic instrumentation as a replacement to daily manual recordkeeping.

Overview:

The automated electronic system consists of two vacuum sensors and one central control unit with datalogging telemetry capabilities for remote data viewing and download. The sensors will be installed on the VMS pipe at the eastern and western extraction points adjacent to the existing manometers. The sensors communicate wirelessly to a central datalogger. The datalogger has telemetry capabilities for remote data viewing and download through a secure website. Product information sheets are attached.

Following NYSDEC approval, the automated monitoring equipment will be ordered and installed. We anticipate the monitoring equipment installation may occur during the VMS planned six week shutdown period. Manual daily monitoring would not resume when the VMS is restarted in November 2018 unless the monitoring system is not setup and verified to be functioning properly at that time. Each sensor will be programmed to collect one vacuum reading every four hours such that six readings are recorded at each extraction location per day. The datalogging system will be setup with a low vacuum alarm to send a notification by email and text message if the vacuum recorded by either sensor falls below the required level in the Operations, Monitoring, and Maintenance (OM&M) Plan.

Implementation:

The proposed monitoring equipment is readily available from the product vendor. Once ordered and received, installation and setup is anticipated to take approximately two days. The sensors will be mounted to the VMS pipe directly adjacent to the existing manometers. This configuration allows for system verification through comparison to manual readings during quarterly physical inspections, or as needed by Troy Belting personnel between scheduled inspections. Once installed and confirmed to be operating correctly, the startup verification phase will commence. During this phase, STERLING personnel will remotely review system data at least once per day for the first two weeks after installation.

If the system is verified to be operating correctly throughout the startup phase, regular OM&M will resume, as detailed in a revised OM&M Plan.

OM&M Plan Revisions:

The current VMS OM&M Plan will be revised to incorporate procedures associated with the automated monitoring system. Revisions will include the following:

- Product documentation for the automated sensors and datalogger will be added as an appendix for future reference.
- Instructions will be included describing how to remotely access, review, and download sensor data.
- Response actions will be described for low vacuum alarm notifications.
- STERLING will download operating data weekly and review the data for irregularities that indicate maintenance or repairs may be needed. Daily and weekly physical inspections will no longer be needed. Physical inspections will be performed quarterly.
- Daily manual inspection procedures and forms will be retained in the OM&M Plan as a contingency measure for planned or unplanned shutdown of the automated system.

Weekly download and review of the system operating data will be sufficient to determine whether there are operating issues that may necessitate immediate physical inspection of the VMS. Troy Belting personnel are familiar with the system operation and are available to perform immediate inspection, if necessary. Troy Belting personnel also will be responsible to notify STERLING of any alarms, damage, or other issues requiring maintenance or repair.

Schedule:

The following table represents the anticipated timeline to implement the automated monitoring system and resume regular OM&M. Revisions to the OM&M Plan will be completed prior to the end of the startup verification phase.

Task	Duration
Order Monitoring System	1 day
Shipping and Delivery	10 days
Installation	1 day
Setup and Troubleshooting	1 day
Total Duration to Resume OM&M	**13 days ***

* - A 14-day system verification period will be performed following system setup and troubleshooting.

We request approval of the work described herein as soon as possible so revisions to the OM&M Plan and installation of the monitoring equipment can be completed before the scheduled restart of the system in November. Please contact me with any additional questions regarding this approach.

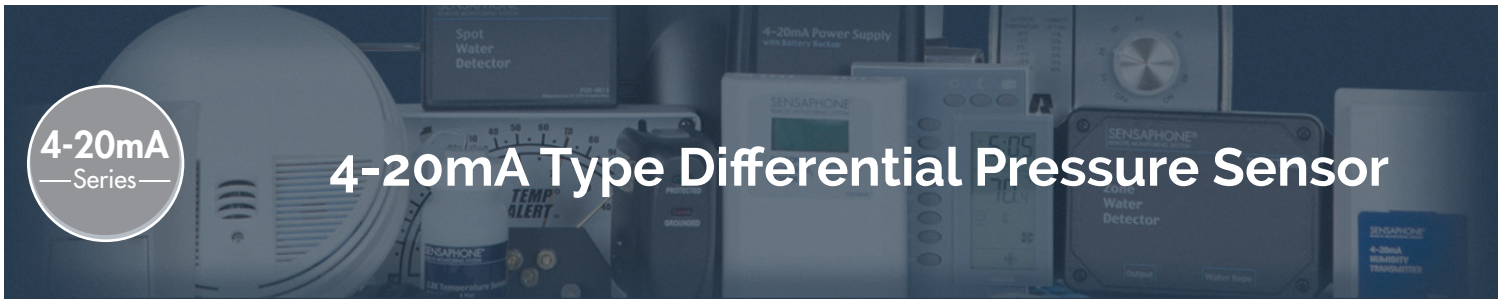
Very truly yours,
STERLING ENVIRONMENTAL ENGINEERING, P.C.

