NRC REGION II BRIEFING

Crystal River Unit 3 Update

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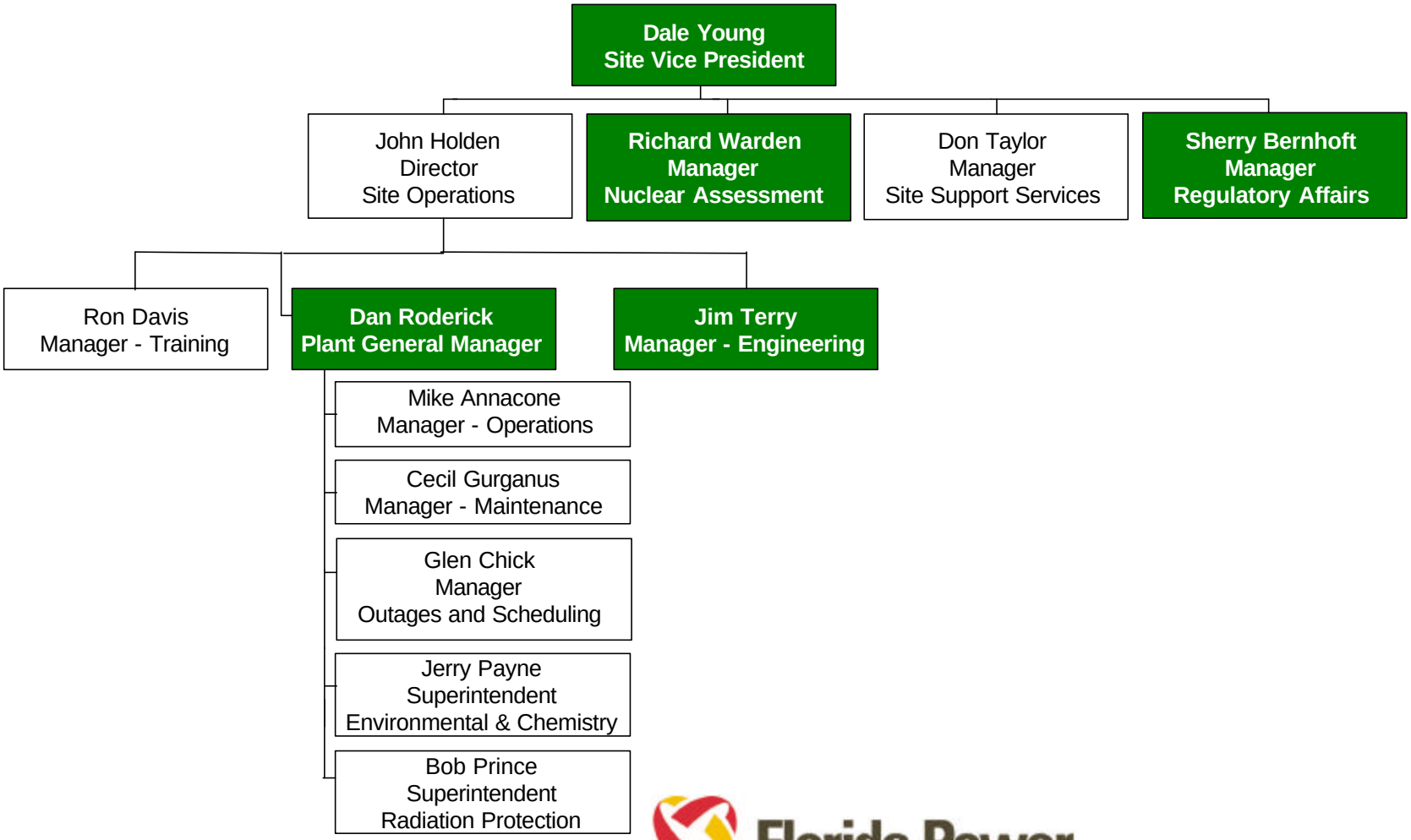
AGENDA

- Introduction ..... Dale Young
- Integration Activities ..... Dale Young
- Plant Update ..... Danny Roderick
- Refuel 12 Outage Overview ... Danny Roderick
- Refuel 12 Major Activities ..... Jim Terry
- Corrective Action Program ... Richard Warden
- Future Initiatives ..... Dale Young
- Closing Remarks ..... Dale Young

