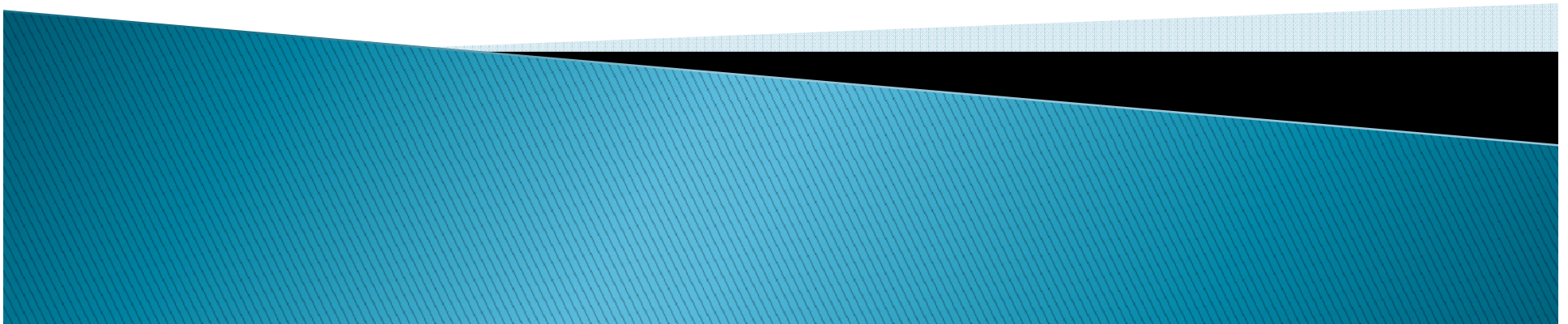


# U. S. Nuclear Regulatory Commission Update on Safety Culture Activities

Diane J. Sieracki  
Senior Safety Culture Program Manager  
NRC, Office of Enforcement  
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# Agenda

- ▶ Why Safety Culture is Important
- ▶ International Safety Culture Activities
- ▶ Safety Culture Policy Statement (SCPS)
  - Outreach and Education
  - Effectiveness Review Survey results
    - Next Steps
- ▶ Ongoing Activities

# Why do we care about safety culture or a culture of safety?

- ▶ Safety culture affects safety performance
  - Injury rates
  - Accident rates
  - Patient safety
- ▶ Results supported across industries
  - Aerospace, healthcare, manufacturing, construction, agriculture, off-shore oil and gas, highway safety, maritime

# Importance of Safety Culture Activities Internationally and with other Regulators

## ▶ International Activities

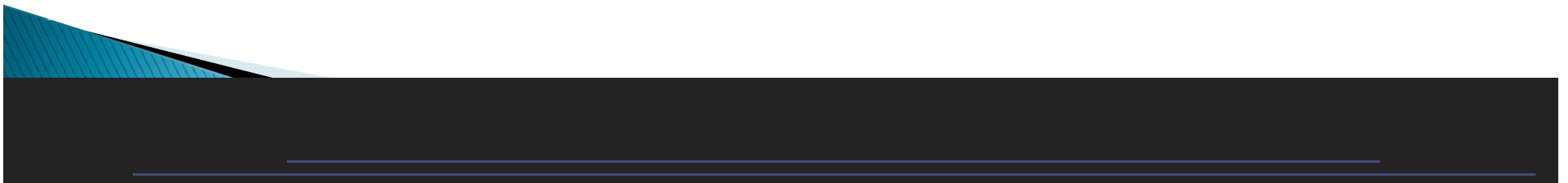
### ◦ IAEA:

- Action Plan for Nuclear Safety
- Development of Technical Documents
- Potential Common Language efforts