Andrew M. Millspaugh, P.E.
Senior Environmental Engineer
Andrew.Millspaugh@sterlingenvironmental.com

AMM/am
Email
Attachments: Product Information Sheets

cc: Ruth Leistensnider, Esq.
Jason Smith

S:\Sterling\Projects\2011 Projects\Troy Belting and Supply Co - 2011-31\Correspondence\2018\2018-10-19 NYSDEC VMS Automated Monitoring.docx



4-20mA Type Differential Pressure Sensor

Measure static or differential pressure

A universal design monitors differential or static pressures in commercial buildings, these sensors offer exceptional job-site flexibility. Excellent tolerance to overpressure & vibration reduces field failures. High accuracy digital sensor maintains calibration and reduces callbacks. The sensors monitor positive and negative pressure for application versatility and the LCD is ideal for set-up, troubleshooting and measuring.

TECH SPECS

Media Compatibility	Dry air or inert gas
Input Power	2-wire, loop-powered 4 to 20 mA
Mode	Unidirectional or bidirectional, switch selectable
Pressure Ranges	Uni Directional: 0.1/0.25/0.5/1.0/2.5/5/10” W.C. 25 Pa/50 Pa/100 Pa/250 Pa/0.5 kPa/1 kPa/2.5 kPa F.S. switch selectable Bi Directional: ±0.1/0.25/0.5/1.0/2.5/5/10” W.C. 25 Pa/50 Pa/100 Pa/250 Pa/0.5 kPa/1 kPa/2.5 kPa F.S. switch selectable
Dimensions	3.3” x 4.5” x 2.2” | 84mm x 114mm x 55mm
Sensor Series	4-20mA Series
Notes	Requires a 24VDC power supply (FGD-0070)

All specifications subject to change without notice

Product Name	Part Number
4-20mA Differential Pressure Sensor	FGD-0302
24VDC Power Supply for 4-20mA Sensors	FGD-0070

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We've got a sensor for that

Sensaphone has a sensor for monitoring everything from climate conditions to security and more.

Your business is our business

With over 350,000 systems installed worldwide, we've put Sensaphone to the test in just about every application imaginable.

Suggested Applications

Industrial & Manufacturing
Know that the temperature, humidity, or other conditions in your shop or factory are okay while you're away.

Data Center
Use your WSG30 to monitor temperature, power failure and other conditions that are critical in many data center applications.

Vaccine & Medical Storage
Don't wait until the morning to find out your freezer has stopped running. The WSG30 will e–mail as soon as the temperature rises above a temperature you set.

Sensaphone WSG30

Features and Specifications

Powerful Wireless Sensors
Accept thirty different wireless sensors from distances of up to 300' away (or farther if there is a line of site or are other sensors in between). A list of popular sensors and accessories is below.

WSG —Wireless—

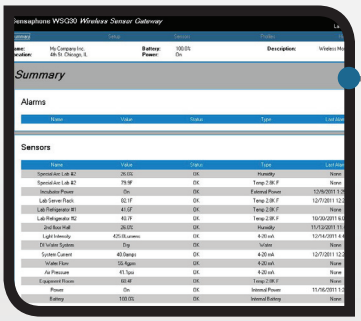
Battery Backup
Rest easy knowing that even if the power goes out, the WSG30 will keep monitoring.

LCD Display
For a quick local check of the sensor's status.

Keypad
Use to scroll through the LCD display.

Power
Comes with a plug in power supply that also monitors for power failures.

Ethernet
Receive an e–mail or text message when an alarm has been detected. Or check the status on the WSG30's web page.



Web Services
Program, adjust and monitor the status of the sensors on a webpage the WSG30 creates.

Industrial Automation
Communicate with an existing automation system using the Modbus protocol.

Compatible Sensors & Accessories

Temperature Sensor **FGD-WSG30-TMP**

Temperature Sensor w/ External Probe..... **FGD-WSG30-TEX**

Ultra Low Temperature Sensor w/ External Probe..... **FGD-WSG30-TEX85**

WSG Wireless Humidity Sensor **FGD-WSG30-HUM**

Dry Contact Interface..... **FGD-WSG30-DRY**

Power Failure Sensor..... **FGD-WSG30-PWR**

4-20mA Interface..... **FGD-WSG30-4-20**

Spot Water Detection Sensor..... **FGD-WSG30-SPOT**

Zone Water Detection Sensor **FGD-WSG30-ZONE**

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