KEY DEPARTMENT MANAGERS



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INTEGRATION ACTIVITIES

- Close – December 2000
- Controlled Change
- Peer Groups
- Nuclear Assessment Section (NAS)
- Materials
- Nuclear Information Technology (NIT)
- Re-organization - January 2001
- Corrective Action Program (CAP)
- PassPort – February 2002

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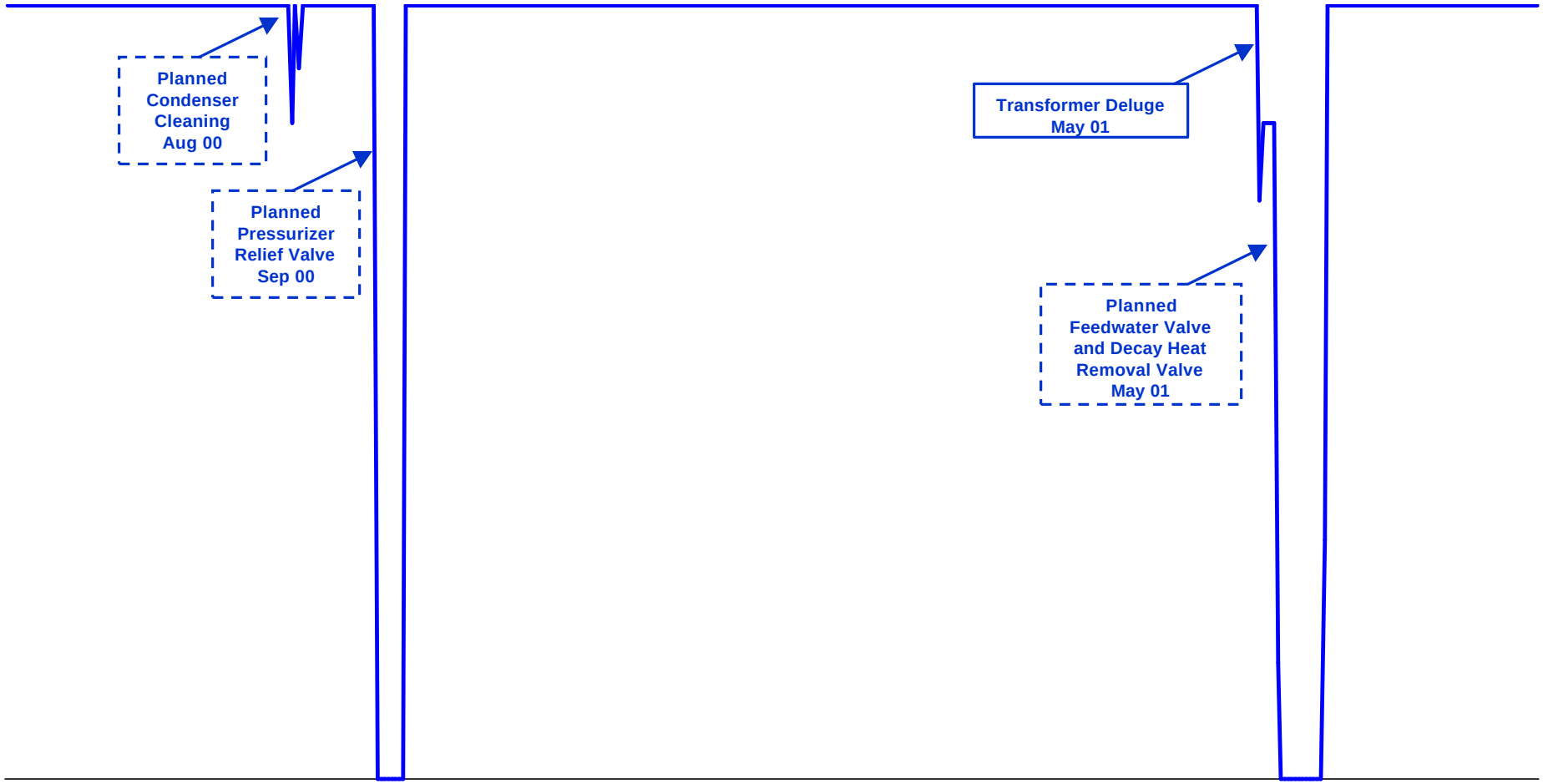
CRYSTAL RIVER – UNIT 3
POWER HISTORY
June 1, 2000 - August 1, 2001



