



U.S. Department
of Transportation

**Research and
Special Programs
Administration**

Office of Pipeline Safety

Blue Ribbon Panel Meeting

**J.W. Marriott Hotel
Washington, DC
May 20th 2004**



U.S. Department
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**Research and
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Administration**

Agenda

9:00 AM	Opening Remarks <ul style="list-style-type: none">- Goals & Objectives of the Meeting- 5-Year Plan- MOU	- Jeff Wiese
9:30 AM	R&D Program to Date <ul style="list-style-type: none">- BAA Focus & Funding	-Jeff Wiese
10:00 AM	New R&D Program Structure <ul style="list-style-type: none">- OMB PART- Strategic Planning- Performance Planning- Logic Model- Management Information System	-Jim Merritt
10:30 AM	R&D Program Performance Measures	-Robert Smith
11:00 AM	Break	
11:15 AM	Open Discussion and Feedback <ul style="list-style-type: none">- Performance Measures- Technology transfer - brainstorming session	-Group
11:45 AM	Wrap-up	-Jeff Wiese
12:00 PM	Adjourn	



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Opening Remarks

First and foremost...



We value your attendance, opinion and feedback!



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**Research and
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Opening Remarks

Goals & Objectives

1. Continue our valuable collaboration and coordination through this panel
2. Update the panel on program activities since June 10, 2003
3. Illustrate a new program structure and evolution
4. Present a set of refined performance measures to evaluate R&D outcomes
5. Obtain feedback and basic consensus on validity of R&D performance measures



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Opening Remarks

Five Year R&D Program Plan

In 2003, a Five Year R&D Program Plan was jointly developed with DOT's Office of Pipeline Safety, DOE's National Energy Technology Laboratory (NETL), the DOC's National Institute of Standards and Technology (NIST) & DOI's Minerals Management Service (MMS).

Presently in Department Level and OMB Examiner Surnaming



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Opening Remarks

Memorandum of Understanding

Signed January 20th, 2004 between

DOT/RSPA/OPS, DOE/NETL and DOC/NIST

Available at

<http://primis.rspa.dot.gov/rd/mou.pdf>



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R&D Program to Date



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Activities Since Last Blue Ribbon Panel Meeting

- The GAO released final report # 03-746 on OPS R&D Program
- Held Joint Government/Industry Pipeline R&D Forum, December 2003
- Presented R&D activities at Pipeline Safety Advisory Committees, January 2004
- Attended training and consulted several Federal R&D programs on OMB PART
- Restructured R&D Program elements, goals and created performance measures
- Created an R&D Strategic & Performance Plan with a Logic Model
- Developing online Management Information System and database
- Participated at API Pipeline Conference with R&D project summary, April 2004
- Submitted R&D portion of OPS OMB PART submission with Q&A and supporting documents, April 2004

