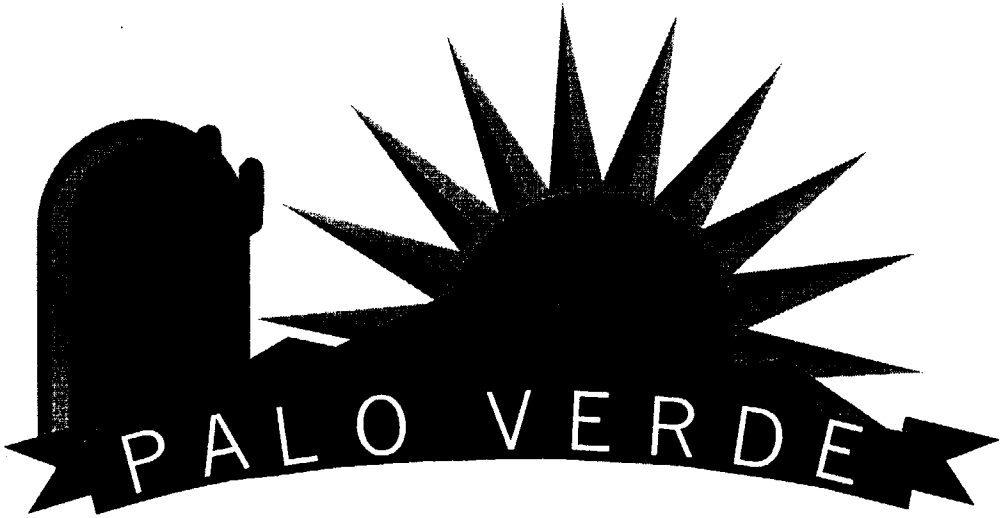
Dry Fuel Storage Update



NRC Presentation

March 7, 2001

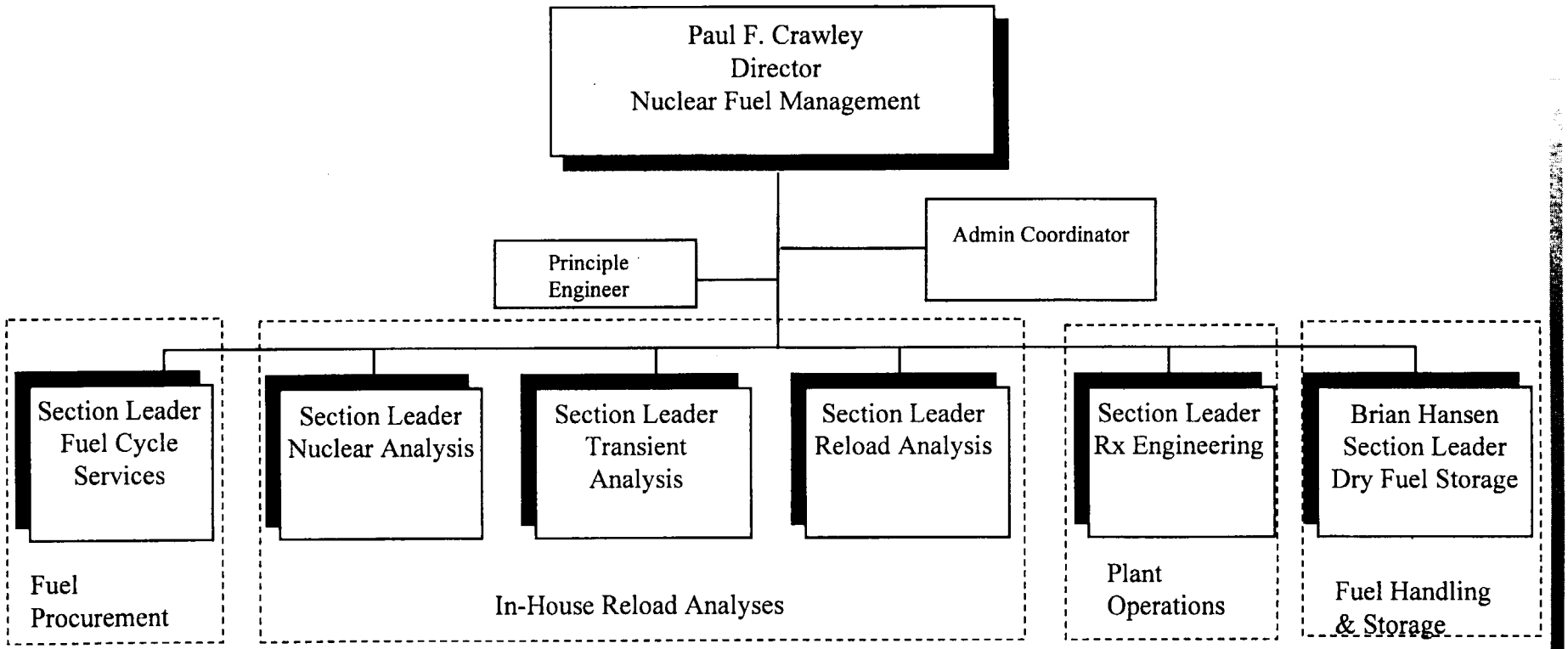
Presentation Topics

- 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

