Gas/Electric System Interaction Workshop
PSE Building, Summit Room
Bellevue, Washington
March 28, 2014

Agenda Items

8:30 am Coffee, tea, fruit and bagels
9:00 am Commence meeting

1. Introduction – Alan (15 minutes)
    - Parking validation
    - Restrooms
    - Where to congregate in the event of an emergency
    - Agenda
        - Workshop – interruptions are encouraged
        - Share experiences, photos and samples
2. Background – Duane (15 minutes)
    - Why meet?
        - Pinehurst Settlement
    - Meeting objectives
    - Sharing information
3. Case history – Pinehurst – Michelle (45 minutes)

10:15 am Break (15 minutes)

4. Electrical Ground Fault Basics/Electrical Grounding System – Mark (45 minutes)
    - How electrical energy gets on the gas system
        - Direct contact
        - In-direct contact
        - House grounding
5. Under Ground Cable Faults – Chris (30 minutes)
    - How cables fail
        - Breakdown of insulation between conductor and neutral
        - Corroded bare concentric neutrals
        - Vintages of cable subject to failures

11:30 pm lunch (45 minutes)

6. Recognizing damage caused by a ground fault – Alan (30 minutes)
    - Photos and examples
    - Characteristics of Electrical Arcing Damage
        - Arc burns at meter spuds
        - Meter Set/Fuel Line interaction
        - Tracer wire and PE pipe
        - Burn through of buried steel pipe
7. Leak Surveys – Michelle (30 minutes)
    - Determining Leak Survey Boundaries
        - Source of energy
            - substations
            - Lightning
            - Transmission
            - Distribution

        - Pipe material affected
            - Steel
            - Plastic
        - Other utilities
            - Are lights out
            - Cable TV problems
            - Water leaks
    - Timeframe for completing survey
    - Facilities to be surveyed
        - Overlay gas maps with electric maps
            - Black Diamond (4 Corners) event

1:15 pm break (15 minutes)

8. Coordination with Electric Utility – Open discussion (30 minutes)
    - Electric Utility Contact Numbers
    - Questions to ask of Electric Utility
        - Circuit involved
        - Substation feeding the circuit
        - Location of the source substation
        - Type of grounding system
9. Use of Integrity Surveys – Open discussion (30 minutes)
    - During the event
        - Find shorted insulators at meters and system boundaries
        - Blown fuses at rectifiers
        - Damaged bond cables
    - Post event
        - Locate coating damage (ACVG/DCVG)
        - Find damaged tracer wire
10. Job aid – Open discussion (30 minutes)
    - Develop a job aid based on experiences of those present

3:00 pm
Adjourn meeting