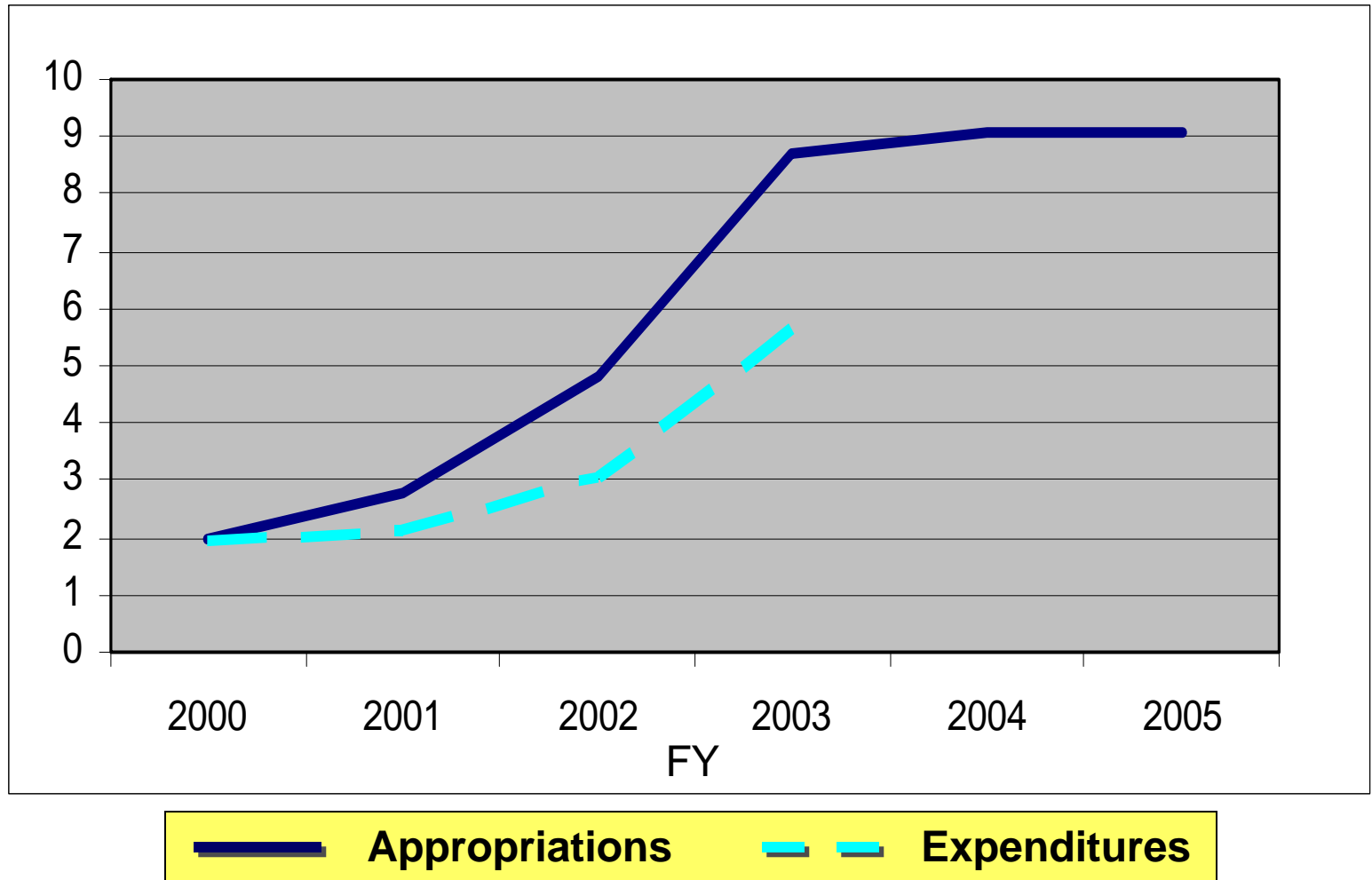


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OPS R&D Fiscal Summary

In millions
of dollars

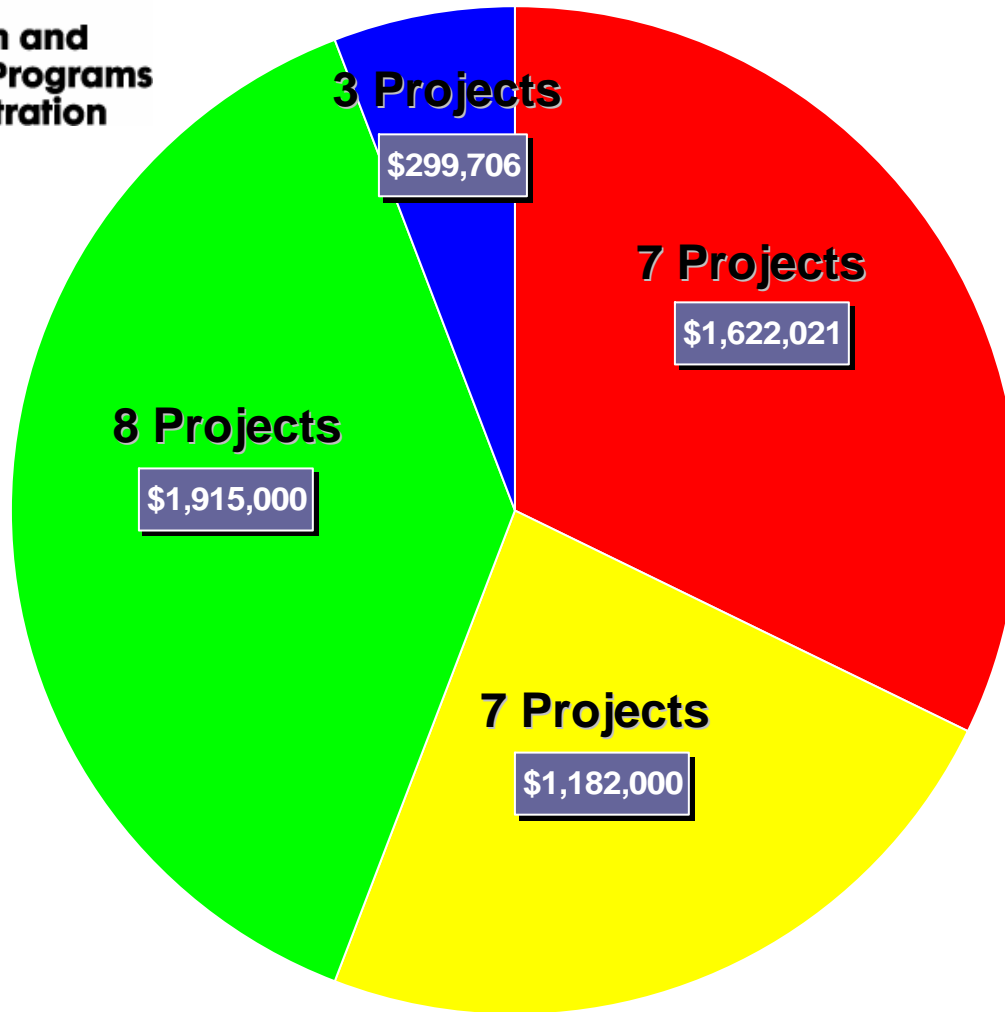




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Broad Agency Announcements & Small Business Innovation Research



- BAA #1 (March 2002)
- BAA #2 (June 2002)
- BAA #3 (Dec 2002)
- SBIR (June 2003)

**Total Projects Awarded
Since March 2002**

25

Total OPS Funding

\$5,018,727

Total Industry Co-Funding

\$5,568,475

Office of Pipeline Safety



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Broad Agency Announcement #4

148 White Papers Submitted

Damage Prevention (28 White Papers)

- Focus on the detection and prevention of excavation damage

Leak Detection (12 White Papers)

- Focus on the detection of small leaks

Enhanced Pipeline Operations, Controls, and Monitoring (19 White Papers)

- Human factors
- Airborne chemical mapping and pipeline encroachment monitoring
- Improved directional drilling

Improved Materials Performance (19 White Papers)

- Evaluation and development of promising new pipe materials
- Pipe coatings

Other Pipeline Safety Improvements (70 White Papers)

- Strengthening and validating direct assessment (DA) practices
- Mathematical pipeline modeling enhancements or computational pipeline modeling enhancements
- In Line Inspection for damage or defects
- Crack detection and Stress Corrosion Cracking (SCC)
- Design and Safety technology enhancements for LNG facilities



















Office of Pipeline Safety



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Current Jointly Supported Activities

Co-Funded by	Co-Funded Effort
 	1. Strain-Based Design of Pipelines - 2nd Effort
 	2. An Assessment of Magnetization Effects on Hydrogen Cracking for Thick Walled Pipelines
   	3. Int. Workshop on Advances Research & Development of Coatings for Corrosion Protection
 	4. An Assessment of Safety, Risks and Costs Associated With Subsea Pipeline Removals
 	5. Intelligent Systems for Pipeline Infrastructure Reliability (ISPIR)
 	6. Remote Sensing (Leak Detection) Technology Demonstration
 	7. Advanced Sensor (Pipe Inspection) Technology Demonstration
 	8. Laboratory Research to update Consensus Standards

OPS R&D Website <http://primis.rspa.dot.gov/rd>

R&D Home Page - Microsoft Internet Explorer

Address: <http://primis.rspa.dot.gov/rd/>



Research & Development

U.S. Department of Transportation

R&D Home

Announcements

Recent Projects

Meetings

Success Stories

Links

Contacts

Feedback

OPS Communications

Welcome to RSPA's Pipeline Safety Research and Development Website.

This site is dedicated to the coordination and dissemination of Research and Development information related to Pipeline Safety.

OPS conducts and supports research to support regulatory and enforcement activities and to provide the technical and analytical foundation necessary for planning, evaluating, and implementing the pipeline safety program. OPS is sponsoring research and development projects focused on providing near-term solutions that will increase the safety, cleanliness, and reliability of the Nation's pipeline system.



