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# Gregory Jaczko, Commissioner U.S. Nuclear Regulatory Commission

Steve Tritch, CEO and President  
Westinghouse Electric Company

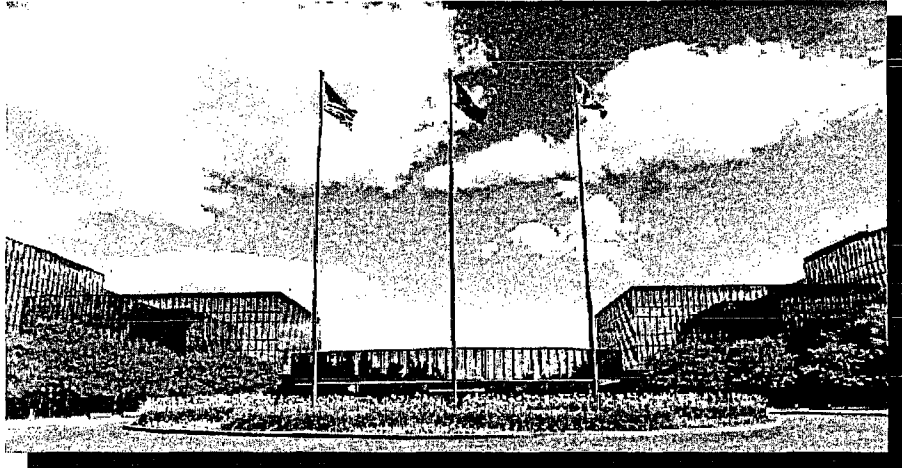
March 30, 2005

# Proposed Agenda

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- Westinghouse mission and global organization
- Customer 1<sup>st</sup>
- Resources
- AP1000
- Large Break LOCA Redefinition
- Alloy 600 Activities
- Diversity and Defense in Depth (D3)
- Dose Reduction Products
- Outage Safety Improvements
- Commissioner Feedback

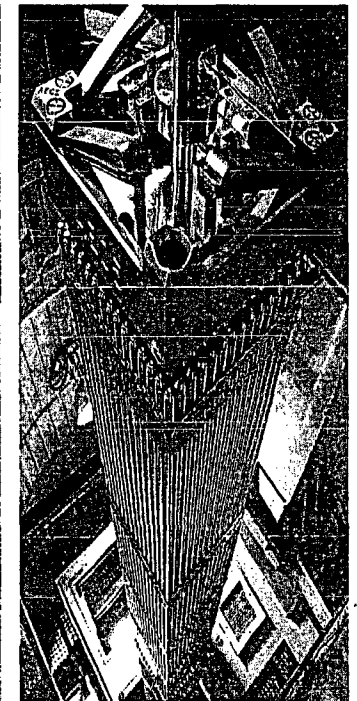
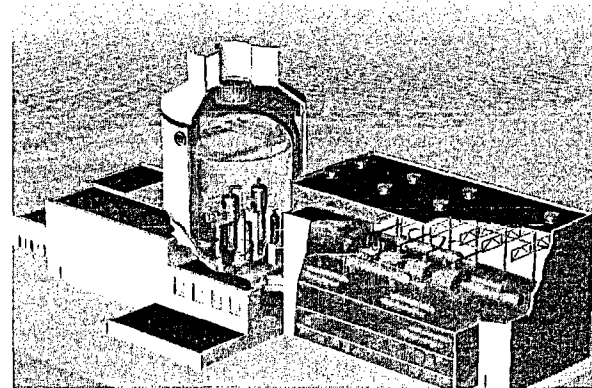
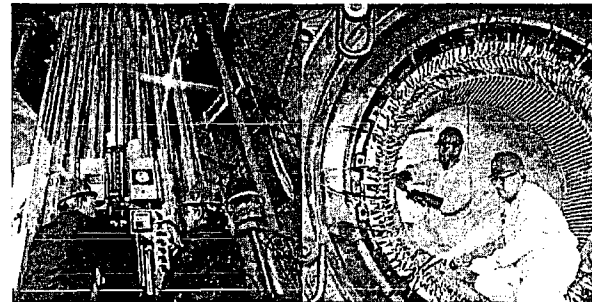
# Westinghouse Electric Company



Westinghouse Electric Company Headquarters  
Energy Center, Monroeville, Pa, USA

Nearly 50 percent of the nuclear power plants in operation worldwide, and nearly 60 percent in the United States, are based on Westinghouse technology.

