

WORKING TO BUILD TRUST IN NUCLEAR WASTE REGULATION: Progress in Public Outreach



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Overview

-  Introduction
-  Involving the Public in Rulemaking
-  Need for a New Approach
-  Revised Expectations
-  Longer-term Changes
-  Results, so far

NRC's Mission Depends on Effective Communication

- ✎ NRC is an independent regulator responsible for protecting public health, safety and the environment
- ✎ By law, NRC regulates the U.S. Department of Energy to assure safety of the potential repository at Yucca Mountain
- ✎ NRC uses a public rulemaking process

Inviting Public Comment on New Regulations for Yucca Mountain

- ✍ NRC published proposed regulations for comment (February 1999)
- ✍ Public Meetings in Nevada (March 1999)
 - Local concerns not addressed
 - NRC staff needed more and better preparation
 - Initial meetings did not inspire confidence

The Challenge:

- ✍ NRC's technical staff wants to explain agency actions and listen to public concerns but...
- ✍ To do so, we often must explain complex technical and policy issues in a manner readily understood by the public

Different Communication Styles and Needs

Technical Staff typically

- Work with technical information
- Communicate with other experts
- Use detailed, intricate explanations

Public generally

- May not understand technical details
- Have variety of questions and concerns
- Demand short, common sense explanations

What did NRC do to improve future meetings?

- ✍ Identified lessons from initial meetings
- ✍ Allowed staff more time to prepare
- ✍ Designated a project manager

What else did NRC do?

- ✍ Expert training in risk communication
- ✍ Revamped meeting format
 - Trained facilitator
 - Shorter, plain language presentations
 - Addressed requested topics
 - Anticipated concerns and questions
 - Frequent breaks for questions and dialog
- ✍ Prompt, formal meeting follow-up

How did NRC's HLW staff bring about these changes?

- ✍ HLW Public Outreach Team
- ✍ Revised NRC expectations of interactions with the public
- ✍ Supported longer-term culture changes within NRC as a whole

HLW Public Outreach Team

- ✍ Brings together technical and administrative professionals
- ✍ Meets regularly
- ✍ Defines clear messages
- ✍ Identifies key concepts for “plain language translation”
- ✍ Organizes preparation for public meetings
- ✍ Develops handouts and displays

Performance Assessment: Part of Evaluating the Safety of a Proposed Repository at Yucca Mountain, Nevada

What is Performance Assessment?

- Systematic analysis of what could happen at a repository
- One of many NRC safety requirements

Why use it?

- Complex system
- Systematic way to evaluate data
- Internationally accepted approach



What is assessed?

- What can happen?
- How likely is it?
- What can result?

How is it conducted?

- Collect data
- Develop scientific models
- Develop computer code
- Analyze results

NRC would require DOE's Performance Assessment to

- Provide site and design data
- Describe barriers that isolate waste
- Evaluate features, events, and processes that affect safety
- Provide technical basis for models and parameters
- Account for variability and uncertainty
- Evaluate results from alternative models

Revised NRC Expectations for Public Interactions

- ✍ Improve common understanding of technical and policy topics
- ✍ Enable a more meaningful dialogue
- ✍ Explain, not persuade

Longer-term Changes

-  HLW Communication Plan
-  More Coordination Between NRC Offices
-  International Forums
-  Commitment of staff and resources

Agency-Wide Focus

-  Communication Plans
-  Task Force on External Communications
-  NRC Director of Communications
-  Agency “Guidelines for External Risk Communication” (NUREG/BR-0308)

Results, so far, are encouraging

- ✍️ New approach successful at 29 meetings
- ✍️ Positive feedback from local officials
- ✍️ Many informed comments from wide array of stakeholders on NRC proposals
- ✍️ Requests from public for more meetings