Recent R&D projects are focused on: leak detection; detection of mechanical damage; damage prevention; improved pipeline system controls, monitoring, and operations; and, improvements in pipeline materials. These projects are addressing technological solutions that can quickly be implemented to improve pipeline safety.


In 2003, a study by the General Accounting Office (GAO) found that OPS's R&D program is aligned with OPS's mission and pipeline safety goals.

US Department of Transportation - Research and Special Programs Administration - Office of Pipeline Safety

Address: <http://primis.rspa.dot.gov/rd/gao2003.htm>

Project Map - Microsoft Internet Explorer

Address: <http://primis.rspa.dot.gov/rd/projectmap.htm>



Recent R&D Projects Map

U.S. Department of Transportation

R&D Home

Announcements

Recent Projects

Meetings

Success Stories

Links

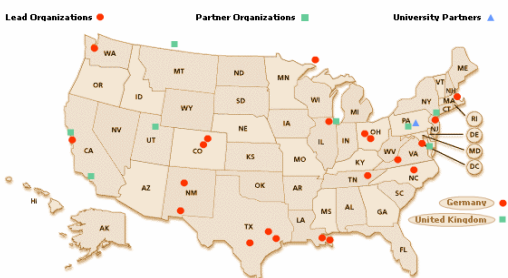
Contacts

Feedback

OPS Communications

The symbols on the following map indicate the locations of research firms conducting projects for the Office of Pipeline Safety. Click these symbols to display further project information.

Lead Organizations ● **Partner Organizations** ■ **University Partners** ▲



Golden, Colorado
An Assessment of Magnetization Effects on Hydrogen Cracking for Thick-Walled Pipelines (\$100,000)

Done

OPS Research and Development - Microsoft Internet Explorer

Address: <http://primis.rspa.dot.gov/matrix/PrjList.rdm>

Query by Category

Pipeline Type/Location	Risk Analysis Methods	Pipeline Condition/Pipeline Activities
<ul style="list-style-type: none"> Onshore Transmission Pipeline <ul style="list-style-type: none"> Gas Pipeline Liquid Pipeline Arctic Offshore Liquefied Natural Gas/LNG Natural Gas Distribution Storage Other Pipeline Types <ul style="list-style-type: none"> CO2 Propane Methanol Hydrogen 	<ul style="list-style-type: none"> Fracture Analysis Damage Condition Assessment Consequence Analysis Risk Assessment Incident/Root Cause Analysis 	<ul style="list-style-type: none"> Pipeline Condition <ul style="list-style-type: none"> Internal Corrosion External Corrosion Stress Corrosion Cracking Manufacturing Defects Weld/Fabrication Defects Ruptures Outside Force Damage Cathodic Protection Equipment Failures Pipeline Maintenance Pipeline Materials Repair/Rehabilitation Operator Error Excavation Techniques
Regulatory Issues <ul style="list-style-type: none"> Damage Prevention Public Safety Pipeline Design/Construction Pipeline Mapping/Location Emergency Response Incident Reporting Data Quality Rights-of-Way 	Inspection and Assessment Technologies <ul style="list-style-type: none"> Leak Detection Airborne Monitoring In-Line Inspection/Pigging Hydrostatic Testing Direct Assessment Emerging Technology Non-destructive Testing/Evaluation Remote Sensing 	Processes/Tools <ul style="list-style-type: none"> Quality Assurance Change Management Integrity Management <ul style="list-style-type: none"> USAs Communication Tools Performance Measure One-call Systems Types of Study <ul style="list-style-type: none"> Literature Review Study Project International Comparisons Types of Project <ul style="list-style-type: none"> Systems Development


Done

OPS Research and Development: Baseline Study of Alternative In-Line Inspection Vehicles - Microsoft Internet Explorer

Address: <http://primis.rspa.dot.gov/matrix/PrjHome.rdm?prj=110>

OPS Research and Development

Baseline Study of Alternative In-Line Inspection Vehicles



Project Categories
Click on any category to see other projects in this category.

- In-Line Inspection/Pigging
- Internal Corrosion
- External Corrosion
- International Comparisons

Project Search

Go

Advanced Search...

Research Home Page

Library

Questions and Comments

Research and Development OPS Communications

All Projects

Log In

Admin

Print-friendly

Fast Facts

Research Entity:	Southwest Research Institute
COTR:	Wade Van Nguyen
Contract #:	DTRS56-02-T-0004
OPS Library No:	Unknown
Contact Info:	Ms. Janice Jackson 6220 Culebra Road San Antonio, Texas 78238 Email: acrouch@swri.org http://www.swri.org
Collaborators:	El Paso Pipeline Company Pipeline Research Council International, Inc. (PRCI)
Financial Data	
Status Code:	Current
Fiscal Year Started:	2002
End Year:	2003
Budget Allocation Type:	Unknown
Funded by OPS:	Yes
Co-Funders:	Co-funded by El Paso Pipeline Company and PRCI for \$40,000

Project Description

The purpose of this research is to conduct a baseline study of alternative ILI vehicles that might be able to negotiate unpiggable pipelines. The researchers will: (1) document the status of ILI devices being used in other industries, (2) document designs of ILI devices being used in other industries, (3) identify options to inspect transmission and distribution lines, (4) document current ILI systems in the U.S. and abroad, and (5) summarize internal tool capability in other related industries (nuclear, water, plant production).

- Total Project Proposal \$80,000.00.

Status History

Project initiated in October 2002. Project duration of 9 months. Third-quarter, 2003, status report posted, 8/29/03. Final Report and Close-out Presentation posted November 2003.

Attachments

- Projno110_1st_Qtrly_Rpt_Jan03_Public.pdf (177,048 bytes)
- Projno110_2nd_Qtr_Rpt_May03_Public.pdf (33,900 bytes)
- Third-quarter, 2003, status report from Southwest Research Institute. Projno110_3rd_Qtr_Rpt_082903_Public.pdf (11,386 bytes)
- Projno110_CloseOut Oct07_2003_Public.pdf (2,936,324 bytes)

Done



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New Program Structure



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Influences on the R&D Program Structure How did we evolve?

- **Blue Ribbon Panel**
- **Pipeline Safety Advisory Committees**
- **Government/Industry Pipeline R&D Forum**
- **GAO Report on OPS R&D Program (June 2003)**
- **OMB Performance Assessment & Rating Tool (PART)**



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Research and Special Programs Administration

R&D Program & OMB PART

Being more business like!

