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of Transportation
**Pipeline and
Hazardous Materials
Safety Administration**

Office of Pipeline Safety Update

GITA Oil & Gas Conference

**Houston, Texas
September 20, 2005**

OPS Southwest Region



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**Pipeline and
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Safety Administration**

Outline

- **Office of Pipeline Safety Mission**
- **Community Assistance/Technical Services Program**
- **Public Awareness Programs
(API RP 1162)**
- **Pipeline Integrity Management**



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OPS Mission Statement

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



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Community Assistance/ Technical Services (CATS) Program

Office of Pipeline Safety



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CATS Mission Statement

**“To advance public safety,
environmental protection and pipeline
reliability by facilitating clear
communications among all pipeline
stakeholders, including the public, the
operators and government officials.”**



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Community Assistance/ Technical Services

- **New OPS Program to improve Communications with variety of Pipeline Safety Stakeholders**
- **Serve on CGA Committees to improve Damage Prevention Practices, Education, & Data Collection**



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Community Assistance/ Technical Services

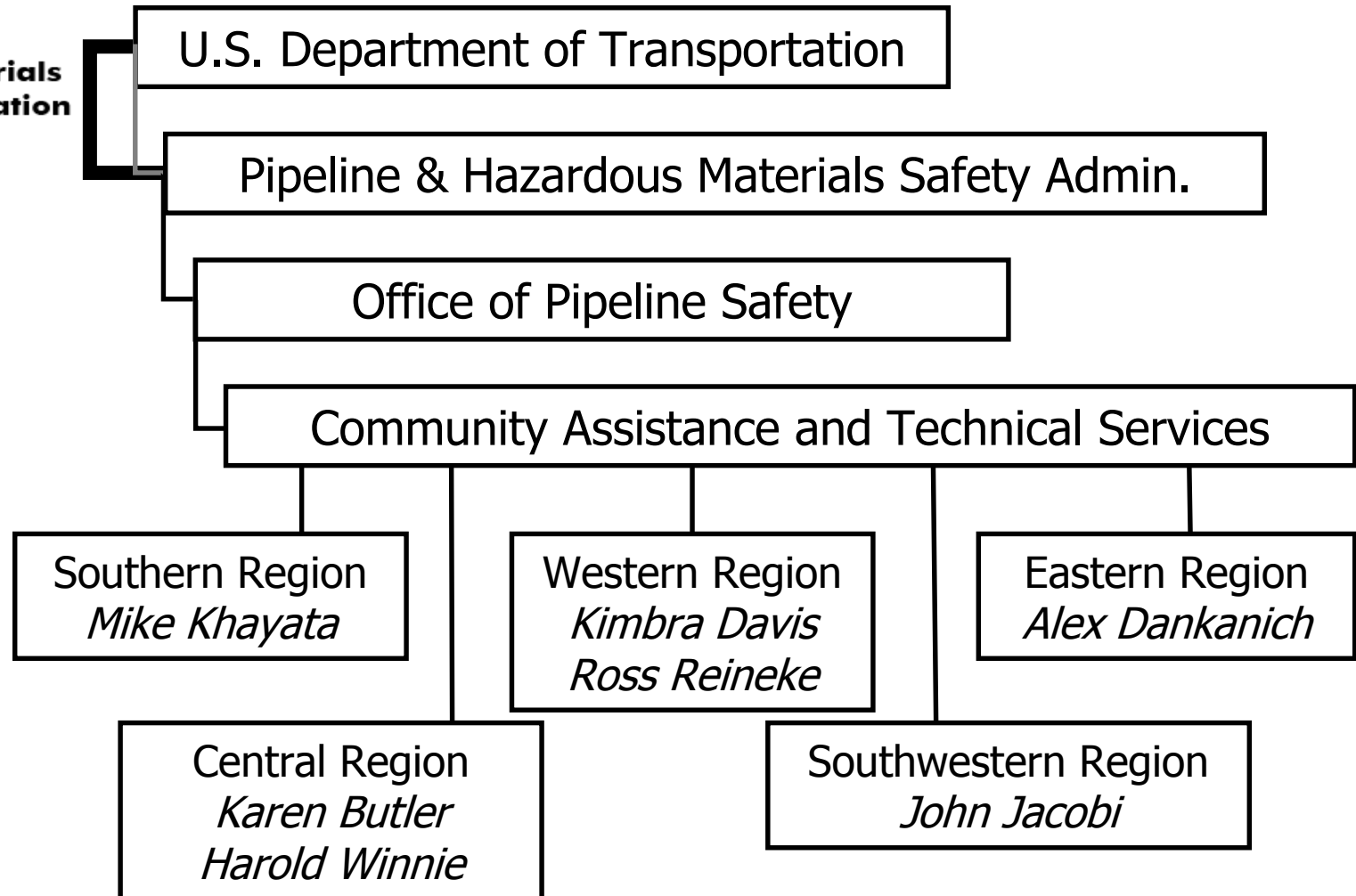
- **Work with State Partners to assess and strengthen State Damage Prevention programs**
- **Provide Pipeline Safety information during FERC Hearings for new gas pipelines and LNG facilities**
- **Leading Pipeline Repair Permit Streamlining efforts**