INPO PERFORMANCE INDICATOR INDEX

- **All Progress Energy Nuclear Plants Are in the Industry Top Quartile Through the First Quarter of 2001**
- **Crystal River 3 is 10th in the Industry**
- **Crystal River 3 Has Been in the Top Quartile for the Past 5 Quarters**
- **Crystal River 3 is the Highest Ranked B&W Plant**

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OPERATING RESULTS

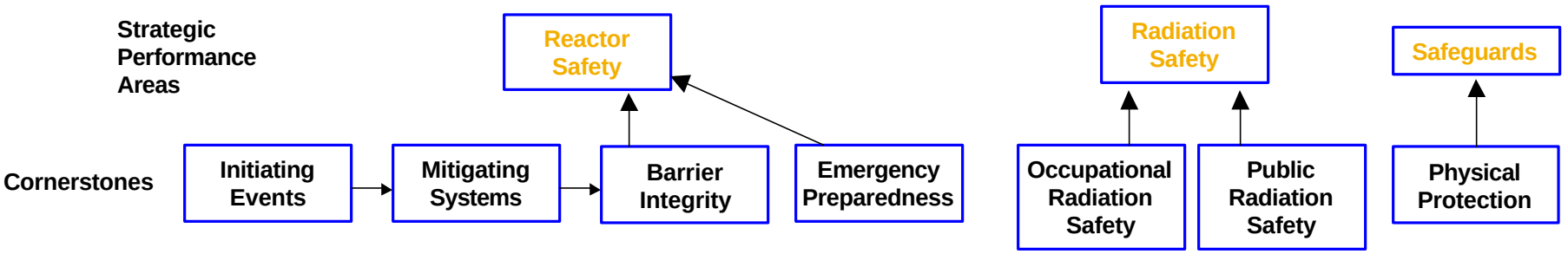
	To Date		
	2000	2001	
Capacity Factor [%]	98.3	94.3	
Forced Outage Rate [%]	0.0	0.0	
Radiation Dose [Rem]	14.7	4.4	On-line
DHV-3 Outage [Rem]		11.4	Outage
Personnel Contaminations	27	3	
Maintenance Backlog	333	318	

REACTOR COOLANT SYSTEM LEAKAGE

- **Decay Heat Suction Valve DHV-3 Repairs Complete**
- **ITS Identified Leakage Limit is 10 gpm**
- **Total RCS Leakage Was Estimated at 6 gpm While Shutdown**
- **Reactor Oversight Process Performance Indicator for 2rd Quarter 2001 RCS Identified Leakage is White**

