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Bcc:
Subject: Welcome to the Project Advisory Committee for two natural gas pipeline projects
(GTI and UCB)

Dear Members of the Natural Gas Pipeline Projects Advisory Committee;

We would like to thank each of you for volunteering to be part of two projects funded and administered by the California Energy Commission (CEC) each with the common goal of improving natural gas pipeline safety. You will each be a member of our newly formed Joint Project Advisory Committee (PAC) as approved by our CEC Administrator – Fernando Pina. We expect all the PAC meetings to be via conference call. At this point we have not established a firm schedule, we will address the frequency, duration and goals of the PAC during our first meeting.

To help orient you to the projects and prepare for our first meeting we have provided a high level summary of each project below as well as attached a technical scope-of-work that will explain the overall objective and provide a description of the tasks for each project.

Project 1 : The Gas Technology Institute (GTI) project titled - CALIFORNIA NATURAL GAS PIPELINE ASSESSMENT Project Number 500-10-050 is scheduled to be completed by the end of the first quarter of 2013. Contact information for the GTI Project Manager and Principle Investigator is provided below. The majority of the day-to-day interaction will be through Jim Marean whose primary office is located in Binghamton, NY.

The GTI project includes:

- A review of technology to manage pipeline integrity and safety that addresses:
 - The current state of technology being used in California
 - All available technology not currently being used
 - Emerging technologies that could be developed and implemented within two to four years
- A gap analysis of the available and emerging technologies
- An implementation plan to introduce new technologies that includes recommendations and necessary actions for each new technology
- The requirement to place special emphasis on the development of a strategy to integrate the use and optimize the value of the AMI system and the performance of the pipeline monitoring and safety technologies identified or developed for implementation

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Project 2 : UC Berkeley Project titled - Natural Gas Pipeline Sensors - Project Number 500-10-044, which is also scheduled to be completed at the end of the first quarter 2013. Our goal is to develop novel sensors that would measure *in-situ* pressure, corrosion, and weld integrity of natural gas pipelines. This project will be managed on the technical side by Igor Paprotny, UC Berkeley. The contact information for the key UC Berkeley project personnel is provided below.

We have attached excerpts from our Statement of Work (SOW) to this email. In summary, the tasks of our project are:

1. To evaluate and benchmark currently available technologies for monitoring pressure, defects and corrosion in natural gas pipelines.
2. To develop next generation MEMS diagnostic sensors for pressure, defect and corrosion monitoring in gas pipelines.
3. To test prototypes of these novel sensors in the lab and in-field.

Key personnel at UC Berkeley:

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We feel we have challenging and exciting projects that will have provide a tremendous opportunity to improve pipeline safety. We look forward to working with each of you and will be in touch to schedule our first Joint PAC meeting.

Best regards,

Jim Marean and Igor Paprotny