
Commission Briefing on Readiness for New Plant Applications and Construction

2001 JUL 11 PM 1:31

REC'D BY SECY

10 JUL 01 2:50

July 19, 2001

Regis Matzie

Sr. VP, Nuclear Systems

Westinghouse Electric Company

Q/M

LE 100



7

Topics

- **Westinghouse New Designs and Status**
- **AP1000 Design Certification Approach**
- **Status of AP1000 Pre-certification Review**
- **Design and Licensing Approach for AP1000**
- **IRIS Design Status & Plans**
- **Other Westinghouse Activities**
- **Summary**

New Plant Briefing 7-19-01 2



Westinghouse New Designs and Status

- **System 80+ Design Certification - 1997**
- **AP600 Design Certification -1999**
- **AP1000 Pre-Application Review - Ongoing**
- **AP1000 Design Certification Application -
3QFY02**
- **AP1000 Design Certification Target -
1QFY05**
- **IRIS Pre-Application - Review Starting in
FY02**

New Plant Briefing 7-19-01 3



AP1000 Design Certification Approach

- **Utilize AP600 DC to maximum extent**
- **Minimize design changes to obtain power increase while retaining adequate safety margins**

AP1000 Design Certification

Approach (cont'd)

- **Obtain pre-certification application agreement on:**
 - **Applicability of AP600 Testing Program to AP1000**
 - **Applicability of AP600 Analysis Codes to AP1000**
 - **Applicability of AP600 Exemptions to AP1000**
 - **AP1000 Design Acceptance Criteria**

New Plant Briefing 7-19-01 5

Status of AP1000

Pre-certification Review

- **Westinghouse Submittals Complete**
 - **AP1000 Plant Description & Analysis Report - December 12, 2000**
 - **AP1000 PIRT & Scaling Assessment Report - February 6, 2001**
 - **AP1000 Code Applicability Report - May 4, 2001**

Status of AP1000

Pre-certification Review (cont'd)

- **Staff Acceptance Review Begun in May 2001**
 - **Acceptance review completion scheduled end of July 2001**
- **Initial RAIs Received & Responses Submitted**

Licensing Challenges for AP1000

- **Minimize design changes**
- **Modify AP600 analyses for plant changes**
- **Focused review on changes and their impact on safety**
- **Prevention of Regulatory creep**
- **Maintain high NRC priority (schedule and resource allocation)**

New Plant Briefing 7-19-01 8



IRIS Design Status & Plans

- **Conceptual design complete, preliminary design in progress**
- **NRC staff introduced May 01 and ACRS June 01**
- **Licensing plan under development**
- **Test planning involving NRC starting FY02**
- **Pre-application review starting in FY02**
- **SAR submittal target FY05**
- **Design Certification target FY08**

New Plant Briefing 7-19-01 9



Other Westinghouse New Plant Activities

- Active involvement in NEI New Plant Task Forces**
- DOE NERI Project on New Licensing Framework**
- Support of PBMR US Licensability Feasibility Study for BNFL and Exelon**
- Potential design and licensing support of PBMR COL & DC Applications**

Summary

- **Administration and Congress depending on nuclear power to play significant role in nation's energy strategy**
- **Westinghouse engaged in many new plant development activities**
- **NRC support needed in preparation for new applications in terms of qualified staff resources, review priorities and streamlined licensing processes**