

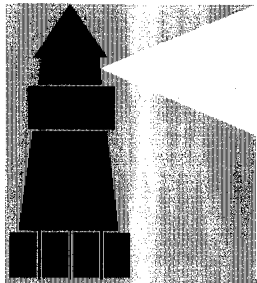
American Electric Power

Meeting with

Nuclear Regulatory Commission

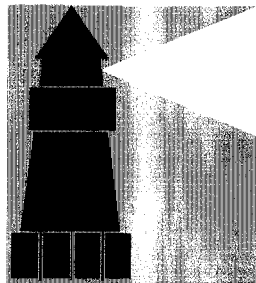
Safe / Reliable Operations
D. C. Cook
April 10, 2001





Agenda

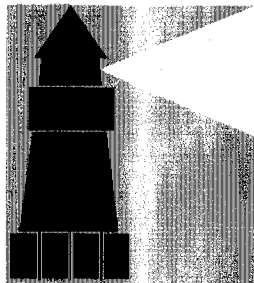
- | | |
|---|---------------|
| ■ Introduction | Bob Powers |
| ■ Maintenance Rule | Randy Ebright |
| ■ Engineering Enhancements | Scot Greenlee |
| ■ Operations Status and
Enhancements | Joe Pollock |
| ■ Wrap-up | Bob Powers |



