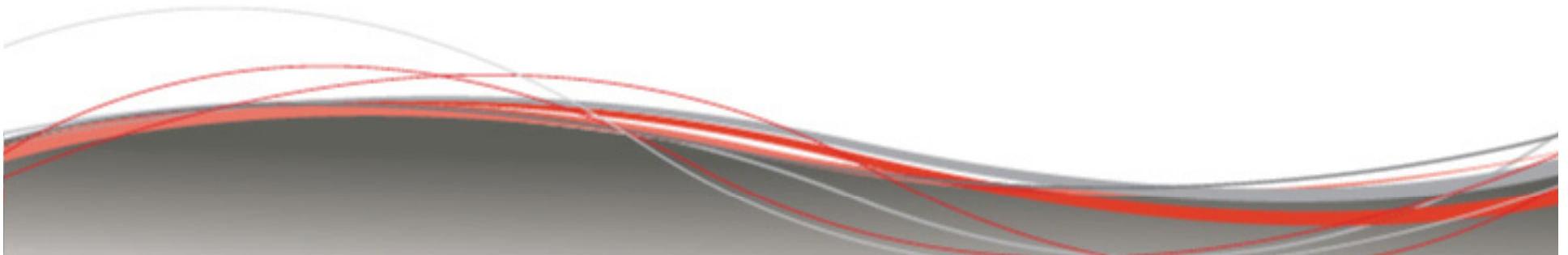




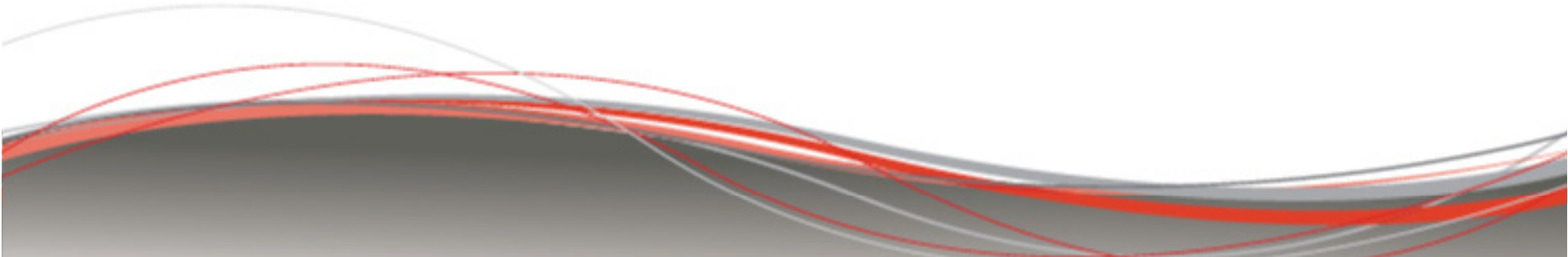
# Sewer Line Crossbore Program

**Dan Woehrle**  
**Manager, Gas System Engineering**  
**March 16, 2011**





# Agenda

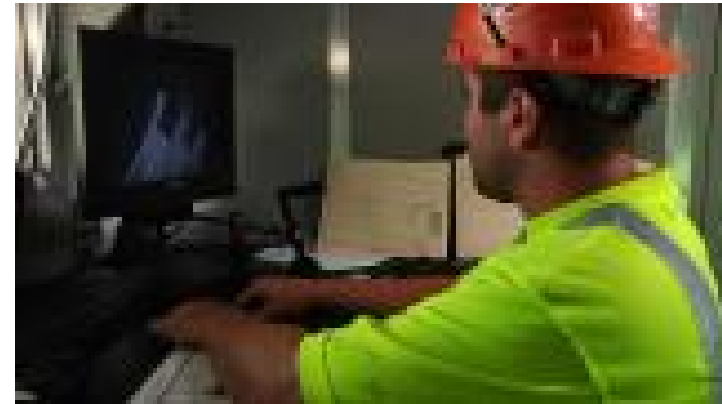
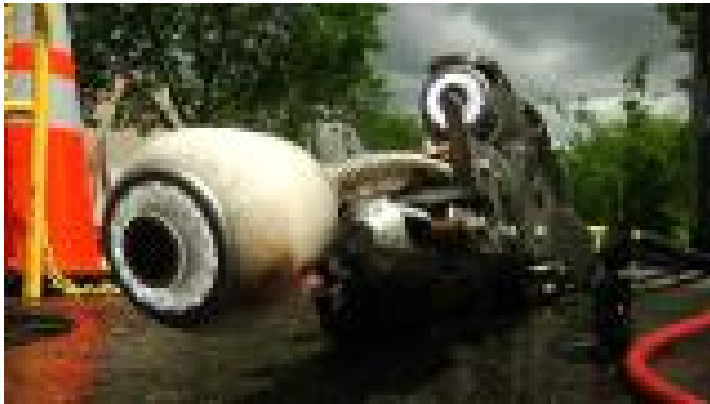
- **Legacy System Program**
  - **Public and Contractor Awareness Program**
  - **Emergency Call-in Process**
  - **Review and Update Construction Practices**
- 

# Legacy System program

In 2010 -

- **Maps and record review**
- **Camera Inspections**
  - ◆ **High Priority Areas (schools, churches, hospitals, nursing homes) in Minnesota, North Dakota, Wisconsin, Michigan**
  - ◆ **Areas of prior known conflicts**
  - ◆ **St. Paul and South Saint Paul areas**

# Legacy System Inspection





# Legacy System Program

**In 2010 –**

- **21,000 premises inspected**
  - **350 miles of main**
  - **56 conflicts identified**
- 

# Public/Contractor Awareness

- **Increase awareness of the hazards associated with gas/sewer conflicts**
  - **Plumbing and sewer cleaning contractors**
  - **Equipment rental companies**
  - **Customers**
- **Safety DVD**
- **Bill inserts, advertisements, news media, online**
- **“Call Before You Clear”**



**Call**  
**before you clear.**

**Know what's inside.**

## Emergency Call-in Process

- Ask all customers/plumbers to call for scope before they clear sewer
- Camera contractors on standby to go to any location in our service territory
- No cost to customer or plumber
- Over 700 calls received



# Review/Update Construction Practices

- Reviewed pre-2010 construction procedures for trenchless technology
- Future practices
  - Use open trench methods where feasible
  - Validate sewers are clear using camera inspection when trenchless technology is used

# Summary

- **Natural gas system is safe unless disturbed**
- **Prevention through expanded communications, updated construction practices**
- **Continue to investigate as requested by customers, plumbers or sewer contractors**
- **On-going legacy inspection program**



**Call**  
**before you clear.**

**Know what's inside.**