Public Stakeholder Meeting

NRC Safety Culture Initiatives

USNRC

October 26, 2005

Introduction

NRC Safety Culture Initiatives

Michael Johnson, Director
Office of Enforcement
Chair, Safety Culture Steering Committee

Safety Culture Public Meeting
October 26, 2005

Status of Safety Culture Initiatives

Isabelle Schoenfeld
Office of Enforcement
Chair, Safety Culture Working Group

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Activities Since August 2005 Public Meeting

- Developed plan to accomplish work within the scope of SRM-SECY-04-0111 in two-phases
- Developed an approach to enhance the Reactor Oversight Process (ROP) to more fully address safety culture
- Revised Safety Culture Attributes Table based on stakeholder feedback and screening criteria

Activities Since August 2005 (cont)

- Submitted SECY-05-0187 - "Status of Safety Culture Initiatives and Schedule for Near-Term Deliverables" - to the Commission
- Met on two occasions with Senate staff from the Committee on Environment and Public Works and the Subcommittee on Clean Air and Nuclear Safety
- Issued Regulatory Issue Summary (RIS-2005-18) "Guidance Document for Establishing and Maintaining a Safety Conscious Work Environment"

Next Steps

- **Finalize the Safety Culture Attributes Table**
- **Develop and implement Phase 1 activities**
- **Develop and implement Phase 2 activities**

ROP Approach to Safety Culture

Clare Goodman

Office of Nuclear Regulatory Regulation

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Proposed ROP Approach to Safety Culture

- Starting point – Reactor Oversight Process and Safety Culture Attributes Table
- Use the Inspection Program to identify possible Safety Culture influences on "Green" or greater findings
  - Provide guidance to inspectors in developing Safety Culture insights for potential findings
  - Train inspectors
- Potential Inspection Manual Chapter revisions

Proposed ROP Approach to Safety Culture (cont.)

Potential modifications to:

- **Cross-Cutting Areas**
- **Assessment Process**
- **Agency Actions**

Cross-Cutting Issues – Current Approach

Robert Pascarelli

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Identification of Cross-Cutting Aspects - Current Program

- Inspection Manual Chapters routinely revised
- Uses existing findings (i.e. > minor issues)
- Document as cross-cutting aspect and not as a separate finding
- Details are provided for “binning” in preparation for assessment reviews
- Appendix E lists examples
- Cumulative roll-up twice a year

Substantive Cross-Cutting Issues – Current Program

- Criteria in IMC 0305
  - Binning is a tool to evaluate common cause
- Discussed in mid-cycle and annual assessment letters
- Problem identification, human performance, and safety conscious work environment
- NRC may ask for response (verbal at annual public meeting, written response, or separate meeting)
- Re-evaluated at next mid-cycle or annual assessment meeting

Potential Program Changes

- Documentation of Safety Culture insights
- Safety Culture insights can be derived from baseline and/or supplemental inspections
- Cross- cutting attributes become cross-cutting areas
- Cross- cutting elements become “bins”
- Qualitative look across bins
- Changes to assessment program

Looking Forward

- **Feedback on the proposed ROP approach to safety culture**
- **Should attributes become cross-cutting areas?**
- **Should elements become “bins”?**
- **IMC 0305 assessment process changes?**