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Where the CATS program fits



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Key Elements of the CATS Program:

- **Damage prevention**
- **Permit facilitation and technical assistance**
- **Outreach and public awareness**
- **Special projects**



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Damage Prevention

- **Common Ground Alliance**
- **Pipeline Safety Improvement Act of 2002**
- **Operators and trade organizations**
- **Excavators/Contractors/
Homeowners**
- **Utility Coordination Committees and
Damage Prevention Councils**
- **State Damage Prevention Program
Initiative**



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Permit Facilitation and Technical Assistance

- **PSIA 2002 – Established a White House Interagency Task Force**
 - **Memorandum of Understanding (MOU) re implementation and facilitation**
 - **DOT (OPS) is lead agency**
 - **Only for repairs**
- **Outreach to other federal and state agencies**
- **Individual operator requests**



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Outreach and Public Awareness

**Partnership approach to pipeline
safety by educating and enabling
stakeholders such as:**

- **Public/community/homeowner groups**
- **Pipeline safety advocates**
- **City and county governments**
- **Industry**
- **Tribal councils and tribal emergency planning groups**
- **Local Emergency Planning Committees**



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Outreach and Public Awareness

State Pipeline Safety Program Support

- **NAPSR relations**
- **Participating in state partner public meetings and seminars**
- **Communicating OPS initiatives to state partners**
- **Other state partner support**



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Public Awareness Programs

API RP 1162

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API RP 1162

Public Awareness Programs

Final Rule

- **In May 2005, OPS published a Final Rule to incorporate by reference API RP 1162 into Parts 192 and 195**
- **Public Awareness Plans, complying with RP 1162, must be completed by June 2006**
- **OPS will issue an Advisory Bulletin providing instructions for submitting the plan to OPS or State Partner**



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API RP 1162

Public Awareness Programs

Industry Drivers

- **OPS commitment to improving public education and awareness**
- **PSIA '02 public education requirements**
- **NTSB recommendations for public education improvements**
- **Gas IM Rule communication provisions**



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API RP 1162

Public Awareness Programs

RP 1162 Program Elements

- **Program development & implementation**
- **Key stakeholder audiences**
 - **Affected public along ROW**
 - **Emergency and public officials**
 - **Excavators**
- **Message content**
- **Message delivery method and frequency**
- **Program evaluation**
- **Program enhancement**
- **Documentation and recordkeeping**



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API RP 1162

Public Awareness Programs

- **OPS will host a Public Workshop in the Fall of 2005 to discuss plan development, especially evaluating effectiveness**
- **Collaboration among pipeline operators can improve effectiveness by delivering a single message to excavators and first responders**
- **OPS working with NAPSR to refine Clearinghouse concept encourage uniform nationwide review**



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Pipeline Integrity Management

Office of Pipeline Safety



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Pipeline Integrity Management

- **Distribution Systems**
- **Liquid Transmission**
- **Gas Transmission**



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Distribution Systems

- **Distribution systems are extremely diverse (operators, infrastructure, state regulation, etc.)**
- **States have the principal authority over distribution systems w/support from OPS**
- **Efforts will be focused on yet-to-be-defined high consequence areas (risk based)**



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Distribution Systems

(continued)

- **OPS has reported a two-phase approach to Congress (6/20/05):**
 - 1. Work/study groups will develop alternatives (done by year end 2005)**
 - 2. OPS will sponsor (or develop) guidelines or standards and publish them for public comment by 4th quarter CY2006**