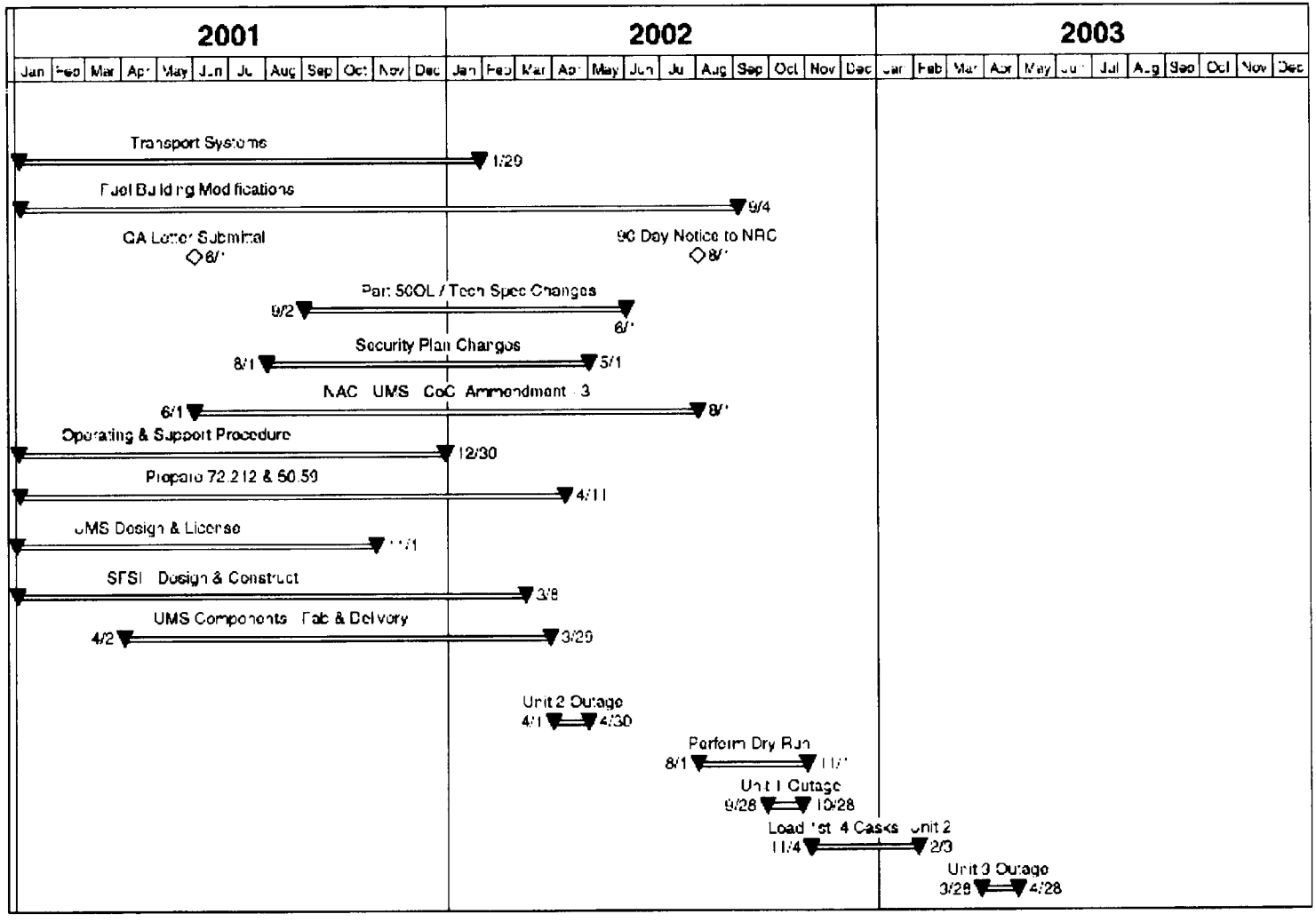
- Loss of full core offload reserve
- Unit 1 Spring 2004
- Unit 2 Fall 2003
- Unit 3 Fall 2004
- Possible pool capacity expansion if needed