Westinghouse Electric Company provides fuel, services, technology, plant design, and equipment to utility and industrial customers in the worldwide commercial nuclear electric power industry.

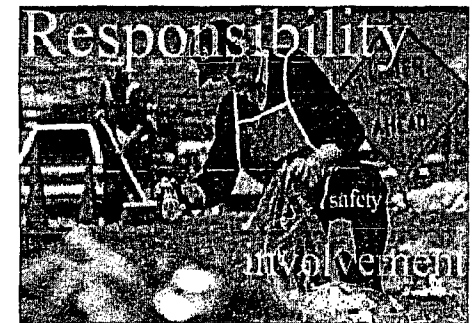
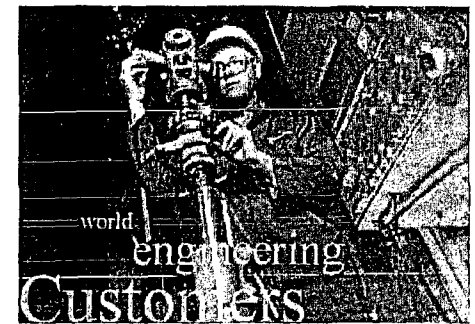
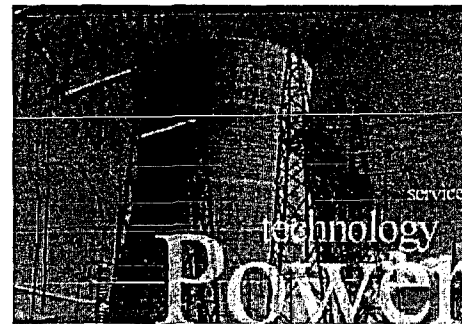


# Westinghouse Electric Company Vision and Values

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Our vision is to be the supplier of choice in serving the world's growing need for energy with leading-edge nuclear technology. Our values support this vision:

- Act with integrity and respect for others
- Be safe and environmentally responsible
- Commit to achieve success for our customers
- Deliver value and profit
- Excel in our operations