Crystal River - Unit 3

2Q/01 Plant Performance Summary



Performance Indicators

Based on data through June 30, 2001

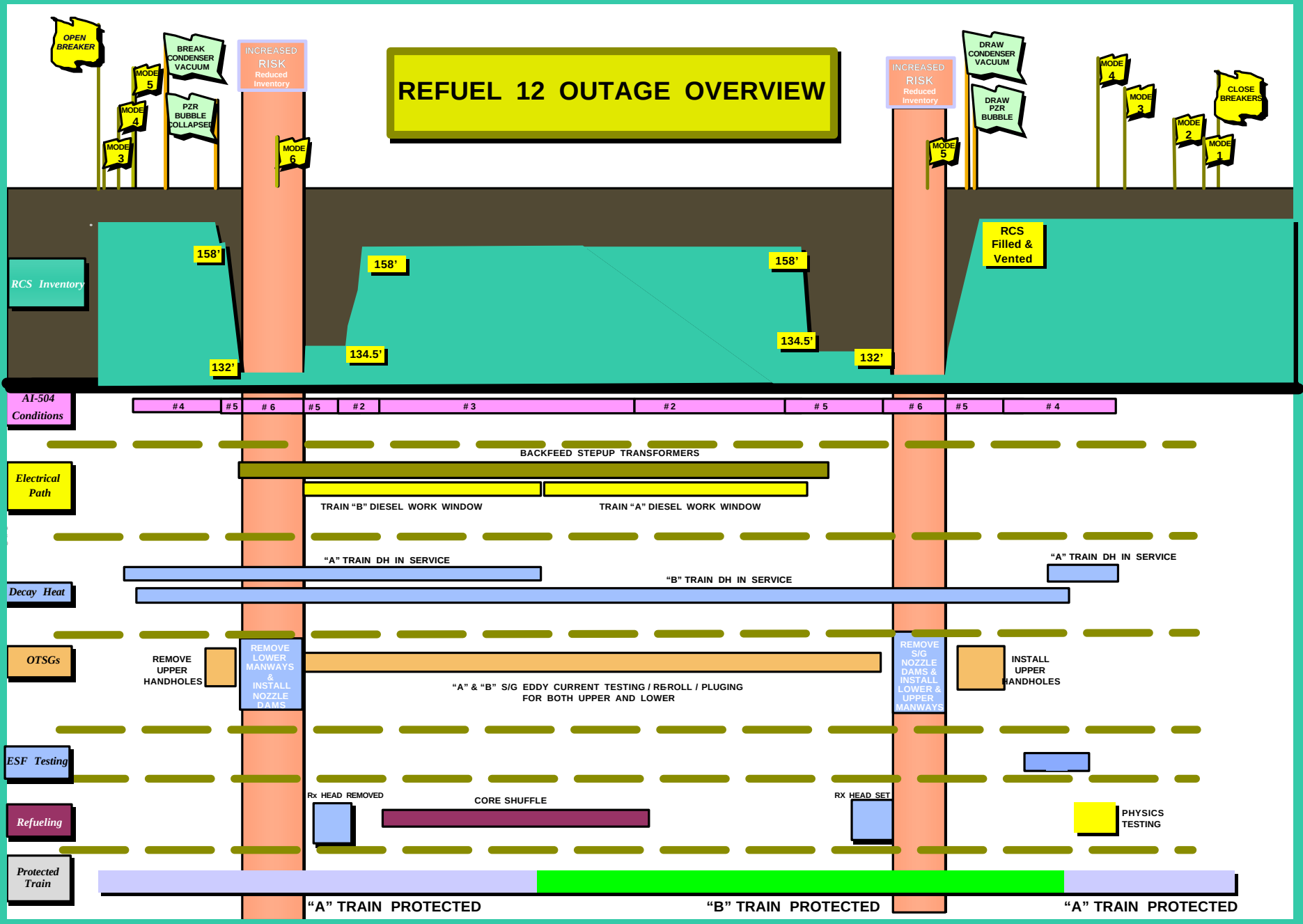
Initiating Events	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Physical Protection
Unplanned Scrams	Emergency AC Power System Unavailability	Reactor Coolant System Specific Activity	Drill / Exercise Performance	Occupational Exposure Control Effectiveness	RETS/ODCM Radiological Effluents	Protected Area Equipment
Scrams With Loss of Normal Heat Removal	High Pressure Injection System Unavailability	Reactor Coolant System Leakage	ERO Drill Participation			Personnel Screening Program
Unplanned Power Changes	Emergency Feedwater System Unavailability		Alert and Notification System			FFD / Personnel Reliability Program
	Residual Heat Removal System Unavailability					
	Safety System Functional Failure					

Most Significant Inspection Findings

	Initiating Events	Mitigating Systems	Barrier Integrity	Emergency Preparedness	Occupational Radiation Safety	Public Radiation Safety	Physical Protection
2Q/2001	No Findings this Quarter	No Findings this Quarter	No Findings this Quarter	No Findings this Quarter	No Findings this Quarter	No Findings this Quarter	No Findings this Quarter
1Q/2001	No Findings this Quarter	NCV00-05-02	No Findings this Quarter	No Findings this Quarter	No Findings this Quarter	No Findings this Quarter	NCV00-05-01
4Q/2000	No Findings this Quarter	NCV00-04-01	Findings without color designation	No Findings this Quarter	No Findings this Quarter	No Findings this Quarter	No Findings this Quarter
3Q/2000	No Findings this Quarter	NCV00-03-01	No Findings this Quarter	No Findings this Quarter	NCV00-02-01	No Findings this Quarter	No Findings this Quarter

