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BMR
& Future Reactors
Folder*

FUTURE LICENSING AND INSPECTION READINESS ASSESSMENT

Presentation to the Commission

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E/IS

Overview

**February 13, 2001 Staff Requirements
Memorandum**

**Future Licensing and Inspection Readiness
Assessment**

Staffing

Policy Issues

Regulatory Infrastructure

Current Activities

Challenges and Summary

February 13, 2001 Staff Requirements Memorandum (SRM)

- **Assess technical, licensing and inspection capabilities**
- **Assess the regulatory infrastructure supporting Parts 50 and 52**
- **Integrate tasks with various related activities**

Future Licensing and Inspection Readiness Assessment (FLIRA)

- **Postulated scenarios, review durations,
resource estimates**
- **Critical skills needed**
- **Necessary interfaces**
- **Recommendations and necessary follow-on
activities**

Staffing

- **Current staffing (FLO, NRR; ARG, RES; SPB, NMSS)**
- **Proposed establishment of New Reactor Licensing Project Office**
- **Technical staff**

Policy Issues

Merchant Plants

- **Decommissioning funding assurance**
- **Antitrust reviews**
- **Financial qualifications**

Policy Issues (continued)

Modular

- **Price-Anderson protection**
- **Number of licenses**
- **Operator staffing**
- **NRC annual fees**

Policy Issues (continued)

Non-LWR

- **Decommissioning funding formula**
- **Uranium fuel cycle for gas reactors**

Current Activities

- **Early Site Permits**
- **Construction Inspection Program**
- **Rulemaking**
- **Stakeholder Interaction**

Early Site Permits (ESP)

- **Current activities include recent meetings with NEI ESP Task Force**
- **Three part review**
- **Staff needs to begin work early**

Construction Inspection Program (CIP)

- **CIP reactivation**
- **Reactivation of WNP-1 construction permit**
- **Resolution of programmatic ITAAC issue**

Rulemakings

- **Part 52**
- **Part 51 (Tables S-3 and S-4)**
- **Alternative Sites**

Stakeholder Interactions

- **Web Page**
- **Initial workshop**
- **Future workshops**
- **Public meetings**

Challenges

- **Hiring and maintaining critical skills**
- **Industry plans and information**
- **Budget**
- **Identifying and implementing efficiencies**

Activities Currently Underway

- **AP-1000 pre-application activities**
- **PBMR pre-application activities**
- **Preliminary discussions on GT-MHR and IRIS**
- **International cooperation**

Technology and Technical Infrastructure

NRC Readiness will depend upon:

- understanding the technology**
- ability to independently confirm safety**
- developing and maintaining necessary skills**

Technology

- **Likely different than currently operating plants.**
- **Safety may be accomplished in non-traditional ways.**
- **New technology may also have applicability to current plants.**

Independent Capability

- **Many NRC regulatory decisions supported by independent confirmatory analysis and data.**
- **Future plant licensing decisions should also have this support.**
- **Development of independent capability takes time & resources.**

Skills

- **New skills will be required.**
- **Readiness assessment must address:**
 - **numbers and types of skills needed**
 - **strategies to obtain them**

Key Assumptions

- **Industry plans and schedules**
- **High quality applications**
- **NRC independent review capability**
- **Case-by-case application of 10 CFR in the near term**

Potential Areas for Policy Issues

- **Technical**
 - **achievement of safety in non-traditional ways**
 - **risk-informed; performance-based approach/criteria**
- **Institutional**
 - **approach for licensing future plants**
 - **infrastructure needs**

Milestones

- **Future Licensing and Inspection Readiness Assessment -9/01**
- **Proposed Rule on 10 CFR Part 52 Revision -9/01**
- **Paper on Exelon's Legal/Financial White Papers -11/01**
- **Paper on Exelon's Regulatory Licensing Approach -11/01**

Milestones (continued)

- **AP-1000 Phase 2 Review Report -1/02**
- **Recommendation on Programmatic ITAAC -3/02**
- **Paper on Technical Issues for PBMR - 4/02**
- **Paper on Technical Policy Issues for PBMR -9/02**