

The Nuclear Regulatory Commission's Oversight of Safety Culture

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Outline



NRC's definition of nuclear safety culture

- NRC's approach to safety culture
 - Oversight process
 - Event, allegation, or degradation in performance
 - Chilling effect letters

Safety culture concern follow-up

NRC Safety Culture History



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 Operators inattentive and unprofessional while on duty at nuclear power plant

1996

 Commission Policy Statement: Conduct of Nuclear Power Plant Operations

Workers retaliated against for whistleblowing

 Commission Policy Statement: Freedom to Raise Safety Concerns Without Fear of Retaliation

2002

- Davis-Besse reactor head degradation event
- NRC revised Reactor Oversight Process (ROP) to more fully address safety culture

2008

 Commission direction to develop policy statement on safety culture that applies to all licensees

2011

 Final Safety Culture Policy Statement (SCPS) published in the Federal Register



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.

Nuclear 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

Commission's Safety Culture Policy Statement (76 FR 34773; June 14, 2011)

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





- A common language for safety culture was developed in 2013
 - includes 10 traits of a healthy safety culture, 40 attributes (performance characteristics) representing those traits, and numerous examples
- NUREG-2165 was completed in 2014

NRC Approach to Safety Culture



- Licensees bear primary responsibility for safety
- NRC's Safety Culture Policy Statement states safety culture expectations but is not a regulatory requirement
- NRC considers safety culture within oversight processes for research and test reactors
- NRC assessment of safety culture is primarily a result of an event, allegation, or degradation in performance

Event Follow-up



- Inspectors will review the licensee's root cause evaluation to ensure that all safety culture contributors are identified and documented
- If the licensee is issued escalated enforcement and participates in the Alternative Dispute Resolution process, corrective actions associated with safety culture may be included
- All agreed upon corrective actions would be included in a Confirmatory Order and would be inspected

Allegations Follow-up



- If NRC receives allegations at your site stating that employees are hesitant to raise nuclear safety concerns (SCWE), the NRC will follow up
- The NRC may send a Request for Information (RFI) or conduct a follow up inspection
- The RFI may request the licensee employ a third party to evaluate the SCWE concern
- Inspection- qualified safety culture assessors will inspect the SCWE at your site

Safety Conscious Work Environment (SCWE) Issues



- If SCWE concerns are substantiated by the licensee or by the NRC, the licensee will be expected to take adequate corrective actions
- The NRC will monitor the SCWE at the licensee
- If the SCWE is not corrected, the NRC may send the licensee a Chilling Effect Letter

Chilling Effect Letters (CEL)



- A Chilling Effect Letter:
 - Publicly notifies licensee of NRC's concern that employees are hesitant to raise nuclear safety concerns
 - Informs workforce of concern
 - Formally requests information and a response including corrective actions

Safety Culture Policy Statement Educational Tools

- Safety Culture Educational Resource Workbook
 - Trait Talks
 - Case Studies
 - SCPS









TRAIT

- Leadership Safety Values and Actions
- Work Processes
- Questioning Attitude
- Problem Identification and Resolution
- Environment for Raising Concerns
- Effective Safety Communication
- Respectful Work Environment
- Continuous Learning
- Personal Accountability

LICENSEE/COMMUNITY SCENARIO

Power Reactors

Radiography

Medical/Brachytherapy

Power Reactors

Research Reactors

Fuel Cycles

Gauges

Construction

Vendors

Summary



- NRC communicates safety culture expectations through the Safety Culture Policy Statement
- NRC assessment of safety culture is primarily as a result of an event, allegation, or degradation in performance
- NRC may also address safety-conscious work environment concerns through Chilling Effect Letters
- Licensees can learn more about maintaining a healthy safety culture using NRC's educational tools

For More Information



 Please visit NRC's safety culture webpage at: http://www.nrc.gov/about-nrc/safety-culture.html

Or contact NRC staff via email at: NRC.Allegation@nrc.gov