

Dry Fuel Storage Update



NRC Presentation

March 7, 2001

Presentation Topics

- ♦ **2000 Accomplishments**
- ♦ **Spent fuel pool capacity**
- ♦ **Project schedule**
- ♦ **Licensing issues**
- ♦ **ISFSI preparations**
- ♦ **Heavy Load movement**
- ♦ **UMS fabrication**
- ♦ **Other issues**

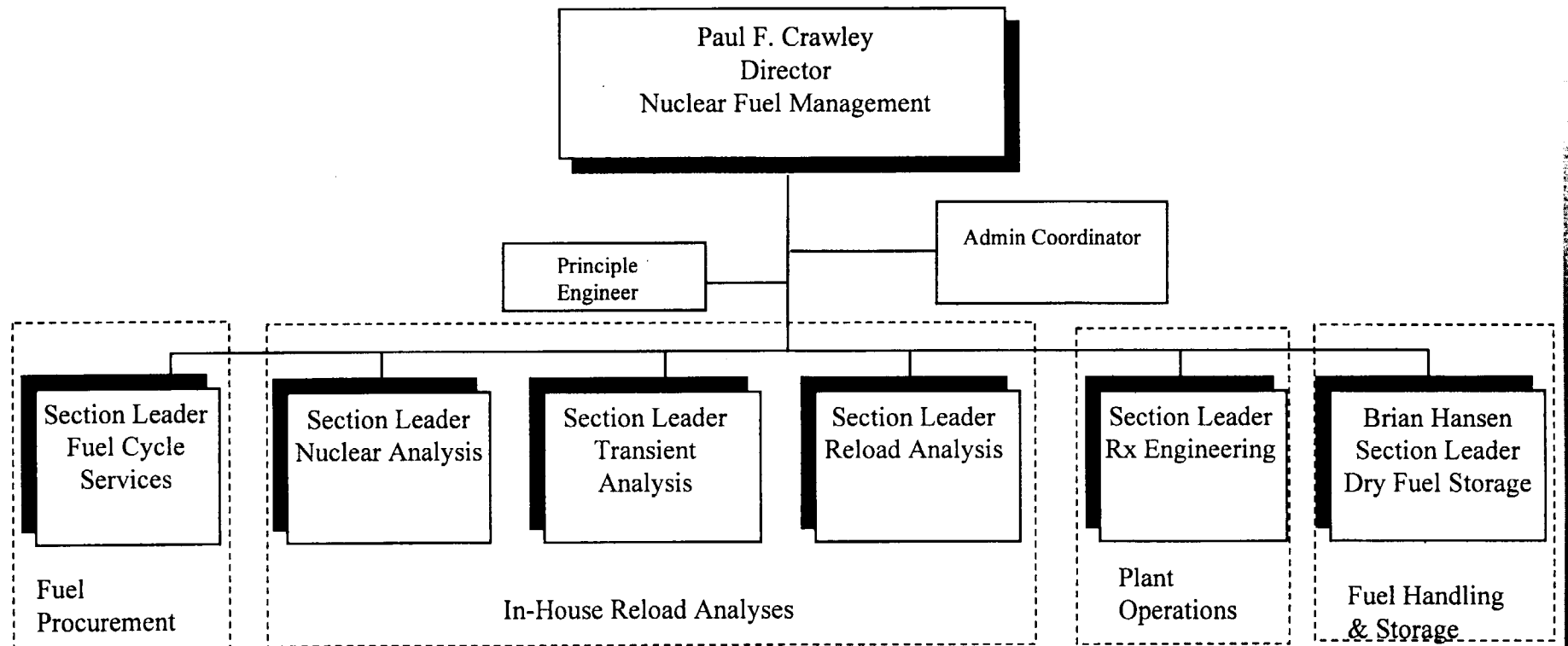


2000 Accomplishments

- ♦ **ISFSI design work**
- ♦ **NAC UMS CoC & Amendment 1 issued**
- ♦ **Crane test in Unit 2**
- ♦ **Unit 1 gate seal**
- ♦ **Soluble boron credit received**
- ♦ **NFM Organization changes**
- ♦ **Transporter ordered**
- ♦ **Canister fabricator selected**



