OQ Procedure 1211 - Odorization – Periodic Sampling

STF1-6

COPE AND PURPOSE

ESPONSIBILITY

ERSONNEL SAFETY (Where Applicable)

QUIPMENT AND MATERIALS

PERATOR QUALIFICATION

NSTRUCTIONS

EPORTING/NOTIFICATION

ELATED PROCEDURES

BNORMAL OPERATING CONDITIONS

COPE AND PURPOSE

his procedure is to ensure that the gas in the *pipeline* is readily detectible by a person with a normal sense of smell. It describ dorization sampling practices required to comply with §192.625.

ESPONSIBILITY

ity of Moultrie's designee is responsible to ensure that Odorization sampling is performed as described in this procedure.

ERSONNEL 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.

QUIPMENT AND MATERIALS

lecessary equipment and materials to perform the task, such as, but not limited to:

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

PERATOR QUALIFICATION

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

NSTRUCTIONS

laintenance and Operating Instructions

ach instrument used for periodic odorization sampling *shall* be operated and maintained in accordance with the manufacturer's ecommended operating instructions.

alibration of Instruments

alibration instructions.

)dorization Sampling using Odorant Sampling 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
- During the performance of this procedure, the amount of natural gas released shall be minimized.
- Obtain reading according to the manufacturer's instructions.
- The lower explosive limit (L.E.L) of natural gas is 5%. The odorant shall be readily detectable at 1/5th L.E.L – if the odorant is not readily detectable at 1/5th L.E.L (1%) steps shall be taken in accordance with the operations and maintenance manual.

)dorization Sampling using Sniff Test (Master Meter Operators)

- Obtain written verification from gas supplier that the gas has the proper concentration of odorant; and
- Conduct periodic "sniff" tests at the extremities of the system to confirm that the gas contains adequate odorant.
  - Must be performed by a person with a normal sense of smell.
  - Release a small amount of gas in a controlled manner for a short duration (the amount of natural gas released shall be minimized)
  - Determine whether odorant is detectable.
  - If the odorant is not readily detectable, notify the gas supplier.

tEPORTING/NOTIFICATION

:omplete documentation in accordance with Operation and Maintenance Manual.

tELATED PROCEDURES

)perations & Maintenance Manual Section 13-Z - Prevention of Accidental Ignition (§192.751)

05	Precautions in Excavated Trenches
06	Continuing Surveillance

\BNORMAL OPERATING CONDITIONS

AOC Main Category & Examples of Specific AOCs	Reactions to AOC, as appropriate	
Unplanned escape of product from a pipeline • Blowing/Escaping gas/Grade I leak	• Protect life & Property • Prevent accidental ignition • Notify appropriate personnel • Notify Fire/Emergency Responders • Initiate Emergency Plan	• Locate source/cause of AOC • Use appropriate PPE • Stop gas flow • Make repairs/eliminate AOC
Unplanned Status Change • Inoperable/failure of a pipeline component • Stray current on a pipeline - Electric Shock	• Protect life & property • Notify appropriate personnel • Initiate Emergency Plan as needed	• Locate source/cause of AOC • Make repairs/eliminate AOC
Inadequate Odorization or Reports of Gas Odor • Low odorization • Over odorization • Odor complaint	• Protect life & property • Prevent accidental ignition • Notify appropriate personnel	• Locate source/cause of AOC • Make repairs/eliminate AOC

12-U Odorization of Gas [192.625]

a) All gas contained in the City of Moultrie gas system *will* be odorized so that at a concentration in air of one-fifth of the lowe explosive limit, the gas is readily detectable by a person with a normal sense of smell.

b) *[Reserved]*

c) City of Moultrie will assure the proper concentration of odorant in accordance with this Section by conducting quarterly, not exceed 120 days, or more frequent sampling of combustible gases using an instrument capable of determining the percentage of gas in air at which the odor becomes readily detectable.

d) City of Moultrie will designate odorization test points at the extremities of its system.

e) If testing indicates that the odorant concentration is not correct, City of Moultrie will take immediate steps to remedy the situation by investigating the cause of the incorrect odorant concentration and, if deemed necessary, do one of the following:

   (1) Adjust the odorization rate,

   (2) Have City of Moultrie's gas supplier adjust the odorization rate, or

   (3) Add or remove temporary or permanent odorization points.

f) Related information:

   (1) Appendix U-1 – Odorization Test Point Locations

   (2) Appendix U-2 – Odorization Testing Sample Documentation

g) Reference procedures: #1211, 1221