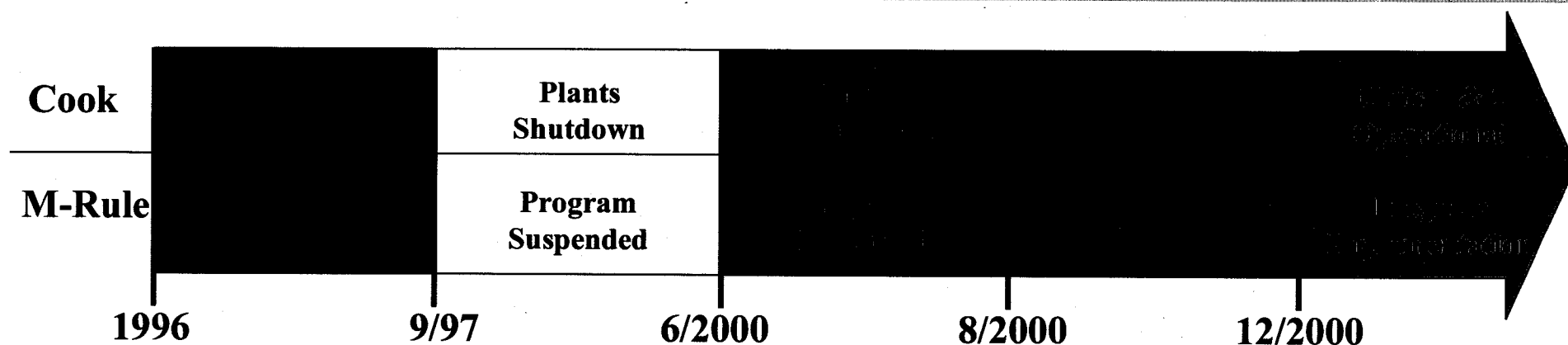
Maintenance Rule

Randy Ebright

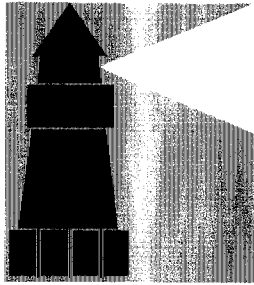
Manager - Engineering Programs



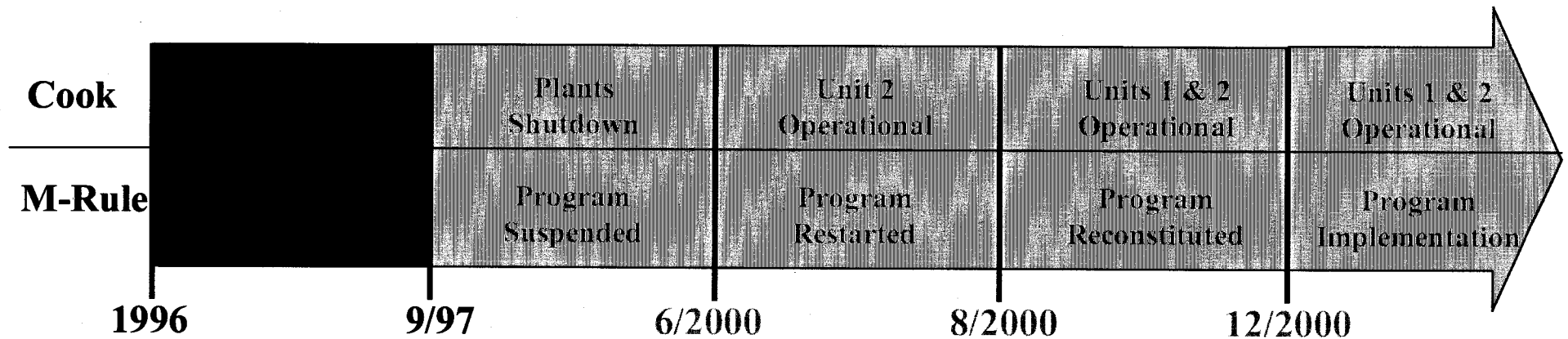
Overview



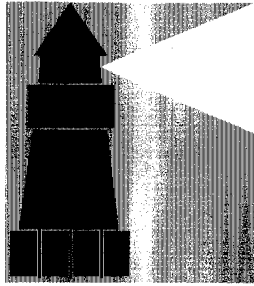
- Maintenance Rule Implementation at D. C. Cook
- How the Shutdown Affected Implementation
- Recovery Efforts
- Looking to the Future



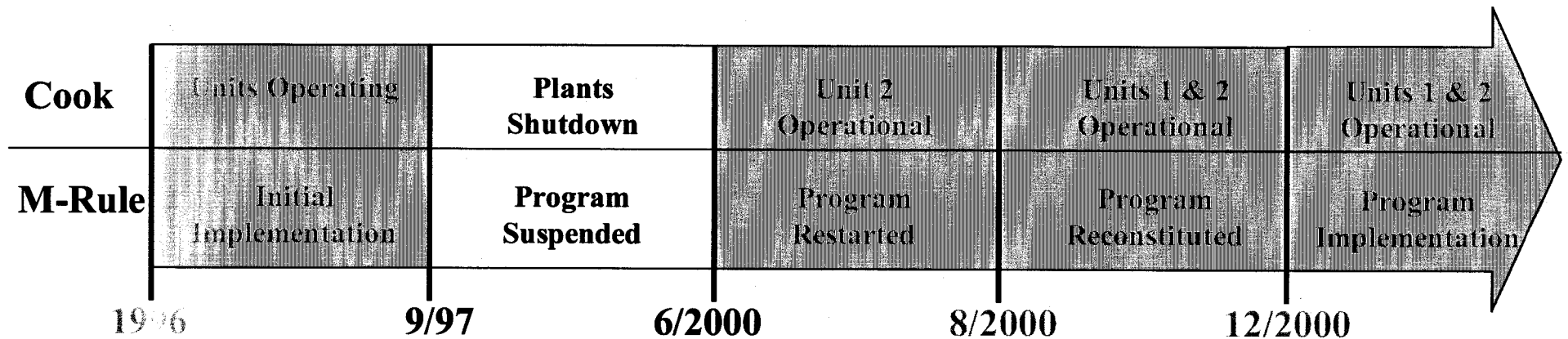
Maintenance Rule: Background



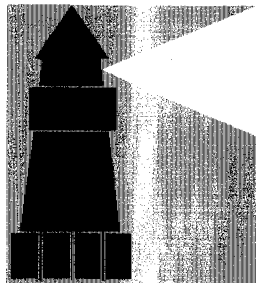
- Implemented Prior to Shutdown
- Evaluated & Assessed - Meets Requirements
- Continuing Assessments - At or Near Industry Standards



