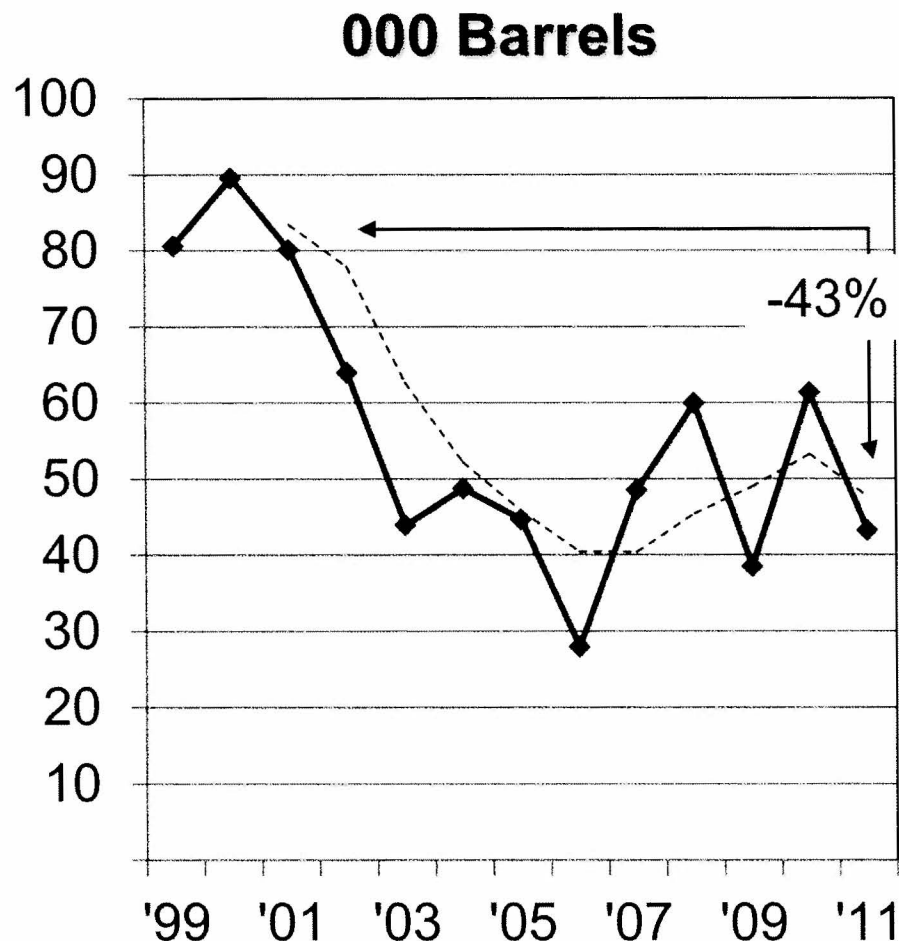
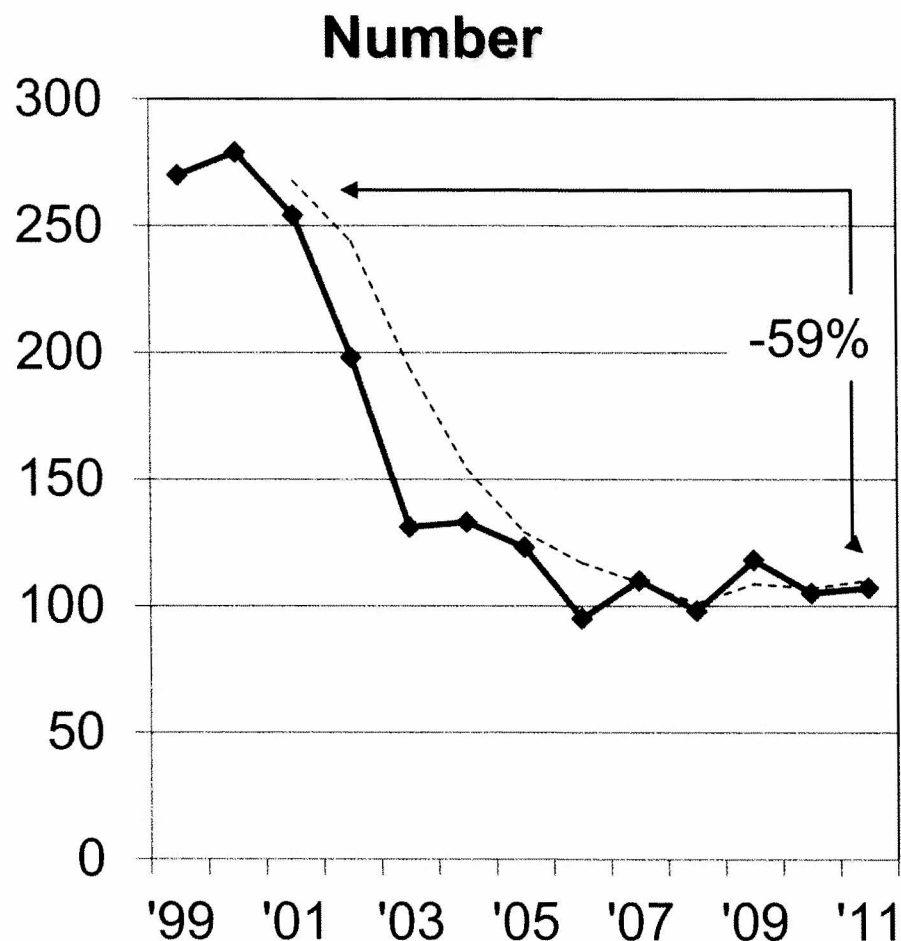


