

Exhibit No. 201

Staff Exhibit #201

From: [Johnson, Alexis](#)
Sent: Tuesday, August 23, 2022 2:42 PM
To: [Osborn, Charmion](#)
Subject: RE: Cyril Wrabec

Follow Up Flag: Follow up
Flag Status: Flagged

Good afternoon,

I requested clarification from the Large Volume Meters department and was advised the following:

“The 95.60% is not an accuracy measure. It is a percentage of the actual flow during the test as a percentage of the max flow for the meter. Meaning the test was conducted at 95.6% of the rated meter capacity. The differential test is performed at 3 different points to test the meter at different operating capacities of the meter. In this case, the meter was tested at 95.6%, 70%, and 48.93% of the meter capacity. This is done to evaluate the meter at a range of operational conditions measured as a % of the capacity of the meter.

This meter is a rotary meter., which uses machined rotors that open and close as they spin. Because they are machined surfaces that do not expand or contract, the volume that passes with each rotation cannot change. Only 3 factors can impact accuracy, debris in the rotors, damage to the rotors, or the bearings that drive the rotation deteriorate. All three of these conditions would show up as excessive difference in pressure drop during a differential test. The test results show that none of these conditions exist, which means that the meter is operating normally and by extension accurately because the volume passed during rotation does not physically change.”

This is the same meter installed on 10/22/21.

Thank you!

Alexis Johnson
Community Service Partner

800 Market Street
St. Louis, MO 63101
800.887.4173 Office
314.250.4613 Mobile

SpireEnergy.com.



From: Osborn, Charmion <Charmion.Osborn@psc.mo.gov>
Sent: Monday, August 22, 2022 1:20 PM
To: Johnson, Alexis <Alexis.Johnson@spireenergy.com>
Subject: Cyril Wrabec

 External email

Good afternoon Alexis,

According to the meter test results, if I'm looking at them correctly, the meter tested at 95.60%?

Also, is this the meter that was installed on 10/22/2021, or has this meter been replaced?

Thanks,

Charm Osborn
Lead Customer Service Representative
Missouri Public Service Commission
573-526-4572



Meter Information (with Mechanical Module)

| | | |
|---|----------------------|---|
| Meter Size | RMT1500 | <input checked="" type="radio"/> Mechanical Counter Module <input type="radio"/> Electronic Counter Module |
| Badge Serial Number | | |
| ROMET Serial Number | | |
| Customer Name | | |
| Installation Site | | |
| Field Data | | |
| Atmospheric Pressure [PSIA] | 14.46 | PSIA |
| Gas Line Gauge Pressure [PSIG] | 2.00 | PSIG |
| Differential Pressure [inWC] | 0.800 | inWC (60°F) |
| Gas Specific Gravity | 0.600 | |
| Uncorrected Flow Rate [Ft3/H] | 1434.00 | Capture Flow Rate |
| Index Reading at Starting | | |
| Calculation Results | | |
| Uncorrected Flow Rate [Ft3/H] | 1434.00 | ΔP Acceptance Result |
| Percentage of Max. Flow Rate (Recommended 15% to 100%) | 95.60 | PASS - ΔP is within limit. |
| Max. Allowable (ΔP) [inWC] | 0.952 | |
| Comments | | |
| Tested By | | <input type="button" value="Calculate"/> <input type="button" value="Report"/> <input type="button" value="Close"/> |
| Date And Time | Aug-15-2022 13:20:05 | |



Meter Information (with Mechanical Module)

| | | |
|---|----------------------|---|
| Meter Size | RMT1500 | <input checked="" type="radio"/> Mechanical Counter Module <input type="radio"/> Electronic Counter Module |
| Badge Serial Number | | |
| ROMET Serial Number | | |
| Customer Name | | |
| Installation Site | | |
| Field Data | | |
| Atmospheric Pressure [PSIA] | 14.46 | PSIA |
| Gas Line Gauge Pressure [PSIG] | 2.00 | PSIG |
| Differential Pressure [inWC] | 0.500 | inWC (60°F) |
| Gas Specific Gravity | 0.600 | |
| Uncorrected Flow Rate [Ft3/H] | 1050.00 | Capture Flow Rate |
| Index Reading at Starting | | |
| Calculation Results | | |
| Uncorrected Flow Rate [Ft3/H] | 1050.00 | ΔP Acceptance Result |
| Percentage of Max. Flow Rate (Recommended 15% to 100%) | 70.00 | PASS - ΔP is within limit. |
| Max. Allowable (ΔP) [inWC] | 0.569 | |
| Comments | | |
| Tested By | | <input type="button" value="Calculate"/> <input type="button" value="Report"/> <input type="button" value="Close"/> |
| Date And Time | Aug-15-2022 13:22:35 | |



Meter Information (with Mechanical Module)

| | | |
|---------------------|---------|---|
| Meter Size | RMT1500 | <input checked="" type="radio"/> Mechanical Counter Module <input type="radio"/> Electronic Counter Module |
| Badge Serial Number | | |
| ROMET Serial Number | | |
| Customer Name | | |
| Installation Site | | |

Field Data

| | | |
|--------------------------------|--------------|-------------------|
| Atmospheric Pressure [PSIA] | 14.46 | PSIA |
| Gas Line Gauge Pressure [PSIG] | 2.00 | PSIG |
| Differential Pressure [inWC] | 0.300 | inWC (60°F) |
| Gas Specific Gravity | 0.600 | |
| Uncorrected Flow Rate [Ft3/H] | 734.00 | Capture Flow Rate |
| Index Reading at Starting | | |

Calculation Results

| | | |
|---|----------------------|---|
| Uncorrected Flow Rate [Ft3/H] | 734.00 | ΔP Acceptance Result PASS - ΔP is within limit. |
| Percentage of Max. Flow Rate (Recommended 15% to 100%) | 48.93 | |
| Max. Allowable (ΔP) [inWC] | 0.341 | |
| Comments | | |
| Tested By | | <input type="button" value="Calculate"/> <input type="button" value="Report"/> <input type="button" value="Close"/> |
| Date And Time | Aug-15-2022 13:23:37 | |