NFM Org Chart



Spent Fuel Pool Capacity

- ♦ Loss of full core offload reserve
- ♦ Unit 1 Spring 2004
- ♦ Unit 2 Fall 2003
- ♦ Unit 3 Fall 2004
- ♦ Possible pool capacity expansion if needed



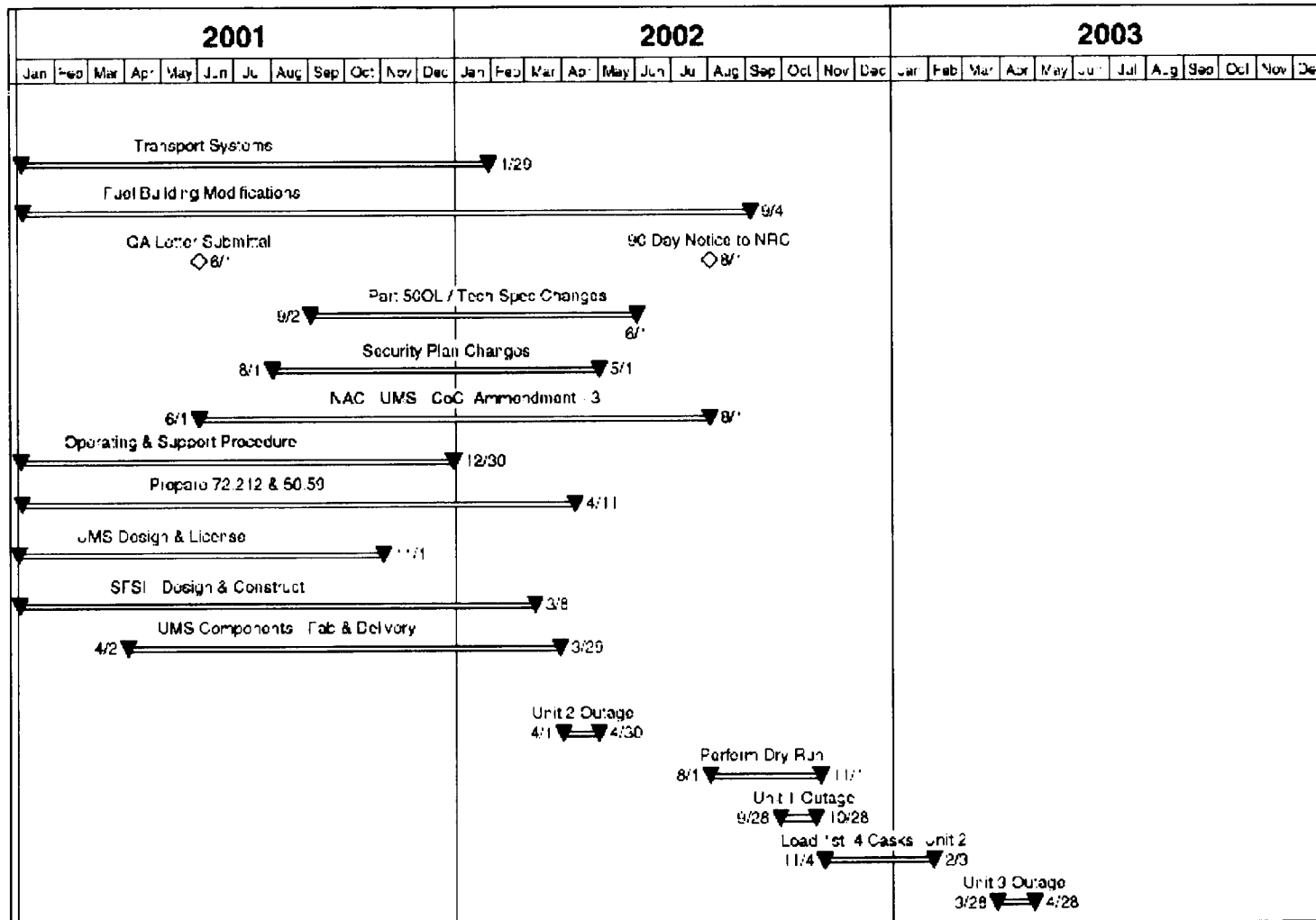
Project Schedule

- ♦ **ISFSI Design complete 3/31/01**
- ♦ **ISFSI Construction starts 9/1/01**
- ♦ **ISFSI Construction complete 3/31/02**
- ♦ **First Canister delivery 1/15/02**
- ♦ **Concrete Cask fabrication 3/31/02**
- ♦ **Dry runs 8/1/02**
- ♦ **Load First system 11/4/02**