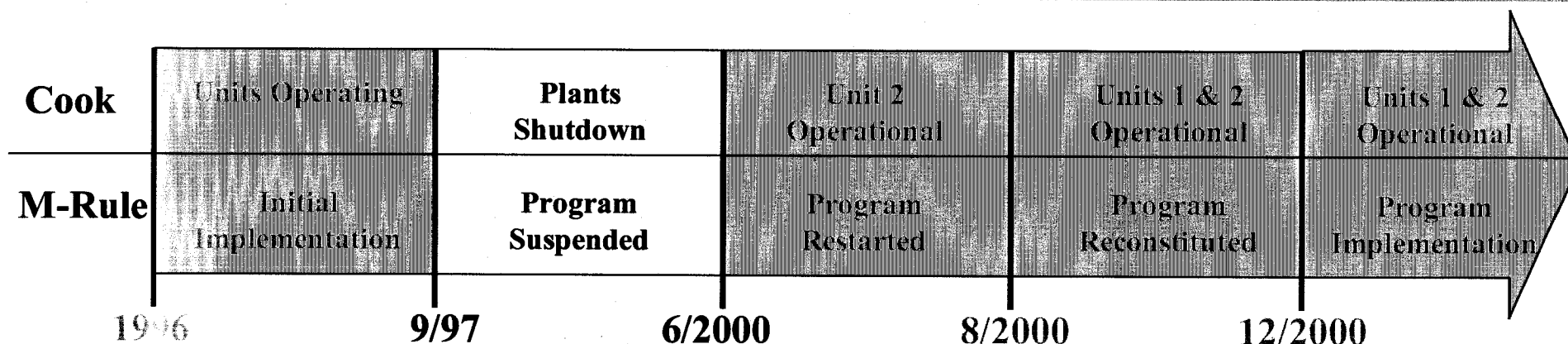
Maintenance Rule: On-Hold



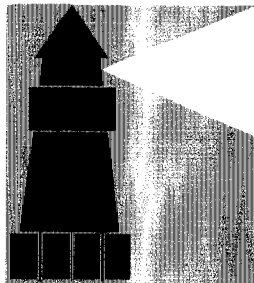
- **Plant Shut-down in September 1997**
- **Industry Continued Program Improvements**
- **Cook Suspended Implementation**



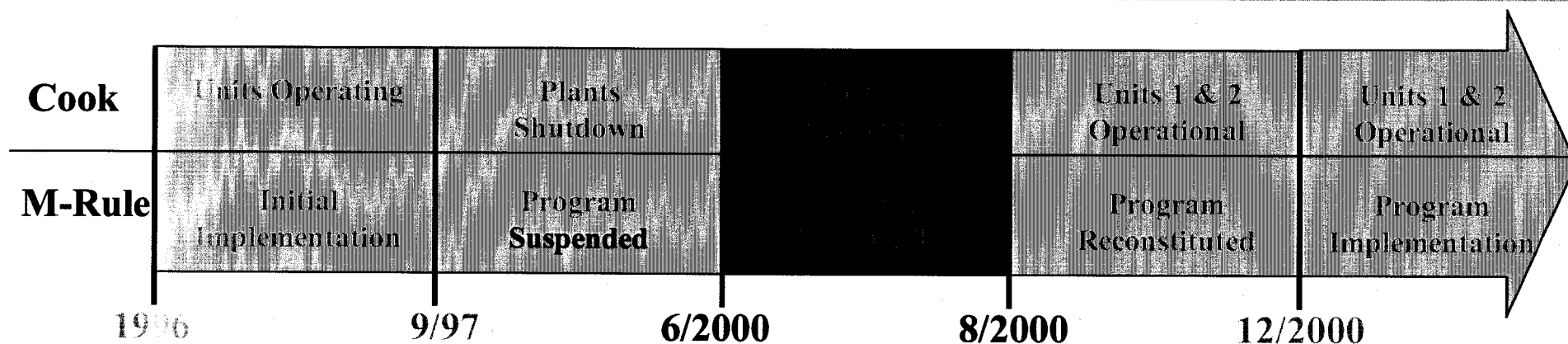
Maintenance Rule: On-Hold



- **Unit 2 Restart - Performed Assessment**
- **Some Corrective Actions Improperly Scoped**
- **Program Judged Adequate for Restart**