# *Developments in Oil Pipeline Safety*

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**Standards Committee**

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# *Taking Ownership: Progress is Uneven*



Dotted lines are three-year averages

Source: Pipeline Performance Tracking System. Releases from onshore pipe only (no stations or tanks). Excludes unregulated gathering. Percentage decline from 1999-2001 average to 2009-2011 average.

# SERIOUS ABOUT SAFETY

*Our Nation's energy liquid pipeline operators demonstrate they are serious about safety by embracing these safety principles. Making these principles part of our culture is how we act safely every day.*

## AOPL Pipeline Safety Principles

- **Zero Incidents**
- **Organization-Wide Commitment**
- **A Culture of Safety**
- **Continuous Improvement**
- **Learn from Experience**
- **Systems for Success**
- **Employ Technology**
- **Communicate with Stakeholders**

*The Association of Oil Pipe Lines (AOPL) promotes the safe, reliable, and efficient transportation of energy liquids by pipelines, educates the public about the vital role oil pipelines serve in the daily lives of Americans, and advocates the interests of its members.*

**Zero Incidents** – Only with a goal of zero safety incidents can we minimize accidents. Pipeline operators believe that every incident is preventable and work to that high standard.

**Organization-Wide Commitment** – Not only do senior leaders of pipeline companies value safety, but safety is emphasized at every level of the organization from employees who accept personal responsibility for safety to front-line managers who are vital to reinforcing a safety culture and implementing continuous improvement.

**A Culture of Safety** – Pipeline operators embrace the need to provide a workplace culture where safety is an enduring value that all employees share, act upon, learn from, are rewarded for and judged upon.

**Continuous Improvement** – Pipeline operators believe that no matter how safe they already are, they can always improve safety. Vision, commitment, culture, and systems are necessary to improve safety continuously.

**Learn from Experience** – Pipeline operators learn how they can improve safety from their own experiences, and by sharing lessons learned industry-wide with other pipeline operators.

**Systems for Success** – Management systems demonstrate that safety efforts are succeeding by measuring performance, tracking changes and confirming improvements.

**Employ Technology** – Energy liquid pipeline operators are proud of their industry-leading technology. From in-line inspections with diagnostic robots traveling inside pipelines called “smart pigs” to innovative ways to interpret integrity data, operators constantly research and develop new ways to maximize safety.

**Communicate with Stakeholders** – Operators know communicating with the public and stakeholders who value safety, from advocates to the government, is vital to improving safety.

# SAFETY IS A CULTURE

*Safe workers and pipelines don't come from just a safety policy, or safety program, they come from everyone at all levels committed to safety, making decisions based on safety, having the tools, authority and incentives to prioritize safety, and always reviewing, learning, and improving safety.*

**What Is a Safety Culture?** An organization's culture describes how employees behave and perform every day, all day, reflecting the values and attitudes of employees, their shared goals and responsibilities. Management systems may reflect technology or protocols, but culture describes the people, what they believe and how they act.

**Culture Is Vital for Safety** – Every company has a safety policy, and many periodically emphasize safety and training programs, but only a culture of safety maximizes and improves safety over the long term.

## Leaders of a Safety Culture

**Culture** – An organization's leaders reflect a safety culture through their actions, prioritizing safety in decision-making, allocating resources for safe operations, and rewarding safety achievement.

## Managers of a Safety Culture

**Culture** – A safety culture is promoted when supervisors reinforce safe operations and hold employees accountable for safe behavior.

## Systems of a Safety Culture

**Culture** – Management systems provide the mechanism to measure safety performance, learn from experience, and know safety is improving.

## Employees In a Safety Culture

**Culture** – Employees that are personally responsible for safe operations are professionals in a safety culture.

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## Pipeline Operators Instill A Safety Culture

Our nation's pipeline operators reflect their safety culture through their actions. Pipeline leaders show organization-wide commitment by communicating the value of safety and requiring personal responsibility from their employees. They oversee management systems to measure progress toward safety goals and ensure they are learning from experience. Pipeline operators commit resources to safety, the integrity management of their systems and new technologies to improve safety. By demanding continuous safety improvements, pipeline operators foster a safety culture and achieving the goal of zero incidents is always getting closer.