



## Electronic Gas Measurement Guidelines

Peoples Natural Gas will permit electronic gas measurement to be used on producer operated meters based on the following criteria:

### **Equipment**

Peoples Natural Gas ("Peoples") has approved the following electronics correctors for use on rotary production meters:

- Mercury Mini-Max AT PT
- Eagle Electronic

The corrector shall be programmed to display eight digit volume readings in Mcf. All electronic correctors must have a mechanical index to record uncorrected volumes. The mechanical uncorrected reading must match the electronic uncorrected reading at installation. These readings must track each other throughout the life of the corrector.

Producers are required to have electronic correctors calibrated annually. This accuracy verification/calibration should be documented and forwarded to Peoples. Peoples is required to be present at time of electronic measurement installation to ensure of proper item file setup.

### **Peoples Random Audits**

Peoples will conduct electronic corrector random audits without notification to the producer. Peoples will not connect to the Electronic Corrector with a laptop. All audit data will be accessed through the local screen display on the corrector. The corrector will be programmed to display the following:

- PO Number
- Pressure
- Temperature
- Corrected Volume (Mcf)
- Uncorrected Volume (Mcf)
- Battery Voltage
- Time
- Date
- Meter Index Rate

**Audit Trail and Item File**

The Producer is required to have downloading capabilities to retrieve an item trail and audit trail to forward to the integrator to record the monthly production. An electronic file is acceptable.

The audit trail must consist of hourly reads for the corrected volumes, uncorrected volumes, active temperature and pressure.

The item file must show the settings for all of the fixed variables on the unit. Please refer to Attachment A.

**Producer Record Retention**

The producer is required to download the volumetric history logs (Audit Trail) and the corrector settings (Item File) for all electronic correctors and retain this information based on the scheduled below. Annual Meter/Corrector accuracy verification records are also required.

- |  |         |
|--|---------|
| • Volume History (Audit Trail)             | 2 Years |
| • Corrector Settings (Item File)           | 2 Years |
| • Annual Accuracy Verification/Calibration | 3 Years |
| • Volume Statement from Integrator         | 2 Years |

Peoples may, at any time during normal business hours, audit and examine any records, audit trails or accounts as well as the meter facilities of Producer. Failure to maintain this information may result in Peoples terminating gas receipts at the meter in question.

**Penalties**

If the Producer does not provide the appropriate documents within the requested timeframe, the measurement facility that is being audited will be shut in immediately and remain shut in until the Producer supplies Peoples with the required documents.

If Peoples find the item file has been altered from the original state, without Peoples' approval, Producer will be found in violation and will be subject to be shut-in.

Attachment A

## Item File Parameters

| <u>Description</u>      | <u>Value</u>   | <u>Identification</u>        |
|-------------------------|----------------|------------------------------|
| Corrected Volume        | 12345678       | Site Specific                |
| Uncorrected Volume      | 12345678       | Site Specific                |
| Gas Pressure            | XXX.XX         | Site Specific                |
| Base Pressure           | 14.73          | Fixed Value - All Correctors |
| Atmospheric Pressure    | 14.4           | Fixed Value - All Correctors |
| Gas Temperature         | XX.XX          | Site Specific                |
| Base Temperature        | 60             | Fixed Value - All Correctors |
| Total Correction Factor | X.XXX          | Site Specific                |
| Specific Gravity For Sp | 0.6            | Fixed Value - All Correctors |
| % N2 For Supercompress  | .5             | Fixed Value - All Correctors |
| % CO2 For Supercompress | .5             | Fixed Value - All Correctors |
| Pressure Units          | PSIG           | Fixed Value - All Correctors |
| Temperature Units       | F              | Fixed Value - All Correctors |
| Corr Volume Units       | MCF            | Fixed Value - All Correctors |
| Uncorr Volume Units     | MCF            | Fixed Value - All Correctors |
| Corr Vol Display Res    | 8 Digits       | Fixed Value - All Correctors |
| Uncorr Vol Display Res  | 8 Digits       | Fixed Value - All Correctors |
| Meter Index Rate        | 10/100/1000 CF | Meter Specific               |
| Fixed Pressure Factor   | Live           | Fixed Value - All Correctors |
| Fixed Super Factor      | Live           | Fixed Value - All Correctors |
| Fixed Temp Factor       | Live           | Fixed Value - All Correctors |
| Site ID Number          | XXXXXX         | PO number                    |
| Site ID Number Part 2   | XXXXXX         | Site Specific                |
| Log Interval            | 60 Minutes     | Fixed Value - All Correctors |
| Time                    | 15 38 52       | Site Specific                |
| Date                    | 8/28/2008      | Site Specific                |
| Start Time              | 08 00 00       | Fixed Value - All Correctors |