### ◦ NEA:

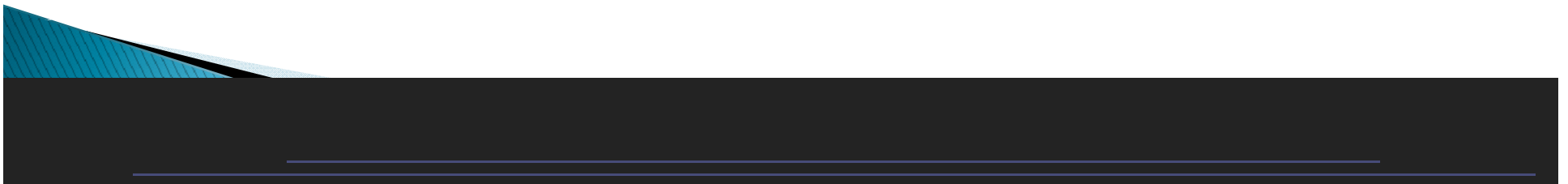
- SC of the Regulator

## ▶ Other U.S. Regulators



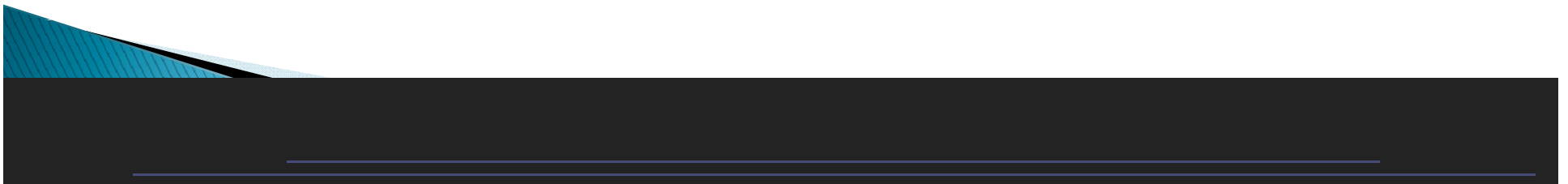
# NRC Approach to Safety Culture

- ▶ Licensees bear primary responsibility for safety
- ▶ NRC's SCPS states safety culture **expectation**, but is not a regulatory requirement
- ▶ NRC considers safety culture within the Reactor Oversight Process (ROP) for nuclear power reactors, the Construction Reactor Oversight Process (cROP) for new nuclear construction and the Fuel Cycle Oversight Process (FCOP) for fuel cycle facilities
- ▶ Alternative Dispute Resolution Process can result in Confirmatory Orders for safety culture activities



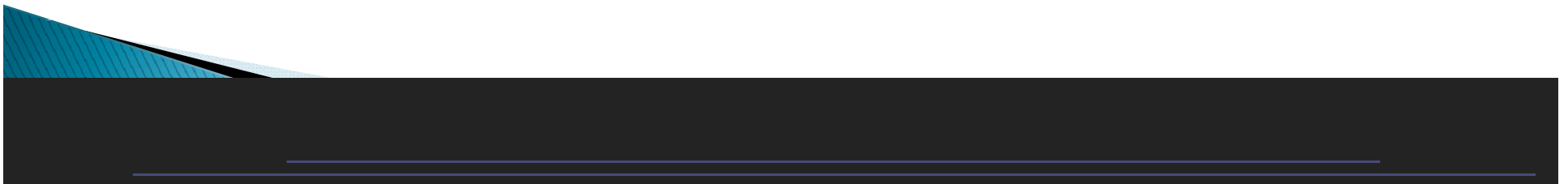
# Safety Culture Policy Statement (SCPS)

Sets forth the Commission's **expectation** that individuals and organizations performing regulated activities establish and maintain a positive safety culture commensurate with the safety and security significance of their actions and the nature and complexity of their organizations and functions



# SCPS Safety Culture Definition

Nuclear Safety Culture is the core values and behaviors resulting from a collective commitment by leaders and individuals to emphasize safety over competing goals to ensure protection of people and the environment.



# SCPS Safety Culture Traits\*

Leadership Safety Values and Actions	Problem Identification and Resolution	Personal Accountability
Leaders demonstrate a commitment to safety in their decisions and behaviors	Issues potentially impacting safety are promptly identified, fully evaluated, and promptly addressed and corrected commensurate with their significance	All individuals take personal responsibility for safety
Work Processes	Continuous Learning	Environment for Raising Concerns
The process of planning and controlling work activities is implemented so that safety is maintained	Opportunities to learn about ways to ensure safety are sought out and implemented	A safety conscious work environment is maintained where personnel feel free to raise safety concerns without fear of retaliation, intimidation, harassment or discrimination
Effective Safety Communications	Respectful Work Environment	Questioning Attitude
Communications maintain a focus on safety	Trust and respect permeate the organization	Individuals avoid complacency and continually challenge existing conditions and activities in order to identify discrepancies that might result in error or inappropriate action

\*Decisionmaking is also included as a trait in the safety culture common language for nuclear power reactors.