# Nearly 8,500 Employees in 15 Countries

Richland, WA

Newington, NH

Ogden, UT

Lake Bluff, IL

Windsor, CT

Seoul, Korea

Burr Ridge, IL

New Britain, CT

Beijing, China

Washington, DC

Chattanooga, TN

Rockville, MD

Spartanburg, SC

Blairsville, PA

Tokyo, Japan

Columbia, SC

Churchill, PA

Kobe, Japan

New Stanton, PA

Monroeville, PA

Madison, PA

Taipei, Taiwan

Västerås, Sweden

Springfields, United Kingdom

Nivelles, Belgium

Paris, France

Mannheim, Germany

Manosque, France

Madrid, Spain

Moscow, Russia

Kiev, Ukraine

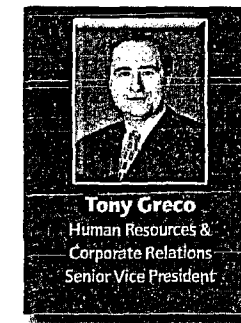
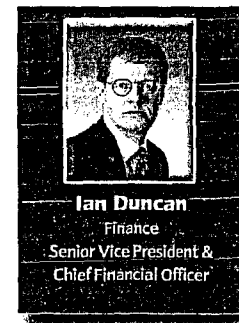
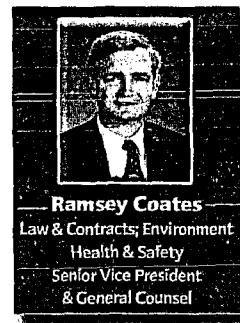
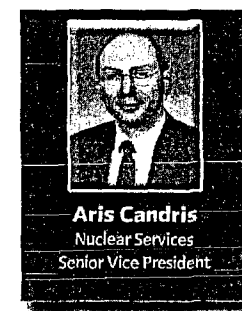
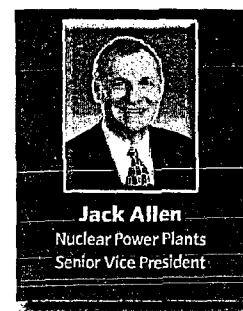
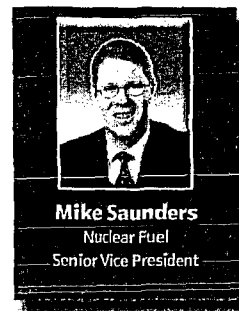
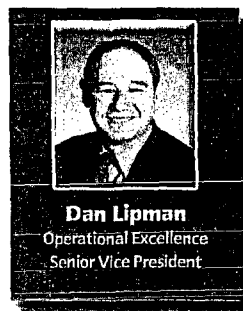
Kharkov, Ukraine

Sofia, Bulgaria

# Westinghouse Electric Company Organization Chart



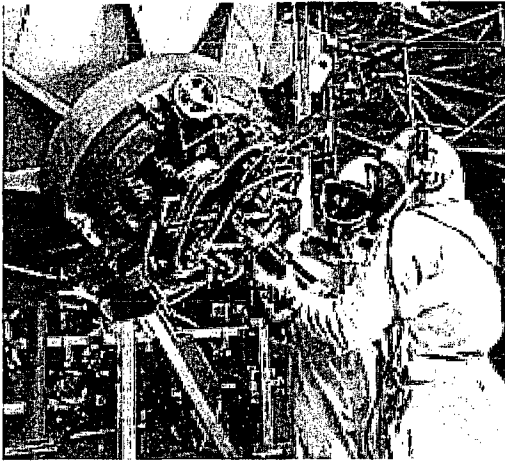
## Westinghouse Electric Company



August 2004

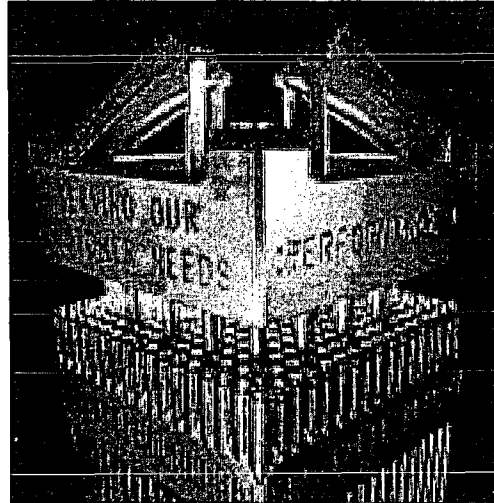
# Three Core Businesses

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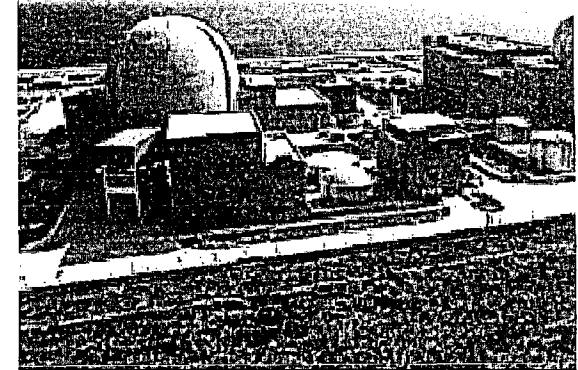
## Nuclear Services

Maintenance, repair and replacement of equipment. Provider of engineering services and methods for the design, operation and safety of nuclear power plants worldwide



