

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

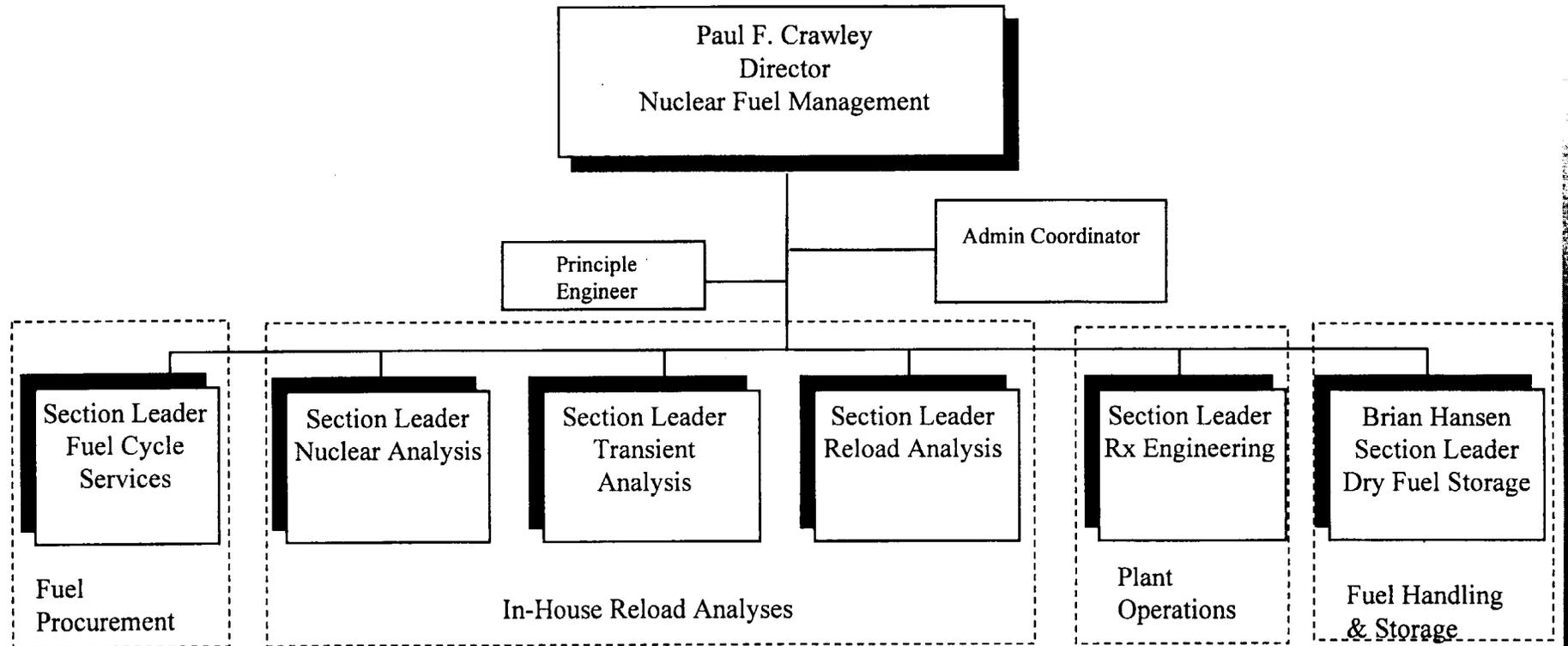


2000 Accomplishments

- ◆ 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