Procedure Number: **70.10.30**
Title: **Mobile Leak Survey Procedures**

1.0 Purpose

The purpose of this procedure is to provide the guidelines and steps for conducting mobile leak survey. A mobile leak survey is a leak survey performed using a motorized vehicle using externally mounted sensing equipment.

2.0 Scope

This procedure is applicable to locations where a vehicle can be used to perform surveys. This procedure covers UGI or contractor employees assigned to the job who will be responsible for performing the mobile leak survey in accordance with these procedures. The Supervisor or Leak Survey Coordinator will be responsible for assigning this task to qualified individuals.

3.0 Gas Detection Equipment

See GOM 70.10.20 "Leak Investigation and Survey Equipment" for listing of approved instruments and specific operating instructions.

4.0 Other Equipment

In addition to the gas detection instrument, the mobile leak survey operators should inventory and carry the following equipment, particularly for investigating leaks

4.1 Personal Protection Equipment – Including but not limited to hard hat, traffic safety vest, safety-toed footwear, safety glasses and work gloves as required. (See UGI Utilities Safety & Health Manual 500.90).

4.2 Approved Class I, Division 1 Flashlight

4.3 Screwdriver

4.4 Communication device in vehicle

4.5 Maps/Service Record Cards

4.6 Mobile Data Terminal (MDT)

5.0 General Practices

FI, DP-IR and OMD mobile surveys are most effective when driving over the facility and nearby openings in the street. A general rule of thumb is that it may be used when the unit can be driven over or laterally within 5 feet of the facility being surveyed. The surveyor will determine when mobile survey is acceptable to be used.

Revision Number	Date Approved	Approved By	Effective Date
002	02/12/2018	Mark Connors	04/23/2018

7.4 Optical Methane Detector (OMD) - The calibration of the OMD must be verified at the beginning of each workday to insure the instrument is functioning properly. The internal check cell should be used on a daily basis to verify that the functionality is remaining consistent. If the value of the internal check cell should vary significantly (± 5 PPM) from previous readings, your OMD might need to be calibrated. On a weekly basis, and at any time the operator suspects the instrument's calibration has changed, use an external calibration cell to verify calibration.

8.0 Driving Practices

8.1 Locate the line to be inspected using maps/records or electronic means.

8.2 Scope and alarms set on 10 ppm or equivalent

8.3 Conduct leak survey of the gas main and service portions

8.4 Driving speeds (maximum)

8.4.1 For normal Mobile surveys - up to 5 mph for FI, DP-IR, and up to 25 mph for OMD

8.4.2 For winter patrol/frost surveys up to15 mph for FI, DP-IR, and up to 25 mph for OMD.

8.5 If conditions prevent an effective mobile survey, perform a Walking Survey of mains in accordance with GOM 70.10.40 "Walking Leak Survey Procedures".

9.0 Leak Indication Procedures

9.1 If leaks are found, on UGI facilities, they must be investigated and classified in accordance with:

9.1.1 EP 3.1 "Gas Leak Investigation"

9.1.2 GOM 70.20.20 "Leak Classification – Natural Gas"

9.1.3 GOM 70.20.30 "Leak Classification – Propane"

9.2 If the leak is an open, outstanding leak, complete the re-inspection of the leak by re-investigating the leak area, classifying the leak and recording gas readings in MapFrame.

9.3 If leaks are found, on customer facilities, follow GOM 35.10.40 Tagging Procedures.