## Nuclear Fuel

A single-source fuel provider for PWR, BWR, VVER, AGR, and Magnox reactors worldwide



## Nuclear Power Plants

Specializing in the technology of new nuclear power plants and component manufacturing

**Total Revenue \$2 Billion**

# Strategy Implementation & Metrics

## Westinghouse Strategic Objectives

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Achieve Sustainable Growth by Contributing  
to Our Customers' Success

**Customer  
Intimacy**

- Behavior Differentiation
- Create Success for Customers

**Operational  
Excellence**

- World Class EHS
- Flawless Execution
- Cost Competitiveness

**Technology  
Leadership**

- Develop Leading Technology Solutions

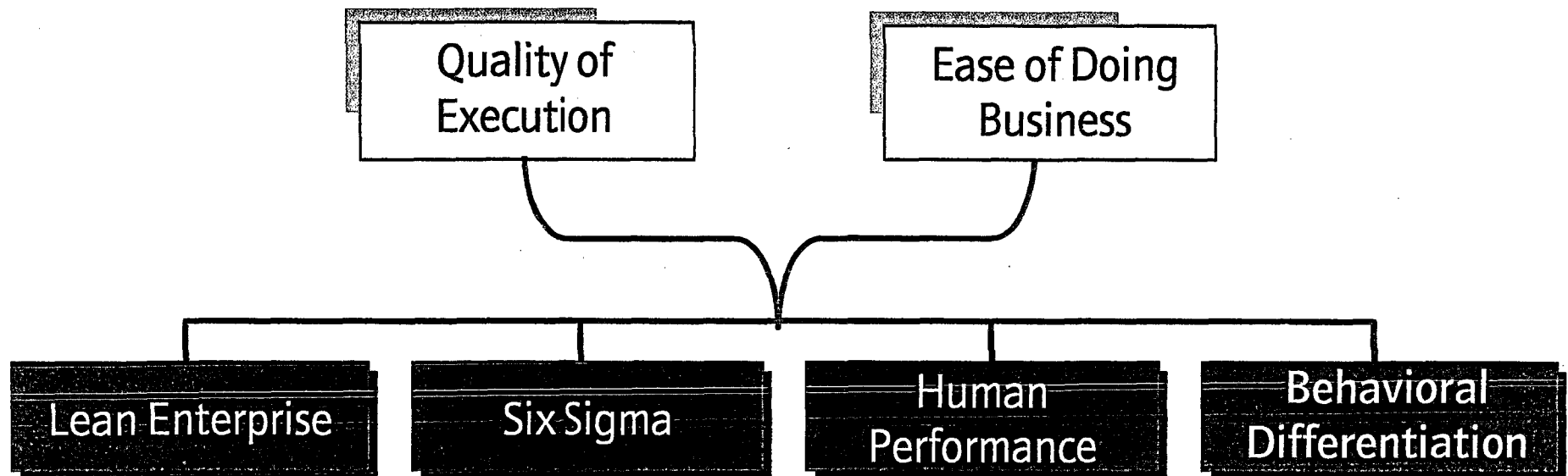


# Customer 1<sup>st</sup> Program Structure/Tools

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Customer <sup>st</sup>

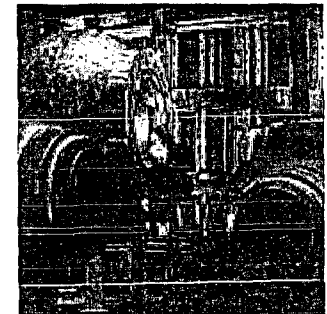
## Customer <sup>st</sup>



# Westinghouse Resources and Critical Skills

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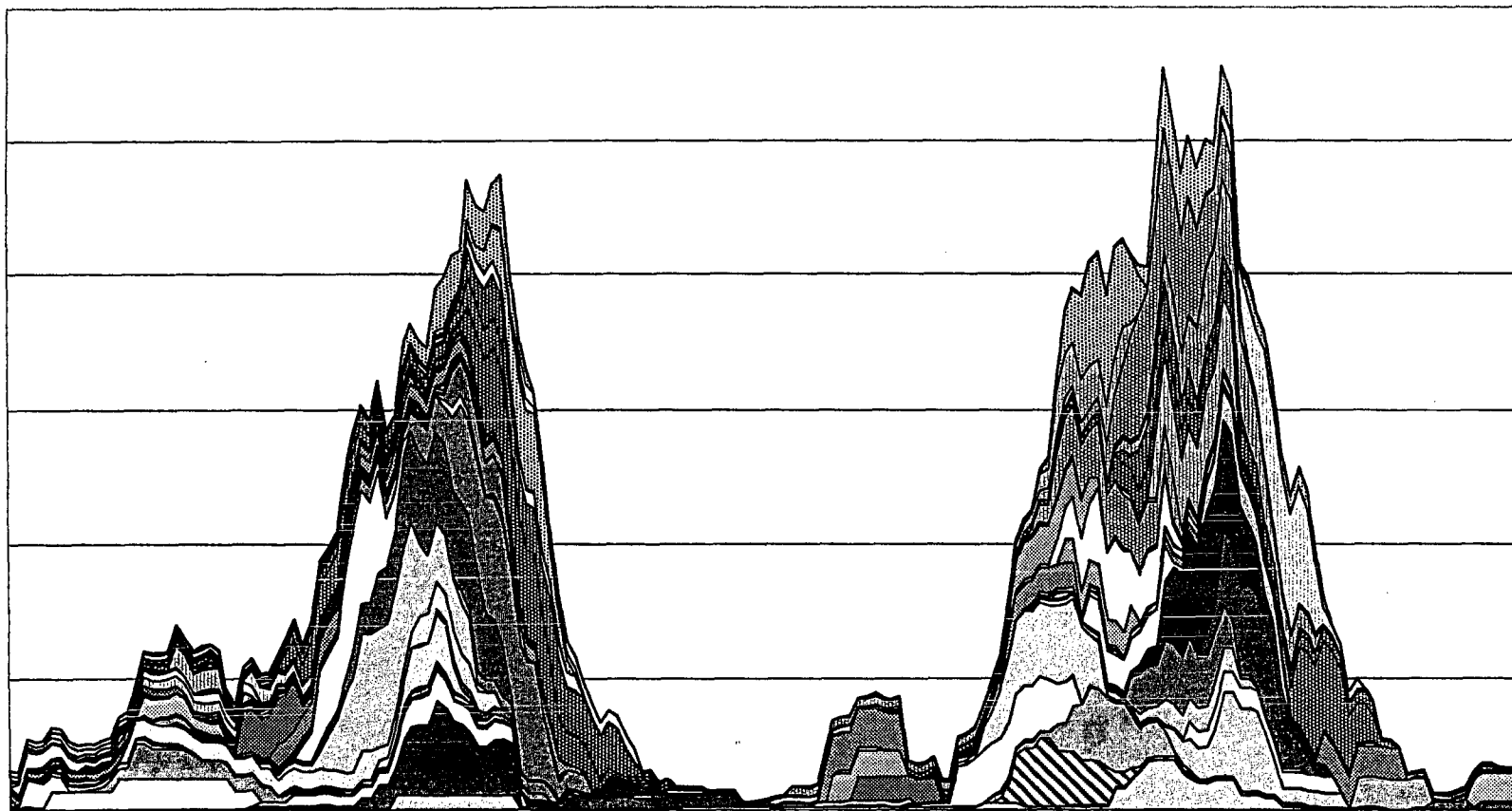
- Hiring and Retention
  - Hiring ahead of attrition
  - Retention rates very favorable
  - Growing business
- Outages
  - Operating plant outage cycles have enormous impact on industry resources