LICENSED OPERATOR TRAINING

- **Operator Pipeline**
- **Current License Class**
  - **February 2002 Examination**
- **Succession Planning From Operations**


REFUEL 12 OUTAGE OVERVIEW
OPEN BREAKER
MODE 5
MODE 4
MODE 3
BREAK CONDENSER VACUUM
PZR BUBBLE COLLAPSE
INCREASED RISK Reduced Inventory
MODE 6
DRAW CONDENSER VACUUM
DRAW PZR BUBBLE
MODE 5
INCREASED RISK Reduced Inventory
MODE 4
MODE 3
MODE 2
MODE 1
CLOSE BREAKERS
RCS Inventory
158'
158'
158'
134.5'
134.5'
132'
132'
RCS Filled & Vented
AI-504 Conditions
#4
#5
#6
#5
#2
#3
#2
#5
#6
#5
#4
Electrical Path
BACKFEED STEPUP TRANSFORMERS
TRAIN "B" DIESEL WORK WINDOW
TRAIN "A" DIESEL WORK WINDOW
Decay Heat
"A" TRAIN DH IN SERVICE
"B" TRAIN DH IN SERVICE
"A" TRAIN DH IN SERVICE
OTSGs
REMOVE UPPER HANDHOLES
REMOVE LOWER MANWAYS & INSTALL NOZZLE DAMS
"A" & "B" S/G EDDY CURRENT TESTING / RE-ROLL / PLUGING FOR BOTH UPPER AND LOWER
REMOVE S/G NOZZLE DAMS & INSTALL LOWER & UPPER MANWAYS
INSTALL UPPER HANDHOLES
ESF Testing
Refueling
Rx HEAD REMOVED
CORE SHUFFLE
RX HEAD SET
PHYSICS TESTING
Protected Train
"A" TRAIN PROTECTED
"B" TRAIN PROTECTED
"A" TRAIN PROTECTED

REFUEL 12
OUTAGE STRETCH GOALS

Human Performance Events	**≤ 1 Event**
OSHA Recordable Injuries	**≤ 1 Injury**
Radiation Exposure	**≤ 110 Rem**
Duration	**≤ 27 Days**
Budget	**≤ $17.4 Million**

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REFUEL 12
MAJOR ACTIVITIES

- **Steam Generator Inspections**
- **Control Rod Drive Motor (CRDM) Nozzle Inspection**
- **Emergency Diesel Generator (EDG) Maintenance**

STEAM GENERATOR INSPECTIONS

- **Bobbin Full Length Examination (100%)**
- **Upper Tube Sheet Motorized Rotating Pancake Coil (MRPC) Inspection (100%)**
- **Lower Tube Sheet MRPC Inspection Sludge Pile Region (20%)**

CRDM NOZZLE INSPECTIONS

- **100% Bare Head External Inspection**
- **Incorporating Lessons Learned from Oconee**
- **Contingency Plans Fully Developed**
  - **Non-Destructive Examination (NDE) Plans**
  - **Repair Plans**

