



**Staff Workshop**  
**Natural Gas Pipeline Safety and Integrity Management**  
***Current Research and Future Research Needs and Opportunities***

**Thursday, July 16, 2015**  
**9:30 a.m.**

**CALIFORNIA ENERGY COMMISSION**  
First Floor, Art Rosenfeld Hearing Room, 1516 Ninth Street, Sacramento, California

**AGENDA**

Welcome and Opening Remarks	Mike Gravely, CEC
Natural Gas Pipeline Safety and Integrity Research	Avtar Bining, CEC
Risk Assessment of Natural Gas Pipelines	Arthur O'Donnell, CPUC
PHMSA Research Overview Past, Current, and Future Needs	Steve Nanney and Jim Merritt, PHMSA
Technology to Market Overview	Jason Wible, ARPA-Energy
PRCI Pipeline Integrity Research	Mike Whelan, PRCI
NYSEARCH Integrity and Safety Research	George Vradis and Daphne D'Zurko, NYSEARCH/NGA
R&D and Innovation for PG&E Gas Operations	Francois Rongere, PG&E
Gas Operations Pipeline Integrity and Safety	Ed Newton, Sempra Energy Utility

**Lunch Break**

Research and Development Overview	Ed Estanislao, Southwest Gas
GTI's Natural Gas Pipeline Safety Research	Christopher Ziolkowski, GTI
RAPID+ System for Natural Gas Pipeline Integrity Management	Howard Chung, Acellent
Low-cost Sensors for Natural Gas Pipeline Safety Monitoring	Paul Wright, UC Berkeley
<b>Panel Discussion 2:30</b>	Moderator: Mike Gravely, CEC
<b>Public Comments 3:00</b>	
<b>Closing Remarks 3:30</b>	
<b>Adjourn</b>	