- Attended numerous training sessions
- Consulted with several Federal R&D Programs
- Learned about Strategic Plans, Performance Plans and Logic Models
- Participated in combined OPS PART Evaluation

PART Components

OMB PART for Applied R&D Programs

Program Purpose & Design	Strategic Planning	Program Management	Program Results/ Accountability
1.1 Purpose clear? 1.2 Address a specific problem, interest, or need? 1.3 Not duplicative of other Federal, state, local or private efforts? 1.4 Design free of major flaws? 1.5 Effectively targeted – resources reach intended beneficiaries and/or address purpose directly?	2.1 Meaningful long-term performance measures? 2.2 Targets & timeframes for long-term measures? 2.3 Annual performance measures? 2.4 Baselines and targets for annual measures? 2.5 Partners work toward long-term goals? 2.6 Independent evaluations? 2.7 Budget requests tied to annual and long-term goals? 2.8 Correcting strategic planning deficiencies? 2.RD1 Compare program benefits to similar efforts? 2.RD2 Prioritization process for budget and funding decisions?	3.1 Regular collection of performance information to manage program? 3.2 Managers and partners held accountable? 3.3 Funds obligated timely and spent for intended purpose? 3.4 Procedures to measure & achieve efficiencies & cost effectiveness? 3.5 Collaborate and coordinate with related programs? 3.6 Strong financial management practices? 3.7 Addressing management deficiencies? 3.RD1 Allocate funds and use management processes that maintain program quality?	4.1 Demonstrated progress towards long-term performance goals? 4.2 Achieve annual performance goals? 4.3 Improved efficiencies or cost effectiveness towards program goals? 4.4 Compare favorably to similar government or private efforts? 4.5 Independent evaluations indicate that program is effective and achieving results?



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Our Mission

Office of Pipeline Safety

To ensure the safe, reliable, and environmentally sound operation of the Nation's pipeline transportation system

Office of Pipeline Safety Research & Development Program

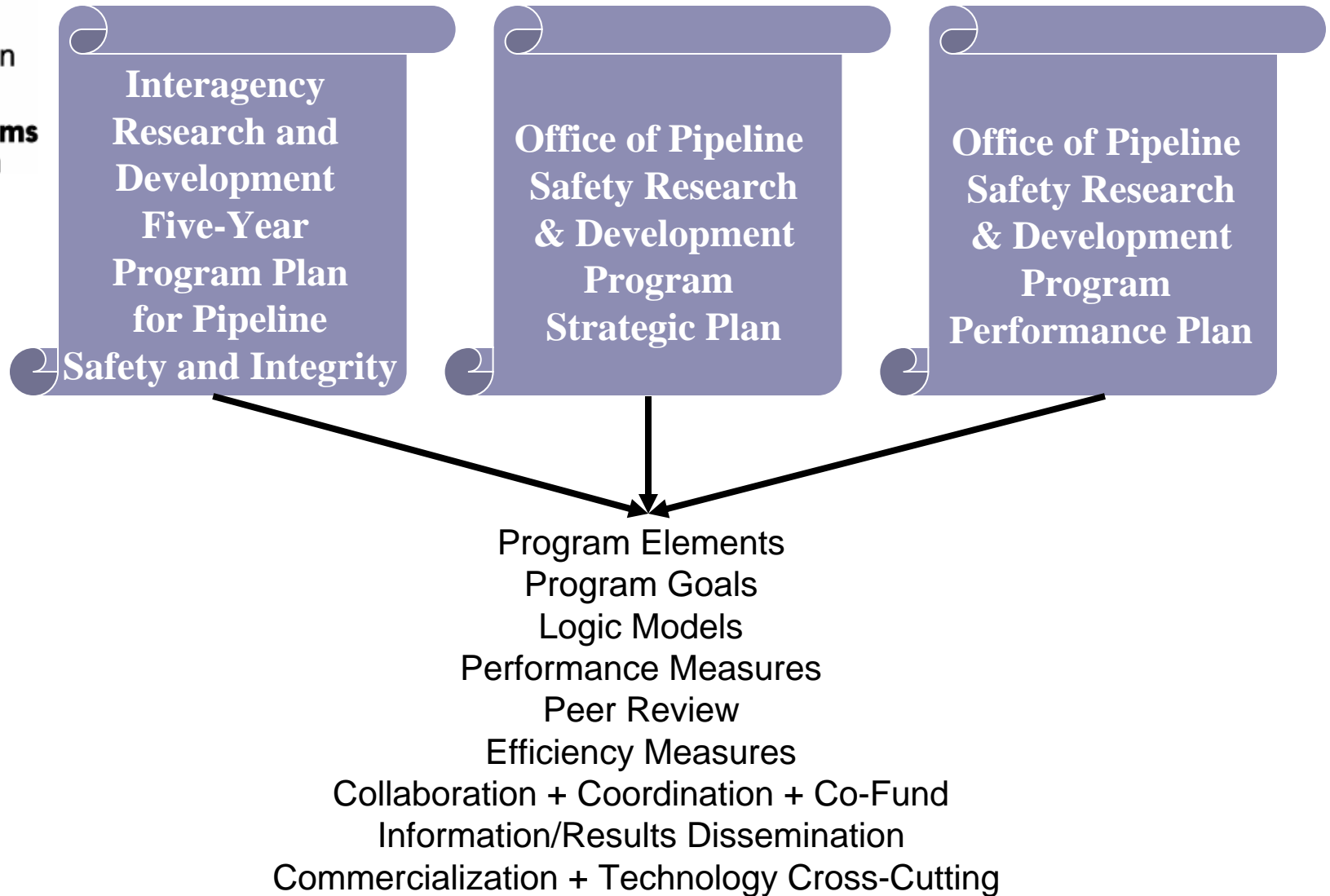
To sponsor research and development projects focused on providing near-term solutions that will increase the safety, cleanliness, and reliability of the Nation's pipeline transportation system



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Concise & Consolidated



Office of Pipeline Safety



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R&D Program Elements for Pipeline Safety

1. Damage Prevention & Leak Detection
2. Pipeline Inspection & Direct Assessment
3. Defect Assessment, Characterization & Mitigation
4. Improved Design, Construction, & Materials
5. Mapping & Information Systems
6. Enhanced Operation Controls & Encroachment Monitoring
7. Risk Management & Communications
8. Other Safety Issues for Emerging Technologies