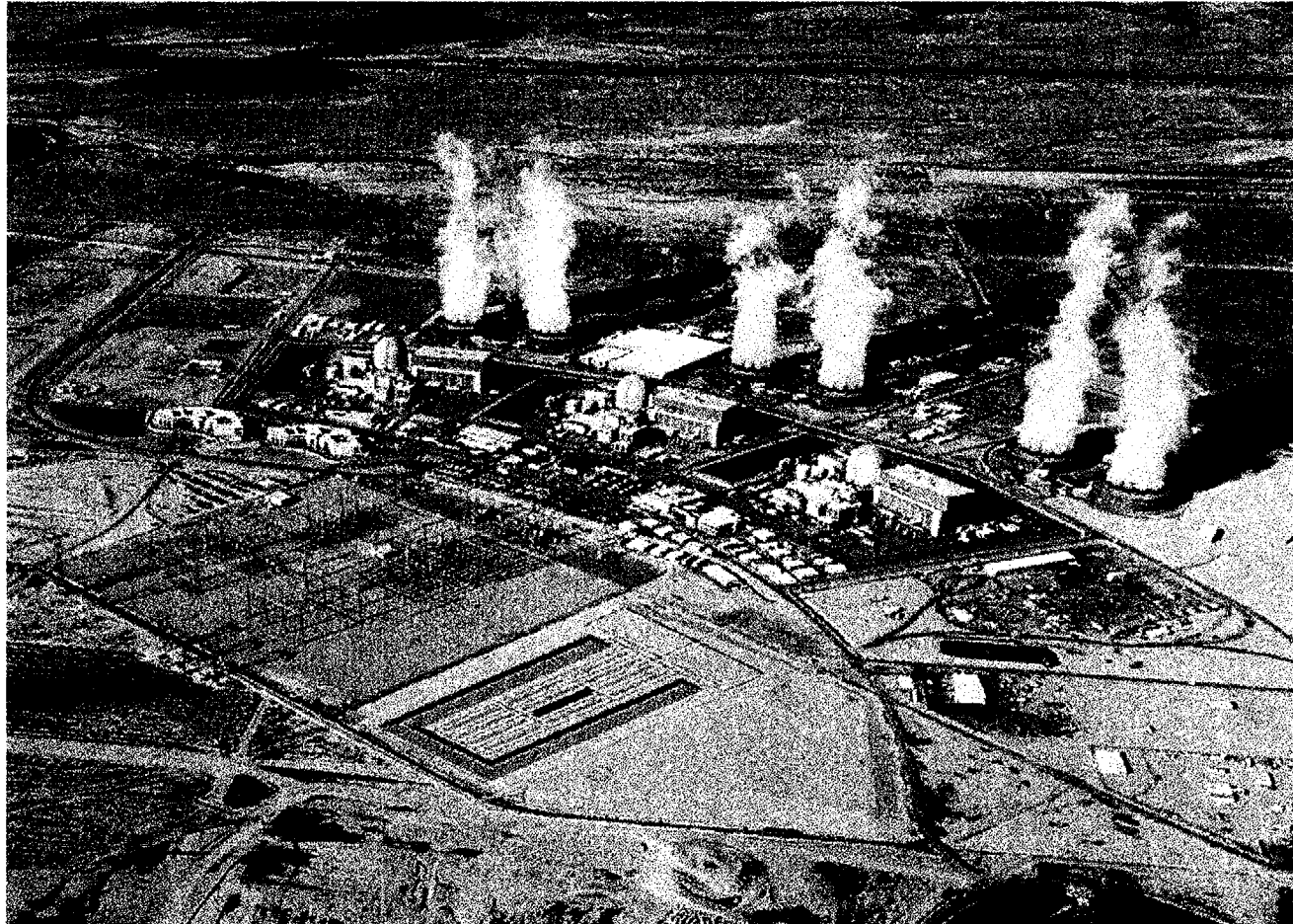


Dry Fuel Storage Summary Schedule

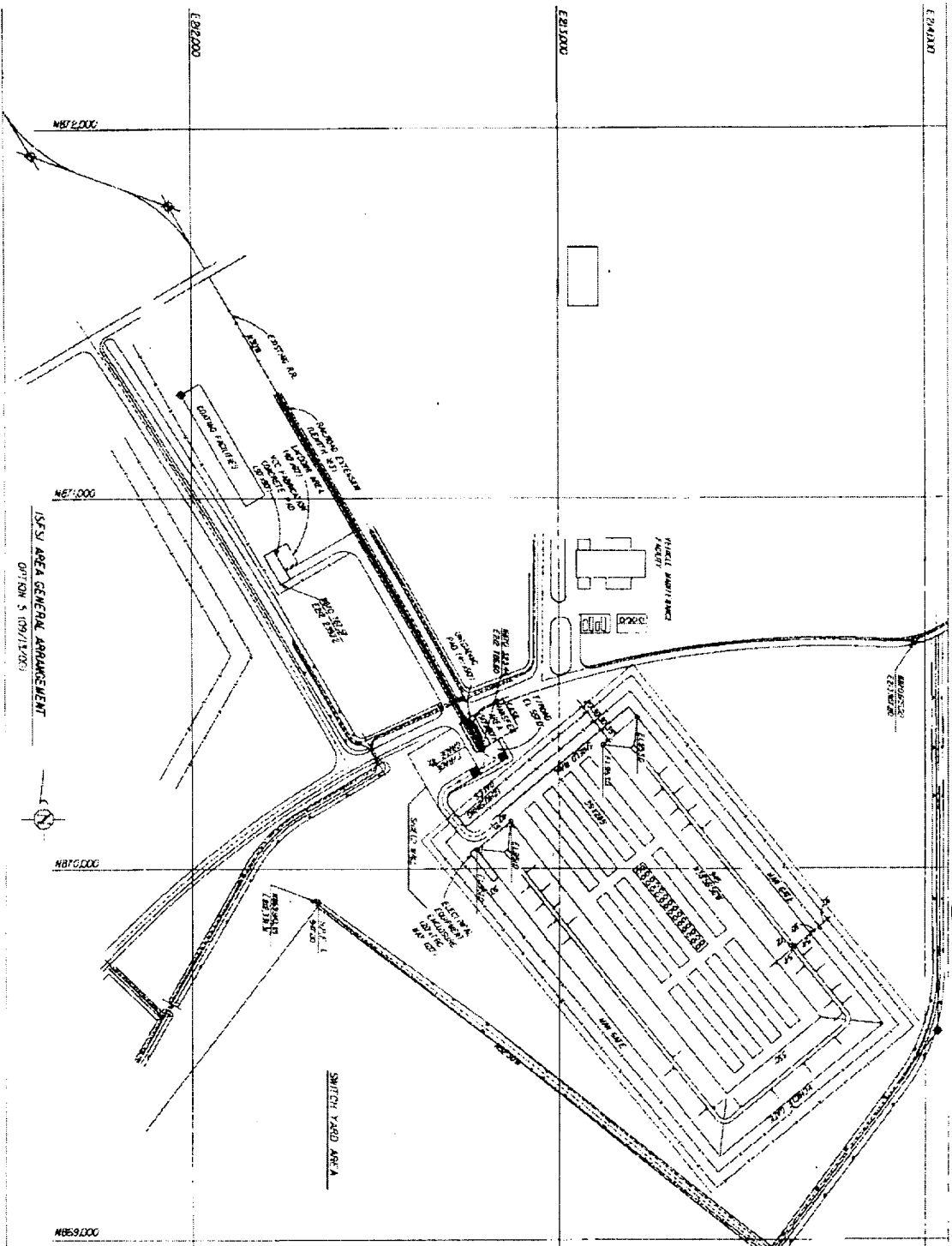
3/2/01



ISFSI Location

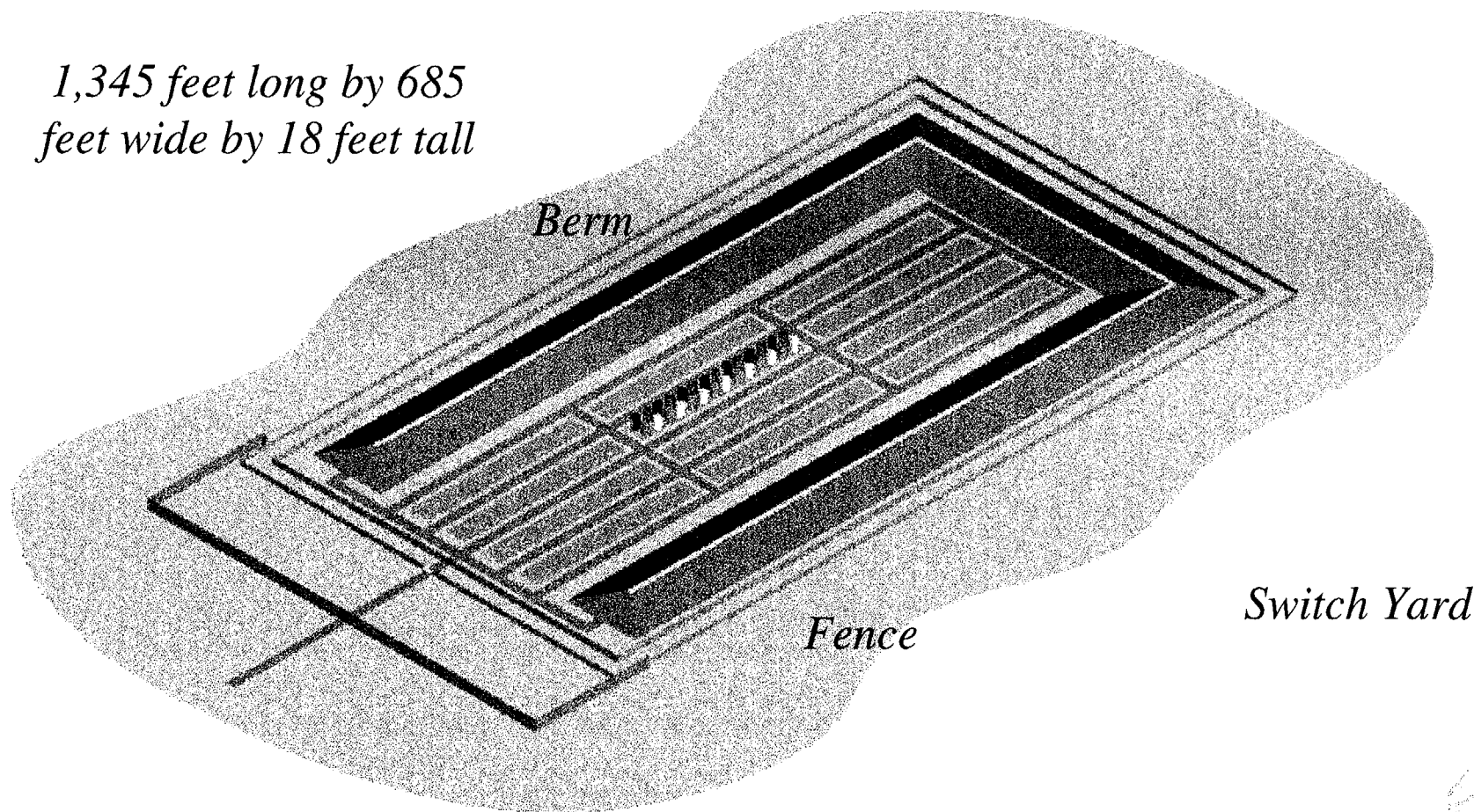


ISFSI Design



ISFSI Layout

*1,345 feet long by 685
feet wide by 18 feet tall*



Units



Licensing Actions

- ♦ **72.212 Evaluations**
 - **Expect to complete by 12/31/01**
- ♦ **QA letter submittal expected by 6/1/01**
- ♦ **Part 50 OL/Tech Spec Changes**
 - **Fuel movement applicability**
 - **Heavy load movement**
 - **Submittal 9/1/01, approval 6/1/02**



Licensing Actions cont.

- ♦ **Security plan changes**