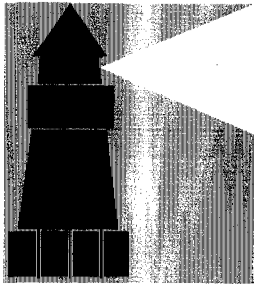
Maintenance Rule: Recovery



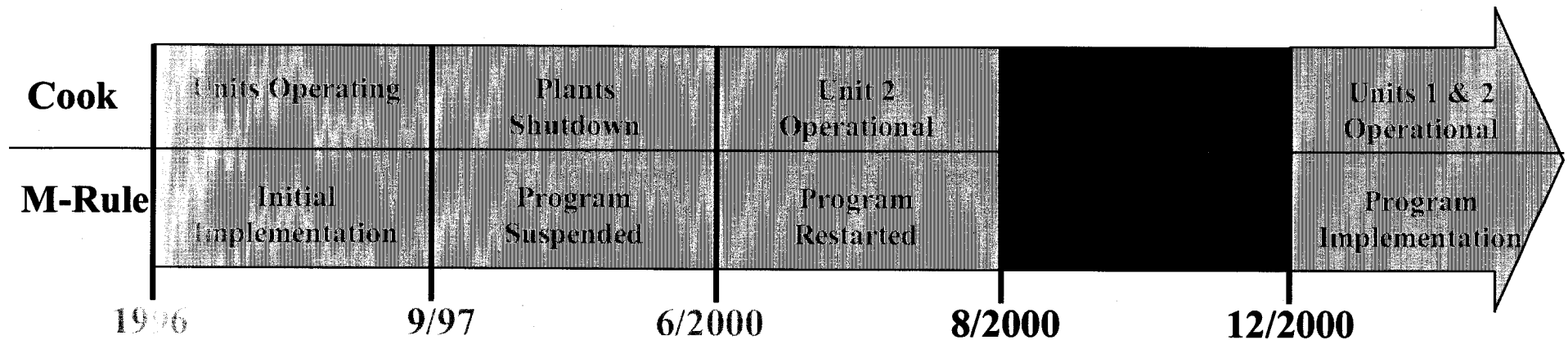
■ Unit 2 Restarted

■ M-Rule Implementation Initiated

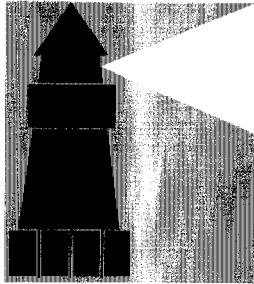
■ Unit 2 Operational - Unit 1 Recovery Proceeding