# Nuclear Services

## FY2005 Field Services Outage Resource Demand

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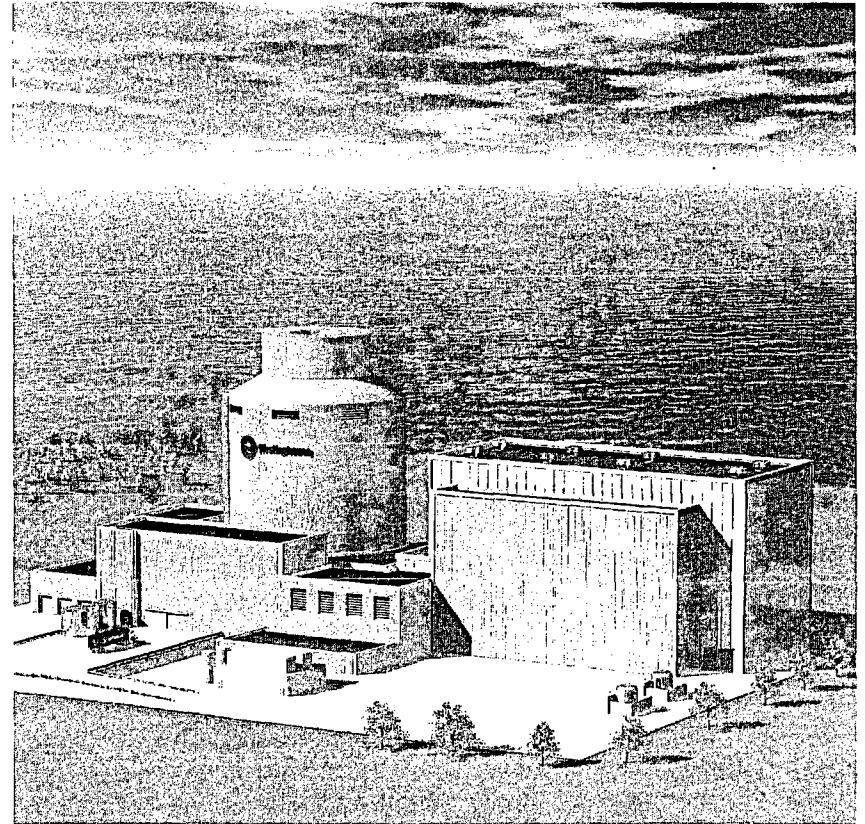
Fall 04

Spring 05

# AP1000

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- Final Design Approval and Export License
- Design Certification
- COL Application Guidance Activities
- NuStart Activities
- China Bid



# Westinghouse LBLOCA Redefinition Activities

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- Working with Westinghouse Owners Group, NEI and NRC to support the LBLOCA Redefinition Initiatives
- Providing analysis support to staff to support development of revised rule and implementation guidelines
- LOCA – Providing analysis for Westinghouse plant and input data to NRC analysis models
- CONTAINMENT – providing NRC with input data and mass and energy releases.
- PRA -- developing sensitivities to evaluate safety impact of changes (EDG start time relaxation and CS delay or elimination)

# Westinghouse LBLOCA Redefinition Activities

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- Member of the Expert Elicitation Panel
- Working with Westinghouse Owners Group and other industry groups to promote and assist in the development of the LBLOCA redefinition activities
- Working with NEI to develop an industry white paper
- Providing support to the staff as requested
- Attending and supporting industry, ACRS and NRC meetings on the initiative

# Alloy 600

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Westinghouse continues to support the nuclear industry in response to the issues with Alloy 600 components:

- Building and installing replacement reactor vessel heads, steam generators and pressurizers
- Supporting Industry Materials Test and Evaluation Programs
- Developing and implementing mitigation techniques
- Developing and implementing repair technologies
- Developing and implementing inspection and monitoring techniques