**



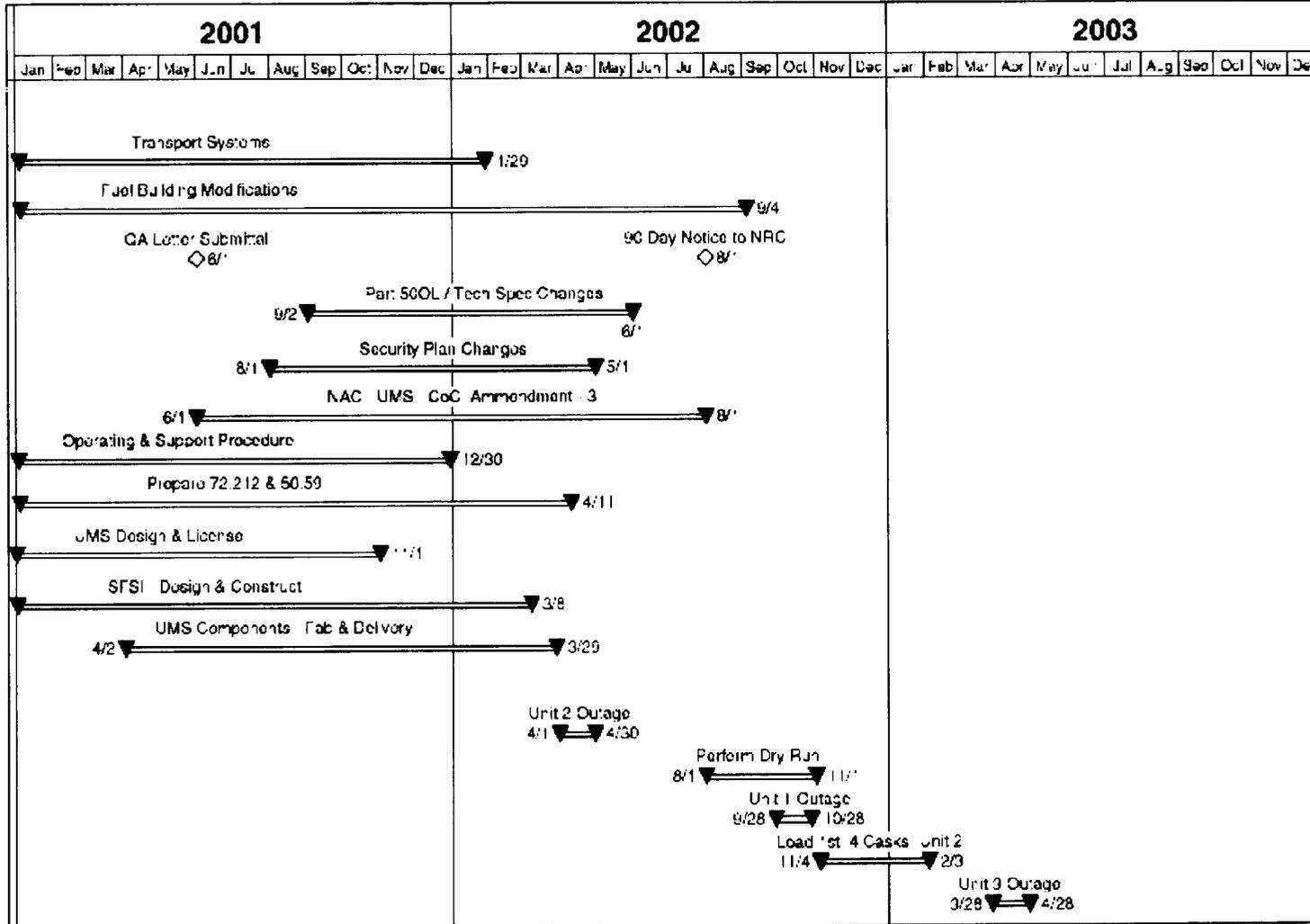
Project Schedule

- ◆ 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

