Gas Transmission Key Challenges

Walter Ferguson

Transmission Pipeline Safety Incidents 2002-2005

- Fatalities (2)
  - Third Party Excavators
  - Second Party Excavators
- Injuries (19)
  - Excavators
  - Employees
- Property Loss ($345M)
  - Gas Loss (19%)
  - Operator Facilities (52%)
  - Public Property (28%)

Gas Transmission IMP Program Results

- Total INGAA Miles   204,331
- Less offshore and gathering   193,001
- Total INGAA HCA Miles   9,154 (4.7%)
- HCA Miles Inspected   2,072 (22.6%)
- Total Miles Inspected   20,382 (10.6%)
- Number of Immediate Repairs   46
  (22 Per 1,000 miles of HCA Inspected)
- Number of Scheduled Repairs   168
  (83 Per 1,000 miles of HCA Inspected)
- Forecast
  - Post Baseline - Decreasing "Rate of Defects Found"
  - Post Baseline - Changing Composition of Defects Found

Strengthen Prevention of Incidents

- **Improve Communications with Excavators**
  - Virginia example uses technology to make the job easier and avoid mistakes
  - New Mapping, Internet, Cell Phone GPS and Integrating Technologies
  - Be Present at Excavation and Track Facility Location
  - Avoid Duplicative and Unnecessary Response
- **Improve DIRT Analyses**
- **Cost Effective Surveillance & Supervision Alternatives**

Manage Enterprise Data to Drive More Efficient Decisions

- Assessments no longer in isolation
- Previous reporting much simpler
  - Report 30 day incident
  - Annual report
- Have Added
  - Semiannual IMP Reporting
  - Expected, Perceived & Required Baseline Audit Detail
  - Participate in DIRT and other CGA initiatives
- Increasing Data Integration in Assessments
- Data R&D needs to focus on
  - Avoid Duplications
  - Minimize Migration Issues

Speed Delivery of Solutions
"Be Relevant"

- Improve One Call Communications
- Improve ILI Detection, Resolution & Classification
  - Dents with Any Indication = Immediate Response
  - Most Found Benign once Excavated
  - Focus ILI on Finding Plastic Deformation
- Improve Defect Location, Sizing and Classification in Ditch
  - LRGW-UT to look inside casing under rivers
  - Laser for crack depths in colonies
- Speed Solutions which Minimize Data Migration and Duplications