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R&D Program Goals for Pipeline Safety

	<u>Program Elements</u>	<u>Program Goals</u>
1.	Damage Prevention & Leak Detection	Reduce the number of hazardous incidents resulting from outside force, leaks, and corrosion
2.	Pipeline Inspection & Direct Assessment	Identify and locate critical pipeline defects using in-line inspection and direct assessment technologies
3.	Defect Assessment, Characterization & Mitigation	Improve the capability to detect, assess, and mitigate defects in pipeline systems before becoming critical hazards
4.	Improved Design, Construction, & Materials	Improve integrity of pipeline and facilities through enhanced technologies for construction, materials, & fabrication
5.	Mapping & Information Systems	Better response to pipeline incidents through improved technologies and information systems for pipeline mapping and collection of pipeline safety data
6.	Enhanced Operation Controls & Encroachment Monitoring	Enhance the safety of pipeline operations through enhanced controls and encroachment monitoring
7.	Risk Management & Communications	Reduce the probability and mitigate the consequences of hazards to pipelines
8.	Safety Issues for Emerging Technologies	Identify and assess emerging technologies for enhancing safety

Goals	Activities <i>Program Elements</i>	Outputs	Customers	Short -Term Impacts	Long -Term Impacts
Performance goals pursued	Activities needed for results desired	Results expected from activities	Customers reached or effected	Outcomes expected in 1-5 years	Outcomes expected in 3-10 years
Reduce number of incidents from outside force, leaks, & corrosion	1.Damage Prevention & Leak Detection	New methods for pipe locating, damage prevention, leak detection, and corrosion protection	Transmission & distribution companies, plastic pipe vendors, sensor; corrosion protection companies	Proof-of-Concept for new damage prevention , leak detection, and corrosion prevention technologies	Reduce number of incidents from third party contact with pipelines, leaks, and corrosion
Identify/locate critical defects using inline inspection & DA technologies	2.Pipeline Inspection & Assessment	Improved technology for detection of unsafe pipeline defects	Pipeline operators, pipeline inspection vendors, and pipeline standards organizations	Improved technology for field deployment; new detection and inspection products; more capable DA methodologies	Reduction in pipeline defects leading to pipeline ruptures and leaks
Improve capability to detect, assess, & mitigate defects before becoming critical hazards	3.Defect Characterization & Mitigation	Improved understanding of anomalies and defects in line pipe and threats to pipeline integrity	Pipeline operators, pipeline inspectors, pipeline service companies, pipeline standards organizations	Improved assessment and validation Tools; better understanding of conditions adversely affecting integrity	Fewer defects in pipeline systems adversely affecting public safety
Improved integrity through enhanced technologies for construction & fabrication	4.Improved Design, Construction & Materials	Improved technology for pipeline and facilities design, construction, materials, and fabrication	Operators, vendors, service, construction, & standards organizations	Better technology and methods for design, construction, materials, and fabrication	Widespread use of improved methods and technology for design, construction, materials, and fabrication

Goals	Activities <i>Program Elements</i>	Outputs	Customers	Short -Term Impacts	Long -Term Impacts
Performance goals pursued	Activities needed for results desired	Results expected from activities	Customers reached or effected	Outcomes expected in 1-5 years	Outcomes expected in 3-10 years
Better incidents response by improved info. & tech. systems for mapping & safety data collection	5.Mapping & Information Systems	Improved information systems for mapping and data analysis	Pipeline regulators, pipeline operators	Improved pipeline location and mapping technology; enhanced information systems for emergency response and data analysis	Reduction in the consequences of pipeline incidents through better anticipation and response to emergencies
Enhance safety of operations by enhanced controls and encroachment monitoring	6.Enhanced Operation Controls & Encroachment Monitoring	New pipeline operations controls; technology for detecting pipeline encroachment	Pipeline operators, pipeline service companies, pipeline vendors	Improved ability to identify & mitigate unsafe operator consequences; Ability to detect potentially hazardous contact with line pipe	Ability to control or shutdown pipelines before hazards can cause harm to people or property
Reduce the probability and mitigate the consequences of hazards	7.Risk Management & Communications	New understanding of potential risks of pipeline operations; Methods for communicating risks to local officials & public	Pipeline regulators, pipeline operators, pipeline service companies, local public safety officials	Better understanding of potential risks of pipeline operations; improved land use planning around pipelines	Fewer hazardous consequences during incidents; better land use planning & development near pipelines
Identify & aid emerging technologies for enhancing safety	8.Safety Issues for Emerging Technologies	Analysis of safety concerns and issues; assess potential of new technologies	Pipeline regulators, pipeline operators	Identification of promising new technologies that could enhance pipeline safety	Implementation of new technologies that can reduce the risks of pipelines

Goals	Activities	Outputs	Customers Reached	Short -Term Outcomes	Long -Term Impacts
We are pursuing these performance goals:	In order to accomplish our intended results, we will conduct the following activities:	We expect that once completed or underway these activities will produce the following results:	We expect that if completed or ongoing these activities will reach or affect the following customers:	We expect that if completed or ongoing these activities will lead to the following outcomes in 1-5years:	We expect that the outcomes will lead to the following changes or impacts in 3-10 years:
	<i>Program Elements/</i> Planned or Funded Projects				
Reduce the number of hazardous incidents resulting from outside force, leaks, and corrosion	1. Damage Prevention & Leak Detection	New methods for pipe locating, damage prevention, leak detection, and corrosion protection	Transmission & distribution companies, plastic pipe vendors, sensor companies; corrosion protection companies	Proof-of-Concept for new damage prevention , leak detection, and corrosion prevention technologies	Reduction in the number of incidents resulting from unauthorized contact with pipelines, leaks, and corrosion
	Locatable Magnetic Plastic Pipe DTRS56-02-T-0006	Proof-of-concept of magnetically locatable plastic pipe	Pipeline operators; plastic pipe vendors; sensor companies	Locatable plastic pipe for new construction	Fewer instances of damage to plastic pipe from excavation
	Digital Mapping of Buried Pipelines, Dual Array System DTRS56-02-T-0005	System that combines radar and electromagnetic induction arrays for precise positioning of pipelines	Pipeline location services; pipeline operators	New capability to locate and map buried pipelines in nearly all soil types	Fewer instances of damage to pipelines from excavation
	Piezo Acoustic Leak Detection DTRS57-04-C-10016	Proof-of-concept of a piezoelectric system for acoustic detection of leaks in pipelines	Pipeline operators; pipeline sensor vendors	Capability for real-time detection of leaks in pipelines	Detection of pipeline leaks before they can present a hazard