 - **73.55 (c)(5) lighting deviation**
 - **submittal 8/1/01, approval 5/1/02**
- ♦ **Exemption from 72.72(d) for fuel records**
 - **Submit 2/1/02, approval 8/1/02**
 - **Rulemaking needed**



Licensing Actions cont.

- ♦ **90 day letter submittal expected 8/1/02**
- ♦ **NAC UMS CoC Amendment 3**
 - **Submittal 5/30/01, approval 8/1/02**
 - **Water cooling of canister in lieu of forced air**



Operations Preparations

- ♦ **Cask loading process being refined**
- ♦ **Observe Maine Yankee dry runs and fuel loading in 2001**
- ♦ **Process evaluation using DSQG phase III checklist**



Heavy Loads

- ♦ **Inside Fuel Building**
 - **Crane strategy**
- ♦ **Movement of Casks to ISFSI**
 - **Rail car and transporter**
- ♦ **NUREG 0612 & NRCB 96-02 evaluation**
- ♦ **50.59 evaluation**



APS ISFSI QA Plan

- ♦ **Component fabrication oversight**
 - **Canisters**
 - **Transfer cask and auxiliary equip.**
 - **Concrete cask components**
- ♦ **ISFSI design & construction oversight**
- ♦ **Canister loading**



Fabrication of UMS Systems

- ◆ **UMS CoC received 11/20/00**
- ◆ **Fabrication planning**
 - **APS authorized NAC to fab canisters at Ionics**
 - **Expect Fabrication to start 6/1/01**
- ◆ **Ionics NRC inspection scheduled 3/12/01**
- ◆ **1st Maine Yankee systems fabricated**



Fabrication Oversight

- ◆ **APS personnel**

- Oversight of NAC, fabricators, QA contractors

- ◆ **Contracted QA**

- Share experienced resources with Maine Yankee for full time shop coverage of Ionics

- ◆ **NAC QA oversight coverage of Ionics**

- Dedicated fabrication manager



Other Issues

- ♦ **Standard cask technical specifications**
- ♦ **Enhancements to UMS tech specs for lessons learned**
- ♦ **Part 72 CoC process changes**
- ♦ **Advanced UMS licensing**
- ♦ **UMS Licensing for high burnup fuel**
 - **Requested by 2008 for PVNGS**

