

# Nuclear Procurement Issues Committee

## Dry Storage Quality Group

### Informational Meeting With USNRC

January 25, 2001

# AGENDA

- Introduction - Alan Nelson, NEI
- NUPIC Overview - Sherry Grier, NUPIC Secretary/Treasurer, Duke Power Co.
  - Membership
  - Structure
  - Committees & Working Groups
  - Mission & Objectives
- DSQG Overview
  - What is DSQG - Chris Lloyd, DSQG Chairman, YAEC
  - Phase I & II (System Design & Fabrication) - Jim Gill, NMC
  - Phase III (Site Implementation) - Dave Morse, Consumers Energy & Ed Martin, Sargent & Lundy
- Open Discussion

# NUPIC Overview

Sherry Grier, NUPIC Secretary/Treasurer  
Duke Power Company

# NUPIC Overview

## Membership

- All Domestic Nuclear Utilities
  - Approximately 44 members
    - 40 with operational reactor sites
    - 4 with possession only licenses
- Six International Member
  - Brazil
  - Canada
  - Mexico
  - Slovenia
  - Spain
  - Sweden

# NUPIC Overview

## Structure

- Memorandum of Understanding
- Charter
- Steering Committee
  - Chairman
  - Vice Chairman
  - Secretary/Treasurer
  - 4 Regional Representatives (Regions align with NRC defined regions)
- Periodic Meetings (3 times a year)

# NUPIC Overview

## Committees & Working Groups

- Audit Committee
- Survey Committee
- Vendor Interface Committee
- Nuclear Fuels Committee
- Database Committee
- Dry Cask Storage Working Group
- Other ad hoc or standing committees and working groups established as necessary

# NUPIC Overview

## Mission & Objectives

- Mission Statement
  - The NUPIC Organization will strive to improve the supplier assurance process through cooperative efforts while minimizing utility O&M costs and improving plant performance.

# NUPIC Overview

## Mission & Objectives (Continued)

- Objectives
  - To Provide a Cooperative Program for the Evaluation of Supplier Performance
    - Coordinate Joint Audits/Surveys
    - Share Audit/Survey Reports with Members
    - Monitor Supplier Performance
  - To Provide a Forum for Discussion of Procurement QA Issues
    - Exchange Performance Information
    - Discuss Issues Relative to Regulatory Guidance and Requirements
    - Assist Suppliers in Resolving Industry Concerns

# NUPIC Overview

## Mission & Objectives (Continued)

- To Provide an Interface on Procurement QA Activities & Issues
  - Maintain interface with Industry Groups
  - Interface with NEI to coordinate communications and dialog with NRC
  - Maintain an interface with NEI for communicating industry positions regarding procurement quality assurance issues.

# DSQG Overview

Chris Lloyd, DSQG Chairman, Yankee Atomic

Jim Gill, Nuclear Management Company (NMC)

Dave Morse, Consumers Energy Company

Ed Martin, Sargent & Lundy

# DSQG Overview

## What is DSQG?

- DSQG - Dry Cask Storage Quality Group
- Formed in early 1998 in response to increasing quality concerns with the design and fabrication of Dry Cask Storage Systems
- Membership - all interested parties
  - Utilities
  - System Designers
  - System/Component Fabricators
- Periodic Meetings (twice a year)
- Became a recognized working group under the NUPIC umbrella in mid 1999

# DSQG Overview

## What is DSQG? (Continued)

- DSQG Purpose
  - Provide an open forum for the discussion of any issue relative to Dry Cask Storage Systems
  - Provide a forum to disseminate “Lessons Learned”
  - Coordinate system owner audits
  - Standardize and improve the audit process
- Three Phase Process Established During Early Meetings
  - Phase I - System Design
  - Phase II - System Fabrication
  - Phase III - Site Implementation

# DSQG Overview

## Phase I & II

- Developed and implemented an audit checklist based on Part 71/72 criteria and Lessons Learned (Revision Pending)
- Developed audit team guidelines to support checklist usage
- Completed Initial Audits of System Designers in 1998/99
- Most Fabricators Audited

# DSQG Overview

## Phase I & II (Continued)

- Results To Date
  - Improvements noted with Designer/Fabricator Quality Program controls and implementation
  - Improvements noted with Designer/Fabricator oversight programs and processes
  - Improvements noted with the thoroughness and consistency of Industry Audits
  - Improved information sharing and dissemination of Lessons Learned

# DSQG Overview

## Phase III

- Phase III Working Group Established in Fall 2000
- Working Group Goal - To Develop an Oversight Tool that may be used for Site Implementation of the Dry Storage Option
- Focus Areas
  - Preparation
  - Design
  - Construction
  - Component Acceptance
  - Dry Run/Pre-Operational Testing
  - Operations & Maintenance
- Capture Industry “Lessons Learned”

# DSQG Overview

## Phase III (Continued)

- Multi-Purpose Checklist Envisioned
  - Internal Utility Audits
  - Management Evaluations
  - Self-Assessments
  - User Group Evaluations
- Non-Traditional NUPIC Application
  - Evaluation of Non-Supplier QA Program Controls
  - Multi-Utility Audit Team Members Not Required
  - Results for Internal Use

# DSQG Overview

## Phase III (Continued)

- Audit/Evaluation Example - Preparation
  - Project Organization
  - Conceptual Design (site and plant)
  - Licensing
  - Quality Assurance Program/Administrative Controls
  - Vendor Selection

# DSQG Overview

## Phase III (Continued)

- Audit/Evaluation Example - Dry Run/Pre-Operational Testing
  - Procedures
  - Personnel Qualifications
  - Equipment (real, prototype, mockups)
  - Canister
    - Moves
    - Loading
    - Vacuum drying
    - Welding
    - NDE
    - Decontamination

# DSQG Overview

## Phase III (Continued)

- Other Checklist Topics
  - Design
  - Construction (Concrete Cask)
  - Component Acceptance
  - Operations
  - Maintenance

# DSQG Overview

## Phase III (Continued)

- Working Group Schedule
  - Define Checklist Topics & Sections 10/00
  - Develop Draft Checklist For Each Section 01/01
  - Develop Audit Team Guidance Document 03/01
  - Utility Technical/Licensing Review 04/01
  - Dry Run All Checklists 05/01 - 10/01
  - Finalize Checklists And Guidance Document 11/01