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O&M Section # 3	SCUD Task #650
Section: Measurement	Revision Date: 09/06/16

### Odorization – Periodic Sampling

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#### **SCOPE AND PURPOSE**

This procedure is to ensure that the gas in the pipeline is readily detectable by a person with a normal sense of smell. It describes odorization sampling practices required to comply with §192.625.

#### **RESPONSIBILITY**

The Measurement Supervisor, or other designee, is responsible to ensure that Odorization sampling is performed as described in this procedure.

#### **PERSONNEL SAFETY (Where Applicable)**

- Do not perform odorization sampling if lightning is present.
- During use, odorization sampling equipment should be kept away from open flames.
- Do not exceed manufacturer’s recommended maximum inlet supply pressure.

#### **EQUIPMENT AND MATERIALS**

- Odorant detection equipment
- Necessary tools for connection to a gas stream
- Leak Detector Equipment
- Other equipment and materials as needed

#### **OPERATOR QUALIFICATION**

This activity is a covered task under the SCUD Operator Qualification Plan and may only be performed by or directed and observed by an individual who is currently qualified to perform periodic odorization sampling. Refer to the OQ Plan for specific qualification requirements.

#### **INSTRUCTIONS**

##### **Maintenance and Operating Instructions**

Each instrument used for periodic odorization sampling shall be operated and maintained in accordance with the manufacturer’s recommended operating instructions.

##### **Calibration of Instruments**

Each instrument used for periodic odorization sampling shall be calibrated in accordance with the manufacturer’s recommended calibration instructions.

##### **Odorization Sampling using Odorant Detection Equipment**

- When possible, odorization sampling should be performed in an odor and draft free environment.
- Odorization sampling must be performed by a person with a normal sense of smell.
- Connect the instrument to the gas supply.
  - **Do not exceed the manufacturer’s maximum recommended inlet supply pressure.**
- Obtain reading according to the manufacturer’s instructions.
- The odorant shall be readily detectable at 1/5<sup>th</sup> the lower explosive limit (LEL) – if the odorant is not readily detectable at 1/5<sup>th</sup> LEL steps shall be taken in accordance with the operations and maintenance manual and the Measurement Supervisor shall be notified.

## Operations and Maintenance Procedures

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#### **REPORTING/NOTIFICATION**

Complete documentation in accordance with Operation and Maintenance Manual.

#### **ABNORMAL OPERATING CONDITIONS**

<b>AOC Main Category</b> (Examples of Specific AOCs)	<b>Reactions to AOC, as appropriate</b>	
<p><b><i>Unplanned escape of product from a pipeline</i></b></p> <ul style="list-style-type: none"> <li>• Blowing/Escaping gas/Grade I leak</li> </ul>	<ul style="list-style-type: none"> <li>➤ Protect life &amp; Property</li> <li>➤ Prevent accidental ignition</li> <li>➤ Notify appropriate personnel</li> <li>➤ Notify Fire/Emergency Responders</li> <li>➤ Initiate Emergency Plan</li> </ul>	<ul style="list-style-type: none"> <li>➤ Locate source/cause of AOC</li> <li>➤ Use appropriate PPE</li> <li>➤ Stop gas flow</li> <li>➤ Make repairs/eliminate AOC</li> </ul>
<p><b><i>Unplanned Status Change</i></b></p> <ul style="list-style-type: none"> <li>• Inoperable/Failure of a Pipeline Component</li> <li>• Stray Current on a Pipeline – Electric Shock</li> </ul>	<ul style="list-style-type: none"> <li>➤ Protect life &amp; property</li> <li>➤ Notify appropriate personnel</li> <li>➤ Initiate Emergency Plan as Needed</li> </ul>	<ul style="list-style-type: none"> <li>➤ Locate source/cause of AOC</li> <li>➤ Make repairs/eliminate AOC</li> </ul>
<p><b><i>Inadequate Odorization or Reports of Gas Odor</i></b></p> <ul style="list-style-type: none"> <li>• Low odorization</li> <li>• Over odorization</li> <li>• Odor complaint</li> </ul>	<ul style="list-style-type: none"> <li>➤ Protect life &amp; property</li> <li>➤ Prevent accidental ignition</li> <li>➤ Notify appropriate personnel</li> </ul>	<ul style="list-style-type: none"> <li>➤ Locate source/cause of AOC</li> <li>➤ Make repairs/eliminate AOC</li> </ul>

#### **RELATED PROCEDURES**

MEAS001 - Odorization - Odorizer Inspection, Testing, Preventive and Corrective Maintenance