



U.S. Department of Transportation  
Research and Special Programs  
Administration (RPSA)  
Office of Pipeline Safety (OPS)

*Pipeline Safety*

*Research and Development:*

*Broad Agency Announcement Briefing*

*April 2002*



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

# ***Purpose of Today's Briefing***

- **Provide background on RSPA/OPS**
- **Discuss the BAA criteria, format for submissions, and deadline**
- **Provide insight into the BAA review and awards process**
- **Answer questions from potential bidders**



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***RSPA's Mission***

**“To make America’s transportation systems more integrated, effective and secure by conducting and fostering cross-cutting research and special programs to enhance the quality of life, safety, the environment and the economic well-being of all Americans.”**



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

# ***RSPA***

RSPA is U.S. DOT's focal point for:

- Transportation R&D strategic planning and system assessment, and
- Coordination and facilitation of intermodal research, education and safety training.



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***RSPA/OPS Mission***

**“To ensure the safe, reliable,  
and environmentally sound  
operation of the Nation’s  
pipeline transportation  
system.”**



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

# *What RSPA/OPS Regulates*

- **Pipeline Mileage:**
  - Hazardous Liquid: 157,024 (216 operators)
  - Gas Transmission: 332,838 (887 operators)
  - Gas Distribution: 1,677,536 (1,382 operators)
- **Others Regulated:**
  - 52,000 master meter and liquefied natural gas (LNG) operators
  - Breakout tanks



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

# ***RSPA/OPS Program***

- **Regulatory Development**
- **Inspection and Enforcement**
- **State Pipeline Safety Grant Program**
- **Research and Development (R&D)**
- **Damage Prevention and Public Education**
- **Training**
- **Oil Spill Preparedness and Response**
- **Data Analysis and Trending**



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## *Recent Activities*

- **November 2001 R&D Workshop**
  - Brought together a variety of stakeholders to focus on pipeline safety R&D
  - Began development of national pipeline safety R&D agenda
  - Assembled perspectives on pipeline safety R&D gaps and priorities
  - Used results of workshop to identify focus for BAAs





U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***RSPA/OPS BAAs: Purpose***

- **BAAs Purpose: solicit R&D projects focused on the long-term integrity and security of pipelines**
- **RSPA/OPS will issue three BAAs in FY2002 for pipeline safety R&D**
  - **BAA #1: Damage Prevention and Leak Detection (issued 3/28/02)**
  - **BAA #2: Enhanced Operations, Controls, Monitoring (to be issued April/May 2002)**
  - **BAA #3: Improved Material Performance (to be issued May/June 2002)**



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***RSPA/OPS BAAs: Funding***

- RSPA/OPS anticipates spending approximately \$2,500,000 on projects awarded from these three BAAs
- No more than \$500,000 in funding is expected to be awarded to any single research project



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***RSPA/OPS BAAs: Topics***

BAAs are not limited to the example topics of interests

- Looking for innovative R&D that will improve pipeline safety in the areas of:
  - ***damage prevention and leak detection;***
  - ***enhanced operations, controls, and monitoring; and***
  - ***improved material performance.***



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

# ***BAA #1: Example Topics***

## **BAA 1: Damage Prevention/Leak Detection**

- Example topics of interest:
  - In-line inspection for damage/defects
  - Pipe location (steel and plastic)
  - Real-time sensors attached to pipelines
  - Airborne chemical mapping
  - Real time right-of-way (ROW) monitoring without contacting pipelines
  - Encroachment monitoring
  - Improved directional drilling
  - Non-destructive evaluation



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

# ***BAA Requirements***

- Cost-sharing contributions of at least 50%
- Realism of the cost estimate
- Understanding of the “state-of-the-art” in the proposed research area
- Improvement over existing technologies (effectiveness/efficiency/lower cost)
- Analysis of technical merit of the approach
- Proposed implementation timeline
- Submitter’s relevant expertise
- Feasibility and risk of the proposed work



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***BAA White Papers***

- No more than 5 pages in length (including appendices and exhibits)
- Multiple projects must be submitted separately
- Submit 10 copies of each white paper
- Do not send complete proposals at this time. Proposals will be requested after initial evaluation.



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***BAA White Paper Review Process***

- White papers will be reviewed by an expert panel (Federal/state/industry reps)
- Panel will identify projects that meet the BAA criteria and recommend projects it deems worthy of further consideration
- RSPA/OPS will contact the offerors of the white papers deemed worthy of further consideration for full proposals in June
- Offerors will have 30 days after receipt of notice to submit full proposals



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***BAA Full Proposal Process***

- **Full proposals will also be reviewed by an expert panel (Federal/state/industry representatives)**
- **RSPA/OPS will make the final decision on which projects will be funded**
- **Awards under this BAA #1 are expected to be executed in August/September 2002**





U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***Additional Information***

- BAA can be downloaded from the RSPA web site: <http://www.rspa.dot.gov> under “Procurement Opportunities”
- Summary of November 2001 workshop can be found on the RSPA/OPS Pipeline Safety R&D web site: <http://primis.rspa.dot.gov/rd/index.htm>
- FAQs from the BAA briefings will be added to the RSPA/OPS Pipeline Safety R&D web site within 48 hours