Project Schedule

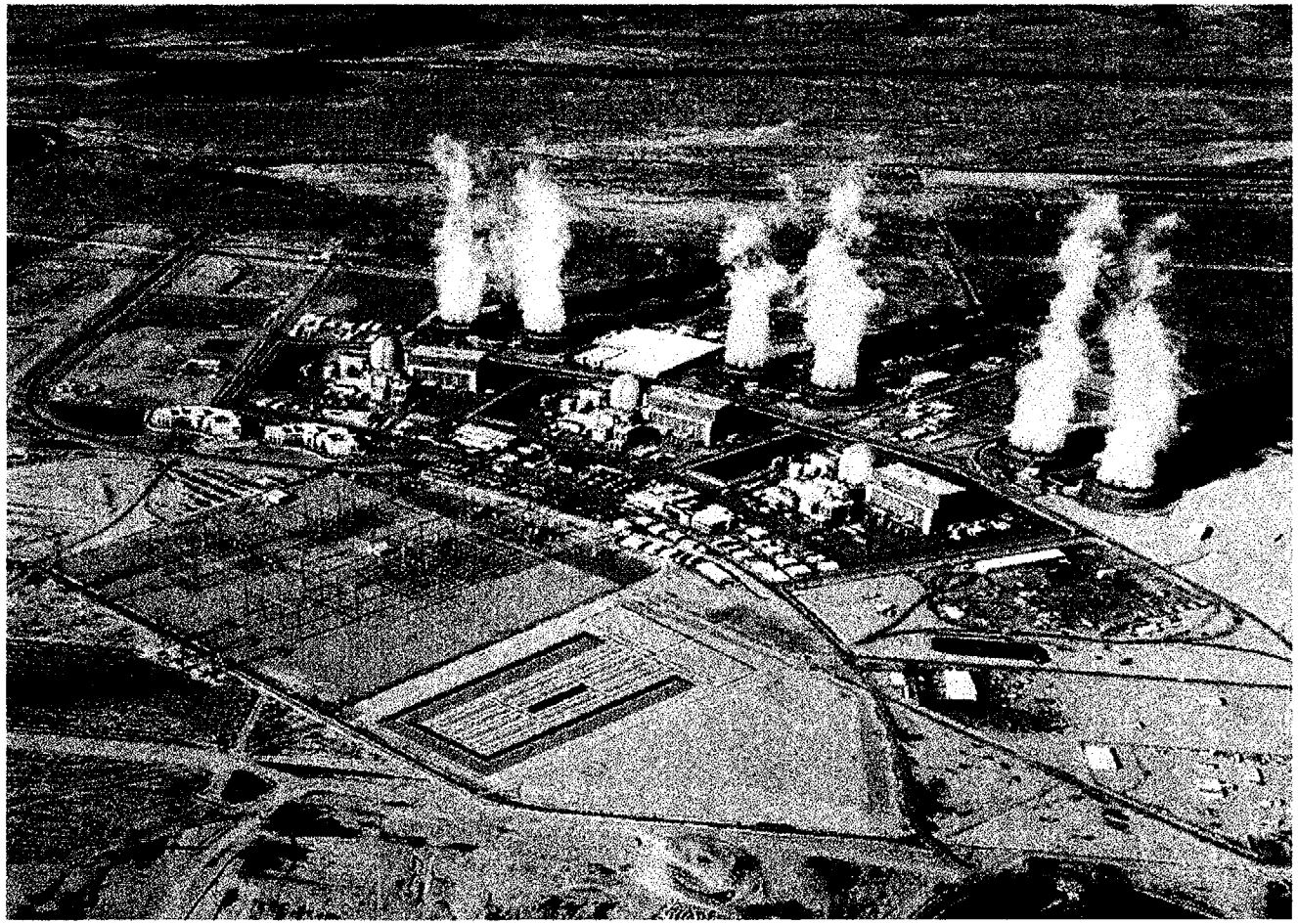
- ISFSI Design complete 3/31/01
- ISFSI Construction starts 9/1/01
- ISFSI Construction complete 3/31/02
- First Canister delivery 1/15/02
- Concrete Cask fabrication 3/31/02
- Dry runs 8/1/02
- Load First system 11/4/02