Safety Culture Attributes Table - Overview

Andrea Kock

Office of Enforcement

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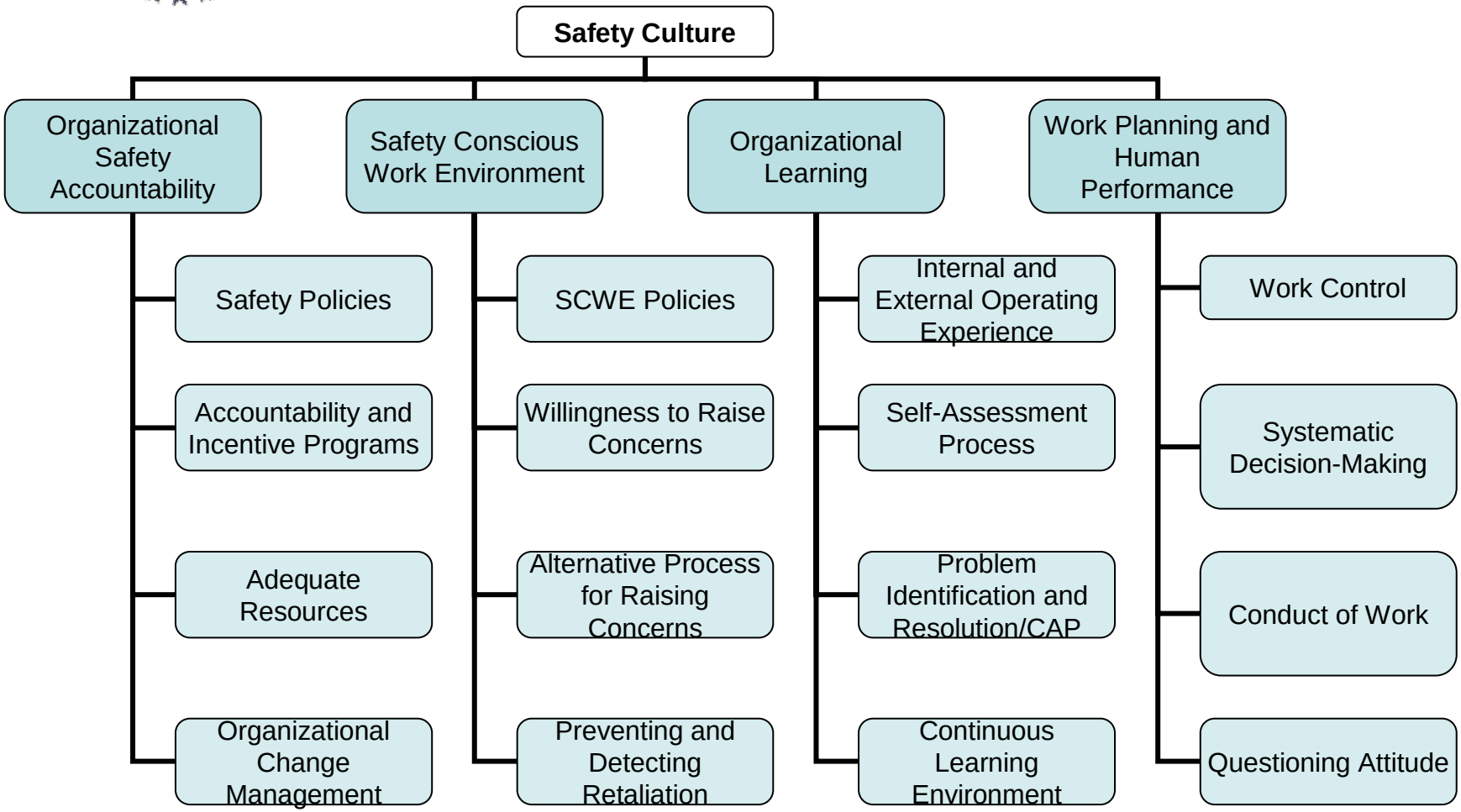
Overview

- Development of the Safety Culture Attributes Table (Table)
- Receipt and resolution of comments
- Screening criteria
- Implementation of the Table
- Solicitation of feedback on the Table

Table Development

- **Developed Table to define important characteristics of safety culture to facilitate the enhancement of the ROP**
- **Identified attributes, elements, and potential inspection information and measures**

Safety Culture Attributes and Elements



Consideration of Stakeholder Comments

- Internal and external stakeholders
- General comments on the Table
  - Measures and measurements
  - Safety Culture Attributes Table
  - Implementation
- Specific comments on Table

Screening Criteria

- Overall: can provide insights into a licensee's safety culture
- Objective
- Predictable*
- Risk-Informed*
- Understandable
- Cannot be manipulated
- No unintended negative consequences
- Within regulatory authority
- Generally applicable
- Readily available
- Can be gathered without a formal survey

Table Implementation

Issues for clarification

- How the table will be implemented
- The relationship of measures to inspection information
- No single piece of information or measure can define Safety Culture
- No set thresholds to define performance
- Measures are not performance indicators

Safety Culture Attributes Table

Feedback Please

Next Stakeholder Meeting

- Date
- Objectives