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Collaborate/Coordinate/Co-Fund Activities and Drivers

Pipeline Safety Improvement Act (PSIA) of 2002

- Interagency Five-Year Research Program Plan
- Memorandum of Understanding
- Quarterly interagency coordination meetings
- Future combined pipeline R&D solicitations
- Common Pipeline R&D Program Presentation

Joint Government/Industry R&D Forum

- Challenge/Gap identification
- Program and project information dissemination and feedback

Blue Ribbon Panel

- Stakeholder input on program direction and feedback

Pipeline Safety Advisory Committees

- Program dissemination and feedback on activities



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R&D Program Management Information System (MIS)

System Benefits

1. Completely paperless with secure online submission and review of White Papers and Proposals
2. Provides tracking, inventory, accountability and oversight features through database management
3. Links Program & Project activities with Procurement and Finance requirements streamlining fiduciary responsibilities with efficient management
4. Resulting reduction of workload for submitters, reviewers, CO's, COTR's & management
5. Provides rapid/accurate queries for a variety of program and project level information requests

Management Information System (MIS)

OPS Research and Development: DTRS56-04-BAA-0002 - Microsoft Internet Explorer

Address: http://pimis.rspa.dot.gov/matrix/Rfp1.rdm

OPS Research and Development

DTRS56-04-BAA-0002

Welcome to the online research solicitation submission system for the Department of Transportation's Office of Pipeline Safety

Pipeline Safety Research and Development - Damage Prevention; Leak Detection; Enhanced Pipeline Operations, Controls, and Monitoring; Improved Materials Performance; and Other Safety Improvements

SPECIAL NOTE: This announcement will be open for white paper submission through **March 5, 2004** or unless otherwise amended. This announcement is purely paperless and requires registration before the submission of your white paper. You will then receive a User ID and Password via email to a private and secure location for uploading your white paper. The period for registration expires on **February 27, 2004** or 5 working days prior to end of this announcement.

The purpose of the BAA is to solicit research projects to assure the long-term integrity and security of the nation's gas and hazardous liquid pipeline network. A team of experts will review white papers submitted in response to this announcement and offerors will be advised of the outcome and anticipated follow-up from this review as it is completed.

More information is available below.

[Register for DTRS56-04-BAA-0002](#) [Q & A](#)

All inquiries concerning the announcement shall be directed to the RSPA Office of Contracts and Procurement, ATTN: Mr. Warren D. Osterberg, Contracting Officer, Telephone: (202) 366-6942; <mailto:warren.osterberg@rspa.dot.gov>

For questions or problems with the Registration or Application of the Web Site, please email Randy Pearson at <mailto:randyp@cycla.com>.

Announcement Details
DTRS56-04-BAA-0002
U.S. Department of Transportation, Research and Special Programs Administration, Office of Contracts and Procurement.

OPS Research and Development: Registration Page - Microsoft Internet Explorer

Address: http://pimis.rspa.dot.gov/matrix/RfpReg.rdm

OPS Research and Development

Registration Page

Entity Form

Organization/Entity Data

Official Name of Organization/Entity:

Entity Type:

- For Profit
- Educational/University
- Other Non-Profit
- Government - Federal
- Government - State
- Government - Local

Mailing Address:

Small business?: (as defined by SBA) Yes No

B(a) Firm?: (as defined by SBA) Yes No

EIN/TIN: Format as: 99-9999999

Summary of Type of Research Performed: For information only. This does not constrain what white papers you can later submit.

Principal Contact Data

Last Name: First Name(s):

Job Title:

OPS Research and Development: My Reviews for DTRS56-04-BAA-0002 - Microsoft Internet Explorer

Address: http://pimis.rspa.dot.gov/matrix/rlfmpypapreviews.rdm?order=focusscore&rv=3

OPS Research and Development: Robert Smith

My Reviews for DTRS56-04-BAA-0002

[Manage DTRS56-04-BAA-0002](#) [Info for DTRS56-04-BAA-0002](#) [Instructions for Reviewers](#) [Manage BAA](#) [White Papers](#) [Edit RFP](#) [Open Solicitations](#) [Research Entities](#)

White Paper Reviews by Robert Smith, Sorted by: My Score Grouped by Focus Area

Order by: [\[Date\]](#) [\[Offeror\]](#) [\[Focus Area\]](#) [\[My Score\]](#) [\[Focus Area + My Score\]](#)

WP #	Offeror	Project Title	Co-Share Partner(s) Name	White Paper File	Score
1.	WP#58	Damage Prevention		[View/Download...] 99,473 byte (PDF)	22
2.	WP#61			[View/Download...] 113,277 byte (PDF)	21
3.	WP#34			[View/Download...] 255,963 byte (PDF)	20
4.	WP#143			[View/Download...] 141,261 byte (PDF)	20
5.	WP#157			[View/Download...] 896,512 byte (DOC)	18
6.	WP#158			[View/Download...] 47,616 byte (DOC)	18
7.	WP#15			[View/Download...] 671,744 byte (DOC)	17

OPS Research and Development: White Paper Review - Microsoft Internet Explorer

Address: http://pimis.rspa.dot.gov/matrix/PapReview.rdm?spap=78&rv=3

Recuse Myself for this White Paper

No	Review Criteria	Scores	Strengths	Weaknesses
1.	Offeror's understanding, and description, of the "state of the art" in the research area the offeror is proposing to address	Score: <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 1 = Unacceptable, 5 = Excellent	<input type="text"/>	<input type="text"/>
2.	The scientific and technical merit of the proposal to advance pipeline safety	Score: <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 1 = Unacceptable, 5 = Excellent	<input type="text"/>	<input type="text"/>
3.	The adequacy and feasibility of the technical approach and realism of cost estimate	Score: <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 1 = Unacceptable, 5 = Excellent	<input type="text"/>	<input type="text"/>
4.	Technical experience and capabilities of the offeror in federal research programs	Score: <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 1 = Unacceptable, 5 = Excellent	<input type="text"/>	<input type="text"/>
5.	Time line to implement the proposed technologies and concepts into practice in the pipeline industry (one to three years preferable)	Score: <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 1 = Unacceptable, 5 = Excellent	<input type="text"/>	<input type="text"/>

Overall Comments:

Total Score:



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OPS R&D Program

Next Steps

- Public release of Strategic & Performance Plans – Summer 2004
- Continue the development and implementation of the MIS – Summer 2004
- Award projects from BAA #4 – August 2004
- Begin to populate database with performance evaluation data – Fall 2004 and further
- Use R&D Logic Models with performance data to adjust Strategic efforts – TBA 2005
- Begin Roadmapping of issues and forecast required resources – Winter 2005
- Assess current efforts and direction at next Gov/Industry R&D Forum – Feb 2005



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**Research and
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R&D Program Performance Measures



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GAO Report 03-746 & OMB PART

GAO Recommendation for OPS R&D Program – June 2003

“...that OPS develop a systematic process for evaluating program outcomes, using recognized best practices...”

