Commission Briefing on Readiness for **New Plant Applications** and Construction SEC'D BY SECY July 19, 2001 0 JL 01 2:50 **Regis Matzie** Sr. VP, Nuclear Systems Westinghouse Electric Company #)BNFL

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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





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





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)

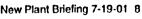
- •Staff Acceptance Review Begun in May 2001
 - Acceptance review completion scheduled end of July 2001
- Initial RAIs Received & Responses
 Submitted





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)







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





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





- •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