Dry Fuel Storage Summary Schedule

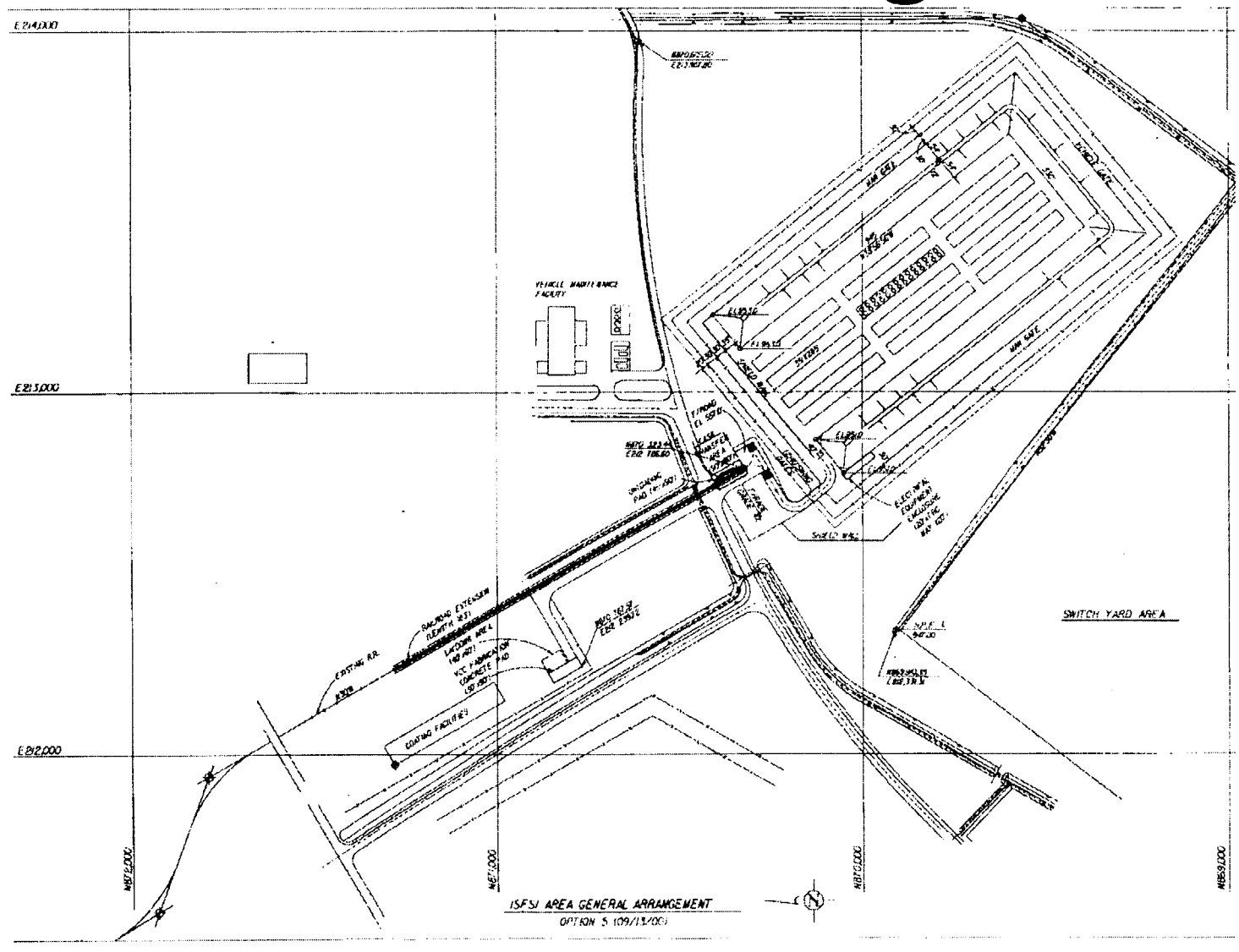
3/2/01



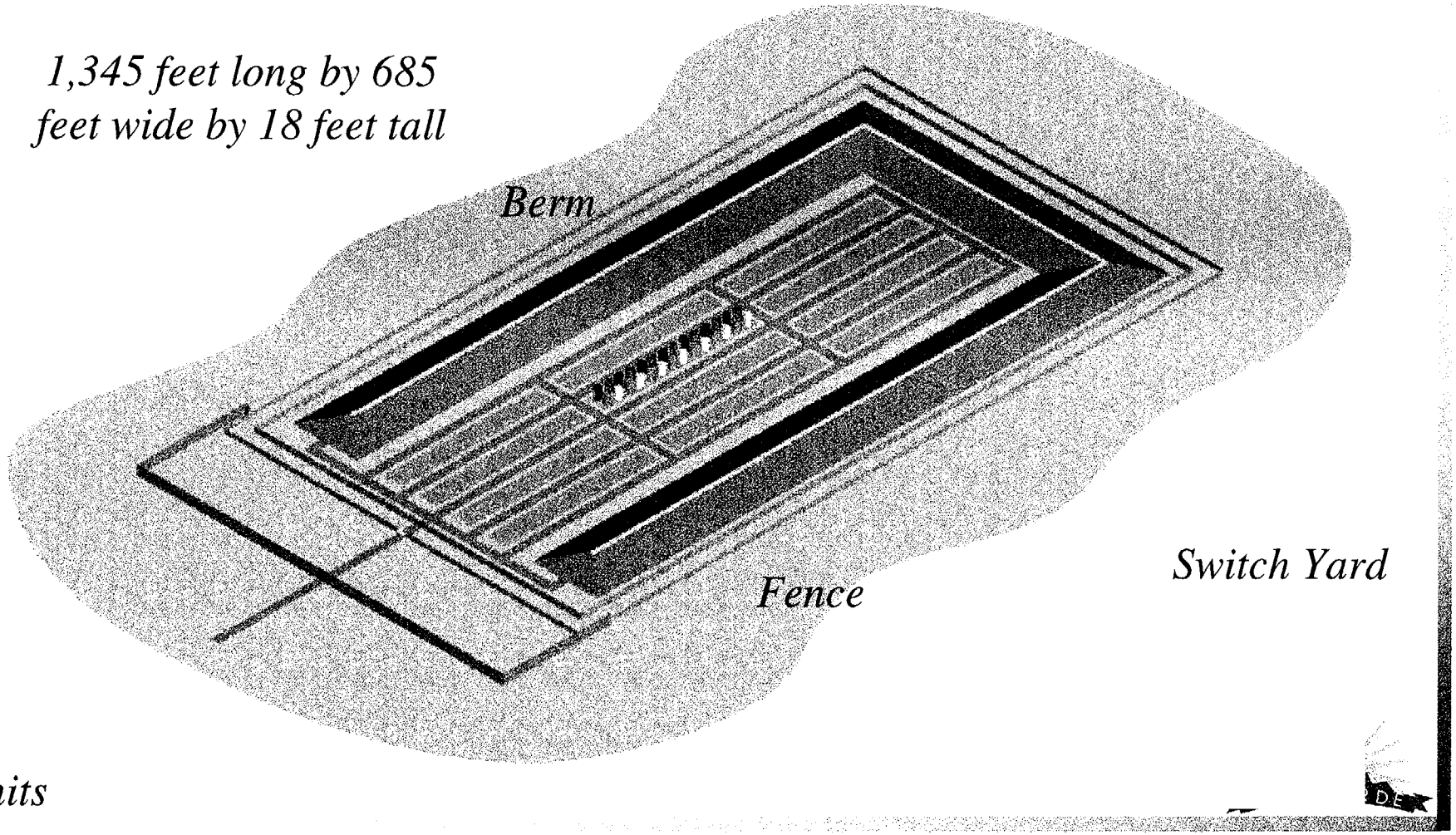
ISFSI Location



ISFSI Design



ISFSI Layout



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