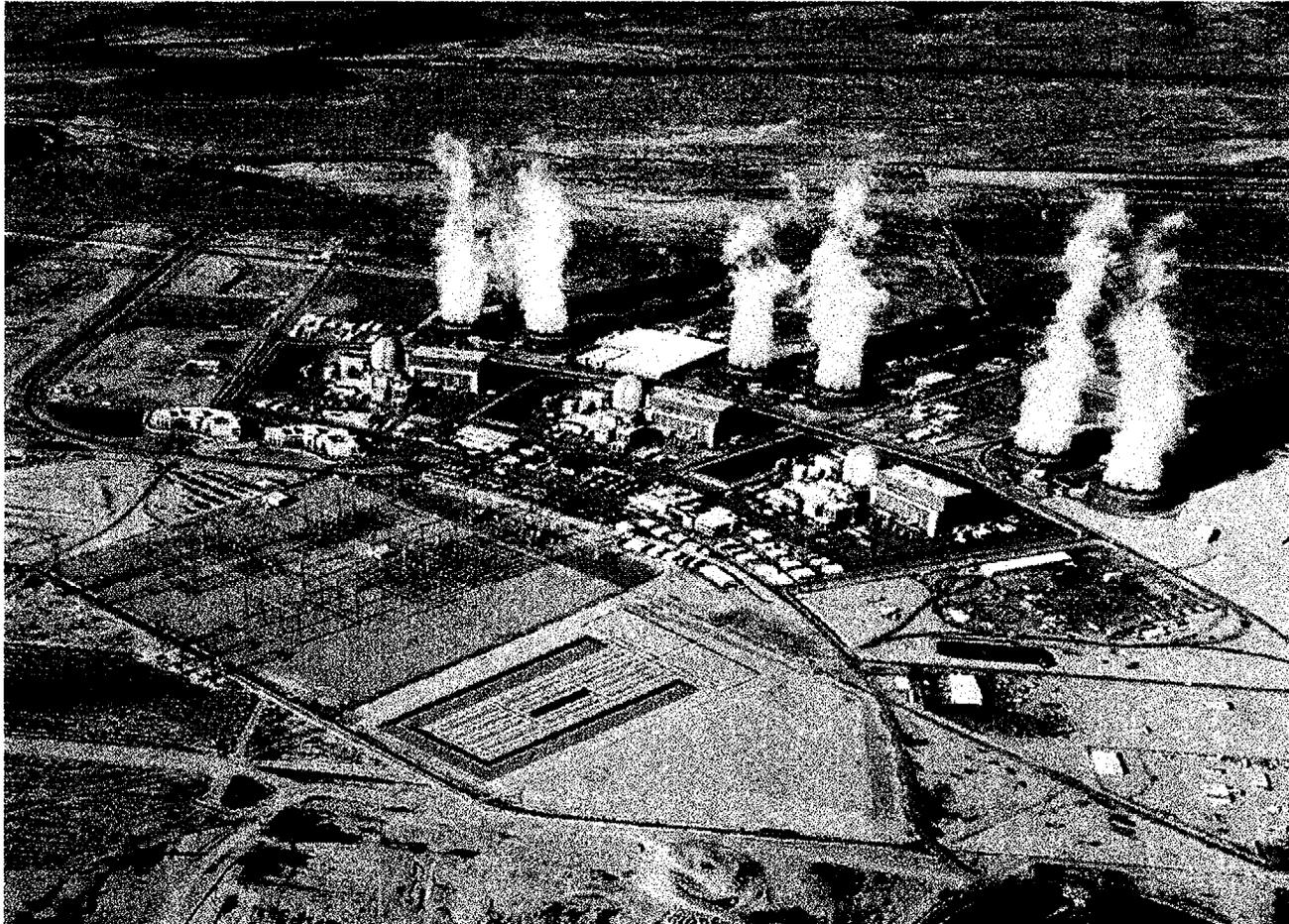


Dry Fuel Storage Summary Schedule

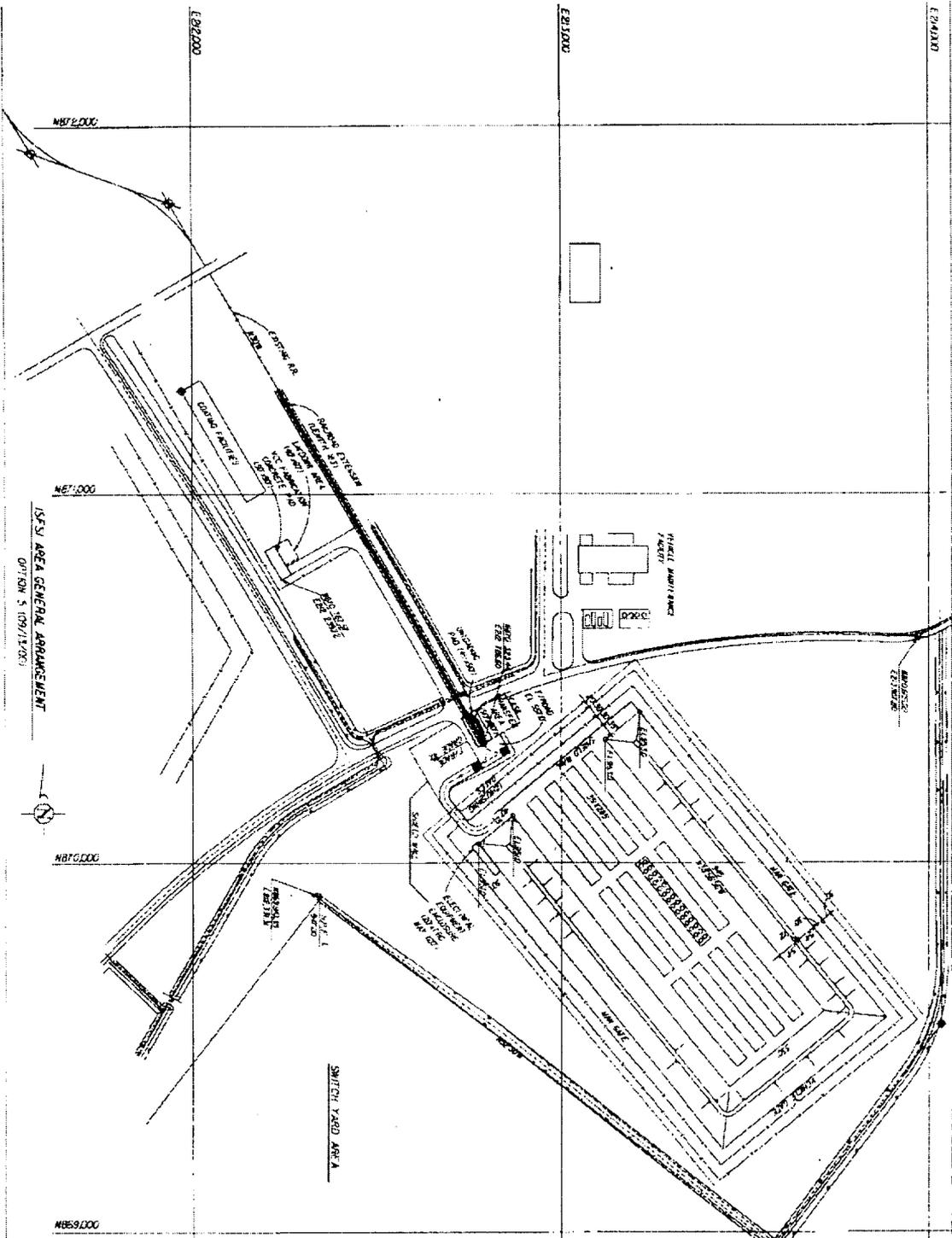
3/2/01



ISFSI Location

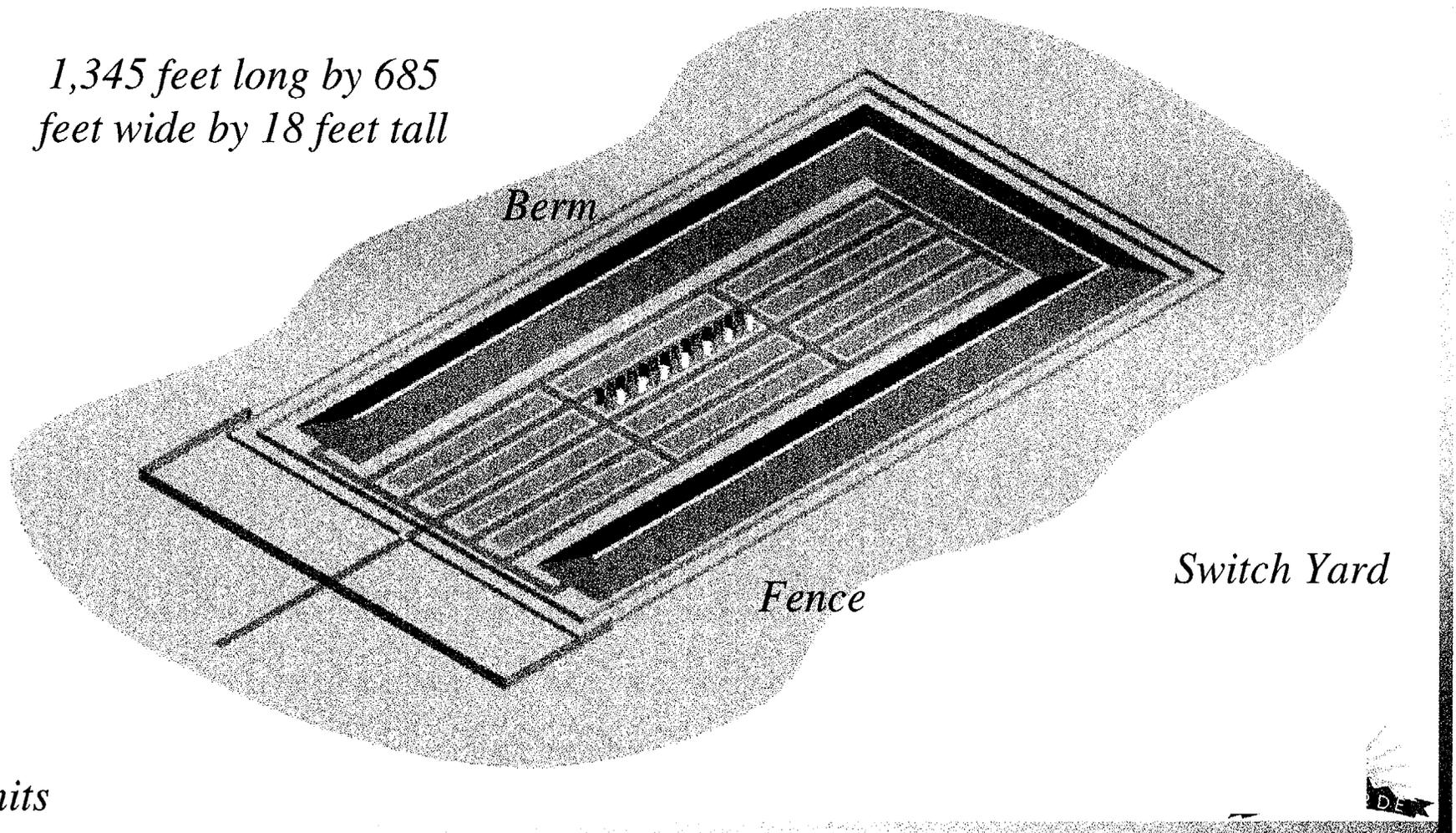


ISFSI Design



ISFSI Layout

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



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**