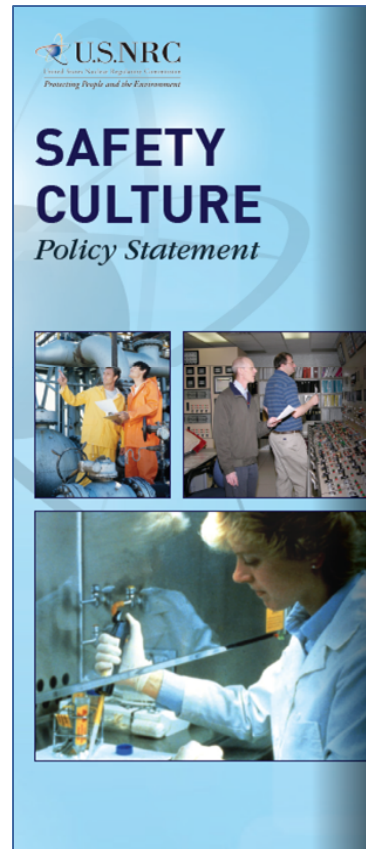
# Commission Direction

- ▶ The staff should continue to engage with all stakeholders to communicate the contents of the policy statement, to educate stakeholders, and to ensure they have the necessary support to effectively employ the policy statement as they deem appropriate (SRM SECY-11-0005, “Proposed Final Safety Culture Policy Statement”).

# Outreach and Education Efforts

- ▶ Interactions with Licensees and External Stakeholders
- ▶ Conferences and Training
- ▶ International involvement
- ▶ Educational Tools
  - Brochures
  - Case Studies
  - Trait Talk
  - Posters and support materials
- ▶ Safety Culture Website

<http://www.nrc.gov/about-nrc/safety-culture.html>



# Outreach Effectiveness Survey

## Background

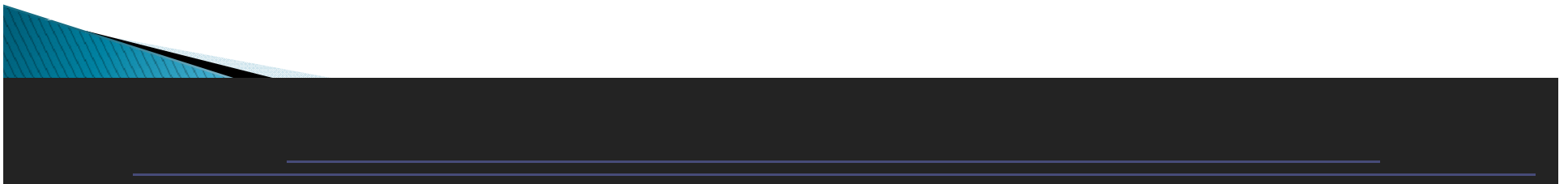
- ▶ The NRC engaged LinkVisum Consulting Group to conduct a survey to:
  - evaluate the effectiveness of outreach on the NRC's SCPS to the NRC materials licenses, and
  - Provide recommendations to improve outreach effectiveness.

# Considerations/Next Steps

- ▶ Report recommendations are currently being evaluated by NRC staff to include:
  - Expand safety culture products and ensure that they are engaging and relevant to wider audience
  - Consider interactive tools, webinars, social media, and on-line training materials and guidance
  - Enhance correspondence and communication plans

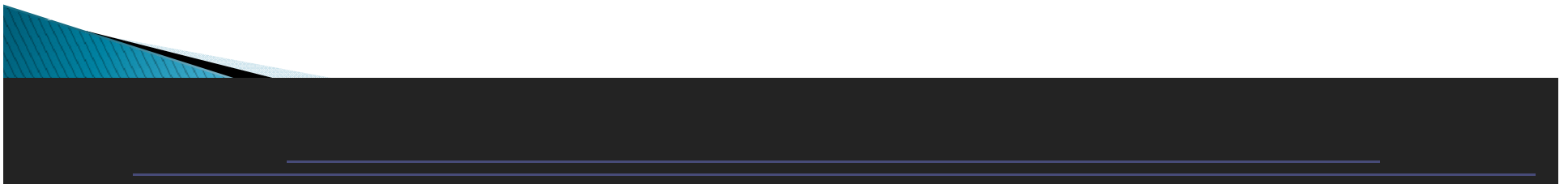
# Ongoing Activities

- ▶ SCPS Outreach and Education
- ▶ International Activities
- ▶ Consideration of internal SC Activities for the NRC
- ▶ Focus on Materials Licensees



# Summary

- ▶ NRC communicates safety culture expectations through the Safety Culture Policy Statement
- ▶ NRC continues outreach and education as this fosters understanding of safety culture and helps disseminate good practices
- ▶ NRC staff continues working with U.S. regulators and the international community



# For More Information:

- ▶ Please visit NRC's safety culture webpage at:  
<http://www.nrc.gov/about-nrc/safety-culture.html>
- ▶ Contact NRC staff via email at:  
[external\\_safety\\_culture.resource@nrc.gov](mailto:external_safety_culture.resource@nrc.gov)