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## FAQs

- **Q:** What is considered cost sharing?
- **A:** Cost share can be cash or in-kind contributions. Cash can include materials, direct labor, or actual funding. In-kind contributions are harder to define but one example would be the use of facilities. Refer to the following web sites for more information:

[www.dot.gov/ost/m60/grant/49cfr18.htm](http://www.dot.gov/ost/m60/grant/49cfr18.htm)

[www.dot.gov/ost/m60/grant/49cfr19.htm](http://www.dot.gov/ost/m60/grant/49cfr19.htm)



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## FAQs

- **Q:** Can the cost share be from existing Federal Government research programs?
- **A:** No. You cannot use federal funding received for a different project as a cost share contribution for this project. Please refer to the websites in the previous question for more detailed information.



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## FAQs

- **Q:** Can previous work/development work be counted as cost share?
- **A:** No, but there are exceptions. Refer to the following sites for more information:  
[www.dot.gov/ost/m60/grant/49cfr18.htm](http://www.dot.gov/ost/m60/grant/49cfr18.htm)  
(especially section 18.24) and  
[www.dot.gov/ost/m60/grant/49cfr19.htm](http://www.dot.gov/ost/m60/grant/49cfr19.htm)  
(especially section 19.23). These sections pertain to grants/cooperative agreements to non-profit organizations, but the rules on what can or cannot be used as cost share contributions are the same for non-profit and "for profit" organizations.



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## FAQs

- **Q:** Will RSPA/OPS consider changing the cost share percentage, or consider white papers that request a greater cost share from the Federal Government?
- **A:** It is our intent to only fund proposals with a cost-share contribution of at least 50%.
- **Q:** Are there any partners not allowed under this BAA?
- **A:** No



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## FAQs

- **Q:** Does RSPA/OPS expect a system to be deployed in actual field applications within the project time frame or is it acceptable to complete a portion of the research that could be combined or used in future development activities?
- **A:** RSPA/OPS expects most of the projects it funds to result in project completion within 3 years. Deployment of a system in actual field applications within the time frame is not required but encouraged. RSPA/OPS expects a small number of funded projects to be longer term where results of the research could be used or combined in further development activities.



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## FAQs

- **Q:** Is the maximum length of time for a single development activity 3 years and the maximum funding for the development activity \$500,000?
- **A:** No, these are optimum lengths of time and costs per federally funded project. If a "good" project is submitted and it is expected to take longer than 3 years or cost more than \$500,000, it would not be rejected for those reasons.



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## **FAQs**

- **Q:** Will there be a limit to the number of proposals awarded to any one institution?
- **A:** No.
- **Q:** Will a formal proposal be required if a white paper is accepted?
- **A:** RSPA/OPS will notify offerors of accepted white papers and offerors will have 30 days to submit a full proposal.





U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## FAQs

- **Q:** What will be the mechanism for awarding projects under this program?
- **A:** Other Transaction Agreements (OT). OTs are partnerships between gov't and recipient with flexible terms negotiated between gov't and recipient. OTs allow commercial organizations to do business with gov't without changing existing business practices. OTs are not subject to the Federal or Transportation Acquisition Regulation (FAR and TAR), OMB Circulars or Agency regulations. OTs have been used by Defense Advanced Research Projects Agency (DARPA) and others for R&D.



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## FAQs

- **Q:** Where can I find additional information on Other Transaction Agreements?
- **A:** A sample OT containing typical OT articles (provisions) used by RSPA can be found at:  
[www.dot.gov/ost/m60/transactions/advehprg.htm](http://www.dot.gov/ost/m60/transactions/advehprg.htm)

Additional information on OTs can be found at:  
[www.dot.gov/ost/m60/transactions/otsweb3.htm](http://www.dot.gov/ost/m60/transactions/otsweb3.htm)



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***FAQs***

- **Q:** How and when are payments made under OTs?
- **A:** Payments are made at the completion (government approval) of mutually agreed upon milestones directly/explicitly related to the program goals and objectives vs. contract payment terms based on actual incurred costs and subject to strict regulations.



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## FAQs

- **Q:** Is RSPA receptive to teaming among multiple organizations in responding to this BAA?
- **A:** Yes, several issues can be addressed by teaming such as (a) need to match funding while providing R&D expertise, (b) desire to simplify the R&D management process by integrating R&D efforts in similar areas, and (c) ability to merge compatible expertise to carry out complex R&D projects



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**



Office of  
Pipeline  
Safety

## ***Contact Information***

### **Warren Osterberg, Contracting Officer**

- *email: [warren.osterberg@rspa.dot.gov](mailto:warren.osterberg@rspa.dot.gov)*
- *phone 202-366-6942, fax 202-366-7974*
- *BAA submissions:*

Mr. Warren Osterberg

DOT/RSPA, Attn: DMA-30

400 7th Street SW, Room 7104

Washington, D.C. 20590