OMB PART Performance Fundamentals

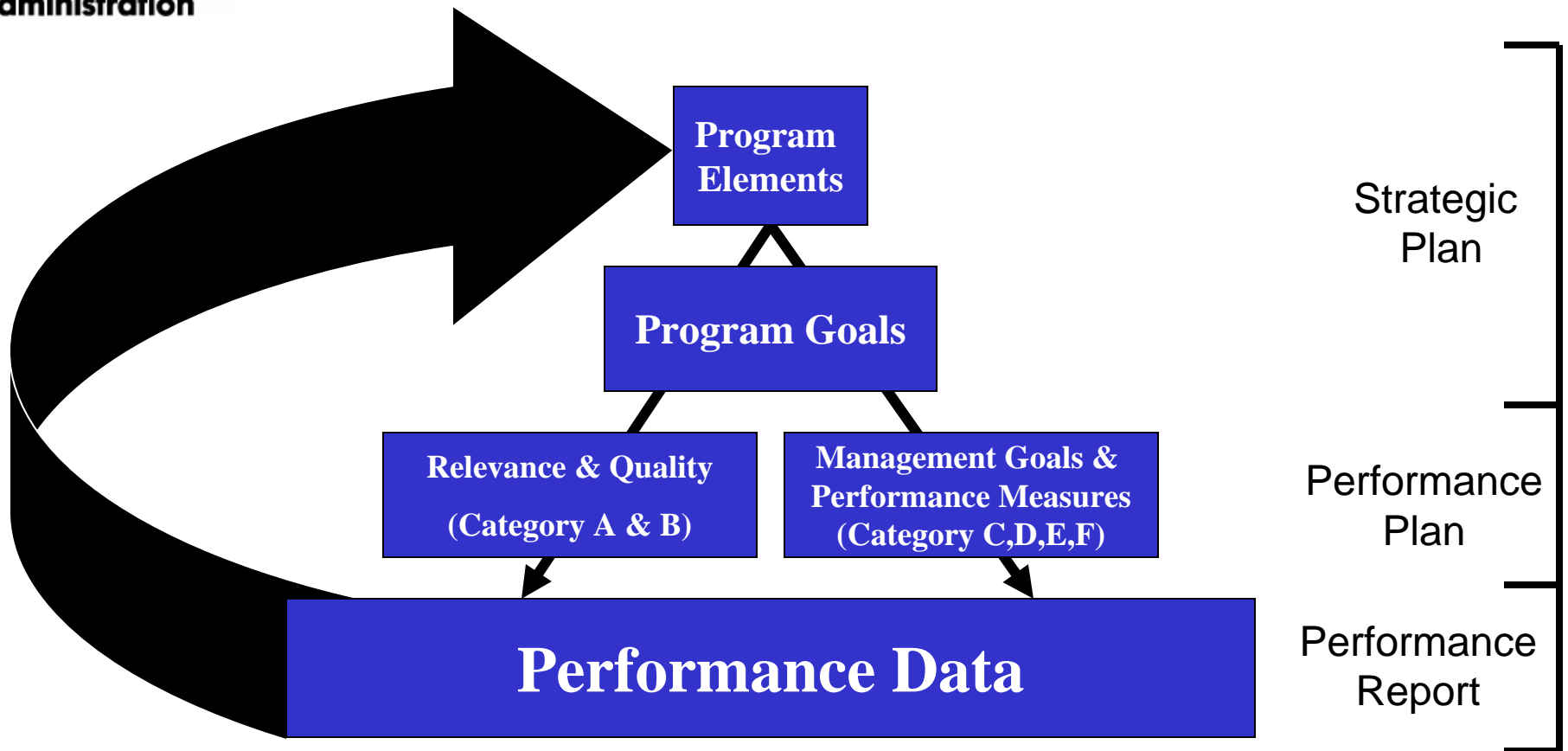
1. Evaluate your program outputs based on Relevance, Quality, and Performance
2. Performance data can be both Quantitative and Qualitative
3. Create Management Efficiency Measures to improve/maintain performance



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R&D Program Performance Measures





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Please Keep in Mind the Following

1. Try not to focus on a single measure for assessing the program
2. Think of the measures as a collective approach to assess our performance
3. Each measure will provide a piece of that data required for a full assessment
4. Some measures are quantitative and some qualitative
5. Some measures are collected annually and some are long-term
6. Peer review items and efficiency measures are spread throughout some performance categories (A,B,C,D,E,F)
7. Some measures have dual use and some are related



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R&D Program Performance Measures

Relevance & Quality

	<u>Performance Categories</u>	<u>Performance Measures</u>
A.	Relevance of the R&D Program to National Priorities and the Mission of the Office of Pipeline Safety	<ol style="list-style-type: none">1. Guided by R&D Strategic Plan2. Periodic review of program by safety advisory committees (TPSSC and THLPSSC)3. Fraction of R&D funding linked to new rulemaking and/or statutory requirements4. Fraction of R&D funding tied to NTSB issues5. Fraction of R&D funds linked to strengthening national engineering standards
B.	Quality and Impact of R&D Program	<ol style="list-style-type: none">1. Fraction of projects achieving performance objectives2. Annual peer review evaluation of projects3. Priority ranking of R&D needs and opportunities4. Guided by R&D Logic Model



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R&D Program Performance Measures