# I&C Diversity and Defense in Depth (D3) Analyses

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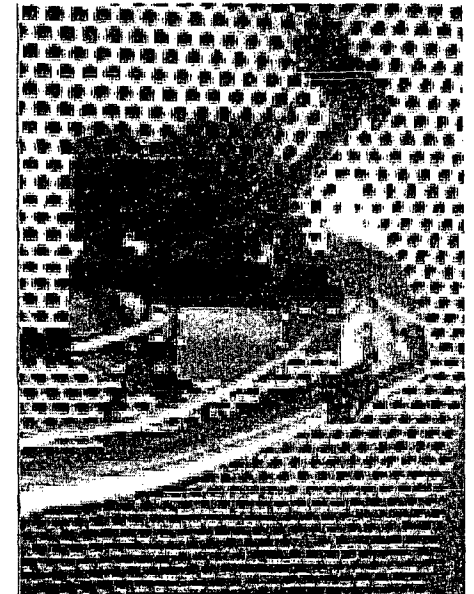
- A D3 analyses is required for substantial I&C safety system replacement to confirm that a plant will have adequate coping capability for a postulated digital common mode failure
- The Industry has developed Topical Report (EPRI 1002835) that describes proposed methods for performing D3 analyses that was submitted to NRC February 22, 2005
- Existing NRC guidance (NUREG 6303) endorses only a deterministic approach
- The proposed industry position utilizes a combination of deterministic and risk informed approaches to provide a better focus on identifying both the capabilities of existing plant systems and identification of any new systems required to cope with a digital common mode failure
- NRC approval of a risk informed approach is necessary for digital replacement of aging analog safety systems with digital technology



# Dose Reduction Products

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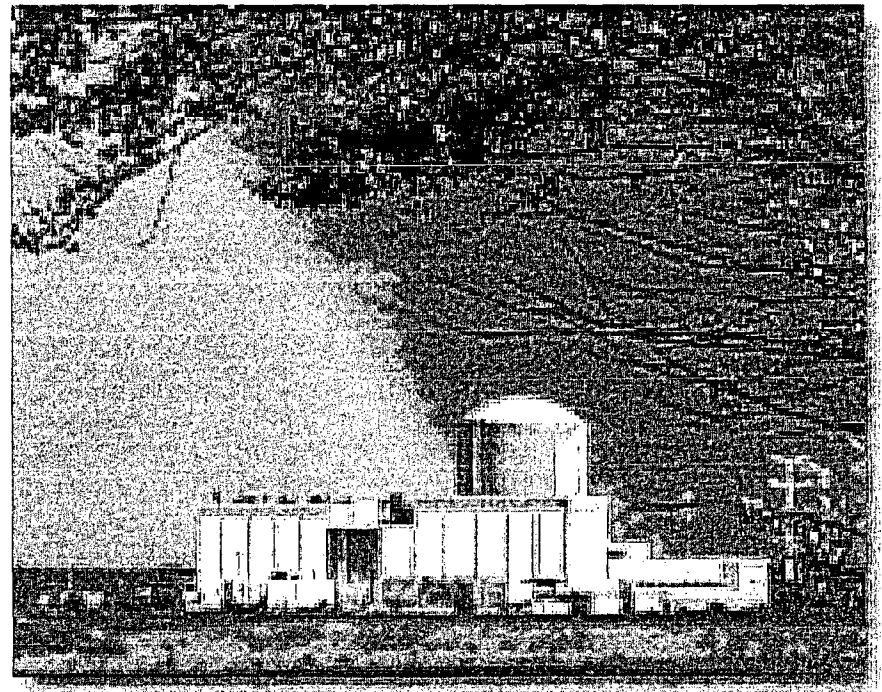
- RV Head & RV ISI Robotics
- Terminator Spent Fuel Dry Storage Container Welding System
- Pegasys SG Inspection Robot
- NITROX Decontamination System



# Outage Safety Improvements

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- Mobile cooling system
- Fuel Assembly tracking/recording development
- Fuel Handling Error Prevention Initiative
- Technical Response Center Red Flag Reports



# Commissioner Feedback

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- Feedback
- Westinghouse Action Items



# Westinghouse

A BNFL Group company