SAFETY SYSTEM DESIGN INSPECTION

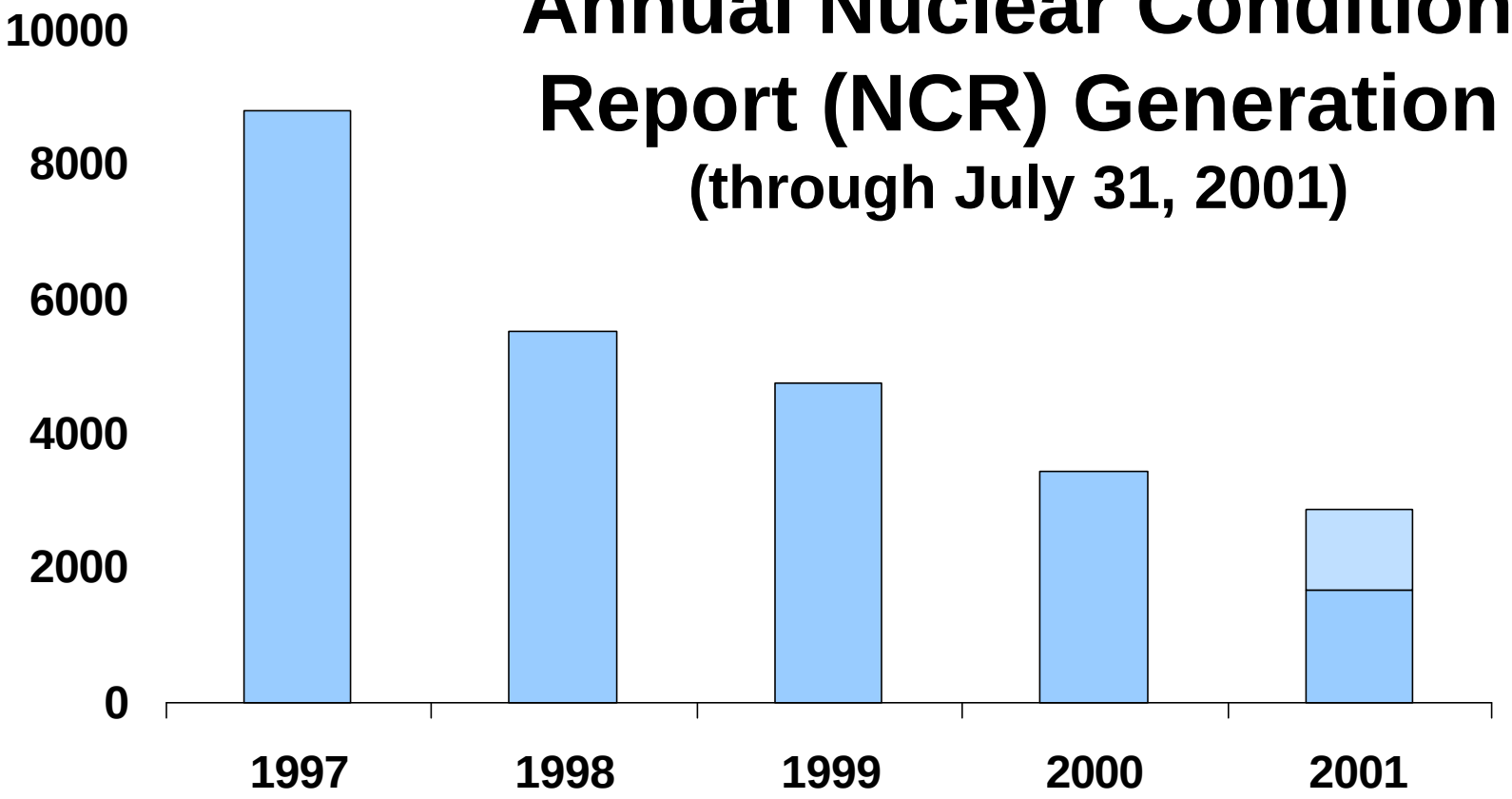
- Comprehensive Inspection of Station Black-Out (SBO) Coping Ability
- Included In-Depth Reviews of Risk Significant Systems
- Included In-Depth Program Reviews
- Exit Conclusion: No Findings
  - Good Technical Capabilities of Personnel
  - Confidence in Ability to Mitigate SBO Event

CORRECTIVE ACTION PROGRAM

- **Key Performance Indicators**
- **Nuclear Generation Group (NGG) Transition**
- **CAP Improvement Initiatives**

CORRECTIVE ACTION PROGRAM

Annual Nuclear Condition Report (NCR) Generation
(through July 31, 2001)



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CORRECTIVE ACTION PROGRAM

Key Performance Indicators

	Actual	Target
• Significant Adverse Corrective Action Average Age	88 days	90 days
• Adverse Corrective Action Average Age	79 days	90 days
• Operating Experience Evaluation	31 days	90 days

CORRECTIVE ACTION PROGRAM

NGG Transition

- **Implemented NGG CAP Procedures June 4, 2001**
- **Implemented Action Tracking (PassPort) June 4, 2001**
- **“Trend Watch” Ongoing**

CORRECTIVE ACTION PROGRAM

CAP Improvement Initiatives

- Action Tracking Training – Site Personnel
- Root Cause Investigation Training
- Unit Evaluator Trend Training

FUTURE INITATIVES

- **Power Uprate**
- **Operating License Renewal**
- **Steam Generator Replacement**
- **Reactor Vessel Head Replacement**

CLOSING REMARKS