Dickson, Laura

From: Dickson, Laura

Sent: Wednesday, November 2, 2022 7:43 AM

To: Juarez, Allie M.

Subject: RE: [EXTERNAL] Harmon Creek (PA-63-01011) - Leaks and OGI

Hi Allie,

Thank you for this information!

Best Regards,

Laura

From: Juarez, Allie M. <AJuarez@marathonpetroleum.com>

Sent: Tuesday, November 1, 2022 3:12 PM **To:** Dickson, Laura < Idickson@pa.gov>

Subject: RE: [EXTERNAL] Harmon Creek (PA-63-01011) - Leaks and OGI

Hi Laura,

The OGI monitoring is conducted using a FLIR GF320 or GFx320. The OOOOa compliance certification for those models is attached.

Thanks, Allie

From: Dickson, Laura < ldickson@pa.gov>
Sent: Tuesday, November 1, 2022 1:34 PM

To: Juarez, Allie M. <AJuarez@marathonpetroleum.com>

Subject: [EXTERNAL] Harmon Creek (PA-63-01011) - Leaks and OGI

Hi Allie,

As we talked about this morning, it was observed that the detection level proposed for quarterly OGI monitoring (specific to compressors and connectors) is 10,000 ppm. Upon further analysis, I do have an update regarding it. I have provided a screenshot that I pulled from GP-5 conditions which provides the definition of a leak. Per the definition, 500 ppm pertains to Method 21. When utilizing OGI methods, it must meet the highlighted portion of the definition below. Does MarkWest propose to calibrate the OGI camera according to 40 CFR § 60.18 and a detection sensitivity level of 60 grams/hour?

Leak – A leak is defined as any release of gaseous hydrocarbons that is detected (AVO) inspection; an optical gas imaging (OGI) camera calibrated according to 4 sensitivity level of 60 grams/hour; a gas leak detector that meets the requirements of Method 21 that detects a concentration of 500 ppm calibrated as methane or greate approved by the Department's Division of Source Testing and Monitoring. However, component designed by the manufacturer to protect the equipment, controller, or per contamination, gas migration, or an emergency situation is not considered a leak.

Thank you!

Laura S. Dickson, P.E. | Environmental Engineer *She/her/hers* Pennsylvania Department of Environmental Protection Southwest Regional Office 400 Waterfront Drive | Pittsburgh, PA 15222 Phone: 412.442.4155 www.depweb.state.pa.us

DEP is now accepting permit and authorization applications, as well as other documents and correspondence, electronically through the OnBase Electronic Forms Upload tool. Please use the link below to view the webpage, get instructions, and submit documents:

https://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx



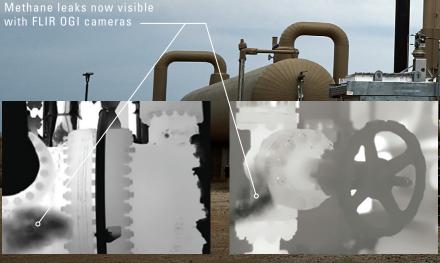
EPA 0000a CERTIFIED

INDEPENDENT TESTING DEEMS FLIR CAMERAS COMPLIANT

FLIR is proud to announce its GF620, GFx320, GF320, GF300, and G300a cameras have been independently tested and deemed compliant with the EPA's NSPS 40 CFR part 60, subpart OOOOa sensitivity standard for optical gas imaging equipment.

Testing was performed by the National Physical Laboratory (NPL), which confirmed the FLIR GF620, GFx320, GF320, GF300, and G300a optical gas imaging cameras are capable of imaging a gas that is half methane/half propane at a concentration of 10,000 ppm at a flow rate of ≤60g/hr from a quarter inch diameter orifice.

Note: GFx320, GF320, GF300, and G300a cameras have identical detectors, hydrocarbon filters, optical platforms, and HSM algorithms. **The GF620 has a higher resolution detector**.





Calibration Requirements

Gas Detection: No Calibration Required

The GF620, GFx320, GF320, GF300, and G300a camera's ability to detect gases is not influenced by any calibration process and will not degrade over time.

Gas Compound Detection

The GF620, GFx320, GF320, GF300, and G300a optical gas imaging cameras are capable of imaging a wide array of gas compounds, but were specifically designed to see the following hydrocarbons:

Methane Ethylene Octane Benzene Heptane Pentane Propane Hexane Propylene Butane Isoprene Toluene Ethane **MEK Xylene** Ethanol Methanol 1-Pentene Ethylbenzene **MIBK**

Questions And User Manuals

To download the latest GF Manual or address questions to the FLIR Gas Detection team, please go to our FLIR Customer Support Portal: http://flir.custhelp.com

Gas Detection Training

Learn about ITC training courses for gas detection and OOOOa program development: www.infraredtraining.com

Visit our blog for the latest updates in FLIR Gas Detection: www.flir.com/FLIRNews

To See All Optical Gas Imaging Cameras Offered By FLIR Visit:

www.flir.com/ogi