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Distribution Systems

(continued)

- **There will be LOTS of mapping associated with distribution system integrity management (more miles of pipeline than transmission lines and generally more complex features)**



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Liquid Transmission Integrity Management

- **Identify segments that could affect HCAs (HCAs are ecologically based v. population based for gas systems)**
- **Develop and implement Baseline Assessment Plan**



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Gas Transmission Integrity Management

- **Identification of HCAs**
- **Identification of threats**
- **Integrity Tests/Direct Assessment**
- **Process to identify preventive and mitigative measures**



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Gas Transmission Integrity Management

(continued)

- **Recordkeeping provisions**
- **Management of change process**
- **Quality assurance process**
- **Communication plan**



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Gas Transmission Integrity Management

(continued)

- **Procedures to minimize environmental and safety risks**
- **Process to identify and assess new HCAs**



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Identify High Consequence Areas - Option 1

- **All Class 3 and Class 4 areas**
- **Any area outside Class 3 or Class 4 where the potential impact radius is greater than 600 feet and the circle contains 20 or more buildings intended for human occupancy**
- **Any identified site**



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Identify High Consequence Areas - Option 2

- **Count residences within a potential impact circle to determine whether 20 or more buildings intended for human occupancy are present**
- **Any identified site**



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Pipeline Integrity Management - Summary

- **Distribution Systems – new program - requirements yet to be defined – very complex**
- **Liquid Transmission – has been in force several years – seems to be working**
- **Gas Transmission – just getting started**



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Questions

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Pipe Centerline – The Critical Integrity Element

- **What are your accuracy needs?**
- **What is your accuracy?**
 - **Digitization**
 - **Ortho-Photography**
 - **GPS**
 - *Hand-held GPS Collection*
 - *ILI Geo-Tool Data*
- **What don't Operators understand?**



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Work Management Systems Interface with GIS

- **How easily do various systems communicate with each other?**
- **How easy is it to visually see all of the various components on alignment sheets?**
- **How easy are updates?**



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Work Management Systems Interface with GIS

(continued)

- **How easy is it to view an isolated area?**
- **How user friendly is the system for field personnel?**
- **What don't Operators understand?**



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Why is Data Management Important?

- **How accurate is the data in a site specific location?**
 - **The pipe data (OD, WT, Grade, etc.)**
 - **The class**
 - **The MAOP or MOP**
 - **The hydrostatic test data**
 - **The coating data**



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Why is Data Management Important?

(continued)

- **How up-to-date is the data?**
- **How is/can the data be verified?**
- **What don't Operators understand?**



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HCA Validation

- **How have you validated the HCAs?**
 - **Gas**
 - *Method 1*
 - *Method 2*
 - **Liquid**
 - **Distribution** (future)



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HCA Validation

(continued)

- **How accurate are external data sources relative to your system?**
 - **USGS maps**
 - **Addresses**
 - **Etc.**
- **What don't Operators understand?**



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Creating Operator Identified HCAs using Internet GIS

- **How is this data tied to your system?**
- **What are the accuracies?**
- **What data is available and what data is not?**
- **How critical is any missing data?**
- **How user-friendly is it?**



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Setting the Stage for Distribution Integrity Management

- **How can you help the Distribution Community?**
- **How accurate are your options?**
- **What is the cost for the various accuracy expectations?**
- **What is the timing required for implementation?**



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The Effects of Sarbanes – Oxley

- **What don't Operators understand?**
- **What other corporate uses will the data be used for?**
- **How can the data be leveraged for other compliance needs?**
- **What are the consequences and the implications of inaccuracies?**



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Lagniappe

- **Contact information for CATS Managers** (copy attached)
- **Current OPS SW Region Phone List** (copy attached)
- **OPS Web site – <http://ops.dot.gov>**



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Lagniappe

(continued)

- **NPMS WEB Site:**
<http://www.npms.rspa.dot.gov>
- **Docket Management System WEB Site:** **<http://dms.dot.gov>**



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Lagniappe

(continued)

- **The best place to get most recent 49 CFR Parts 190 – 199 and 49 CFR Part 40 (Alcohol & Drug Abuse Regs) is**

www.tsi.dot.gov

- **click on “Pipeline Safety”**
- **click on “Regulatory Information”**
- **click on “Codes”**
- **click on the part you want**



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Thank You!!

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