Management Goals & Performance Measures

	<u>Performance Categories</u>	<u>Performance Measures</u>
C.	Program Management Activities	<ol style="list-style-type: none">1. Guided by R&D Performance Plan2. Percent of OPS R&D projects satisfying project performance milestones3. Ratio of OPS R&D funding to number of OPS R&D staff participation (\$/FTE)4. Fraction of total R&D funding (including co-funding) to OPS R&D funding5. Fraction of R&D projects competitively awarded
D.	Coordination and Collaboration with Other Agencies, Industry, and Other Stakeholders	<ol style="list-style-type: none">1. Guided by Interagency Agreements2. Periodic Interagency R&D coordination meetings3. Number of discrete R&D program ideas received from program solicitations (white papers, prospectus, and proposals) (annual)4. Periodic program reviews by external stakeholders (e.g. Blue Ribbon Panel)5. Periodic priority ranking of R&D needs and opportunities with stakeholder participation



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	<u>Performance Categories</u>	<u>Performance Measures</u>
E.	Communication of R&D Program Activities, Results, and Impacts	<ol style="list-style-type: none">1. Ratio of the number of OPS technical reports, advisories, and regulations from R&D program to the number of current R&D projects (annual)2. Person-days of stakeholder participation in OPS-sponsored, R&D-related workshops, technical conferences, and communication forums (annual)3. Number of hits on OPS R&D website (annual)4. Number of special communications to targeted stakeholders (forums and documents) (annual)
F.	Technology Transfer and Application of Results	<ol style="list-style-type: none">1. New patent applications and invention disclosures (annual)2. Number of commercial products incorporating results of R&D program (annual)3. Number of papers published at technical conferences (annual)4. Number of consensus standards incorporating R&D results (annual)5. Number of new or revised regulations incorporating R&D results (annual)



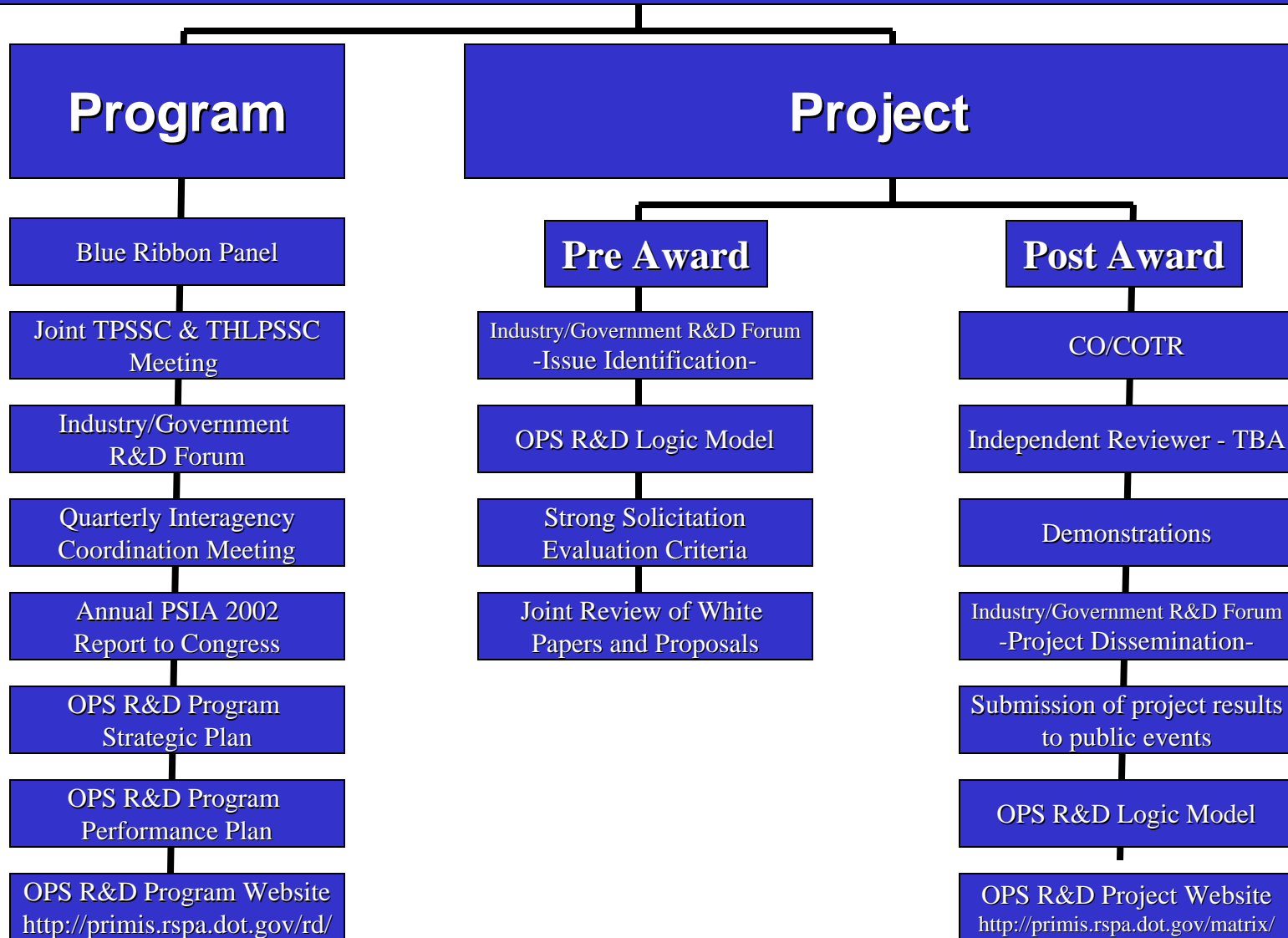
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R&D Program Efficiency Measures

1. Percent of OPS R&D projects satisfying project performance objectives
2. Ratio of OPS R&D funding to number of OPS R&D staff participation (FTE)
3. Fraction of OPS funding to total funding of projects awarded
4. Percent of R&D projects competitively funded
5. Percent of OPS R&D funding that is one year or less in duration
6. Percent of OPS R&D funding that is one to two years in duration
7. Percent of OPS R&D funding that is greater than two years in duration

OPS Pipeline R&D Peer Review





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OPS R&D Performance Plan

What's Next?

- Collect the feedback from the panel
- Make any appropriate changes and complete the Performance Plan
- Incorporate the data fields into the MIS as we implement
- Include new contractual requirements for projects to assist program performance
- Initiate using the collected performance data to make educated strategic decisions



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Let's Take a Break!



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Open Discussion & Feedback

- 1. Performance Measures**
- 2. Technology Transfer – Let's Brainstorm**



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-Wrap-up -

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