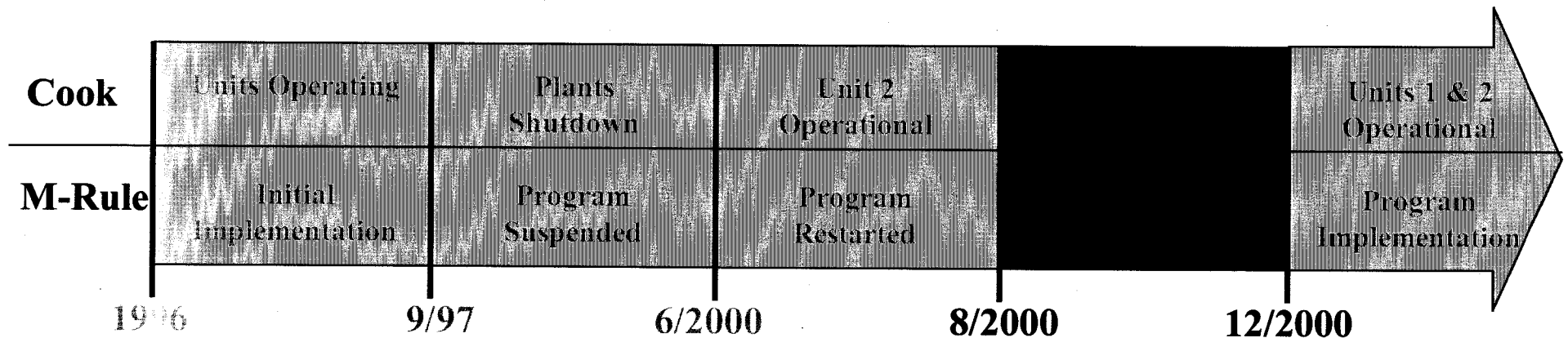
Maintenance Rule: Road to Excellence



- **Spent Fuel Pool Unavailability Data Questioned**
- **Additional Assessments Identified Fundamental Problems - Level 2 Condition Report**
- **Decision to Reconstruct M-Rule Program**
- **Insights and Conclusions**

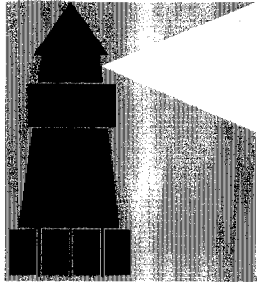


Maintenance Rule: Road to Excellence

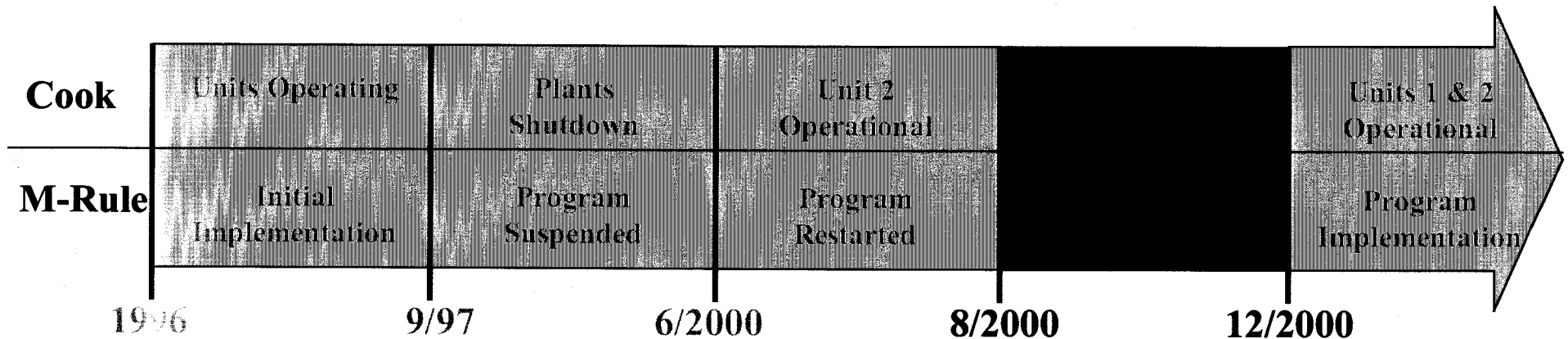


■ Organizational Enhancements

- Program Re-Staffed with experienced personnel
- New Manager and Program Owner
- Expert Panel Reconstituted
 - » Staffing
 - » Training

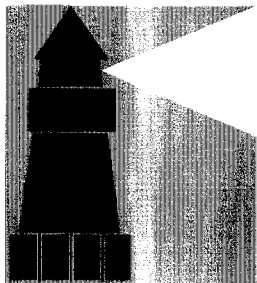


Maintenance Rule: Road to Excellence

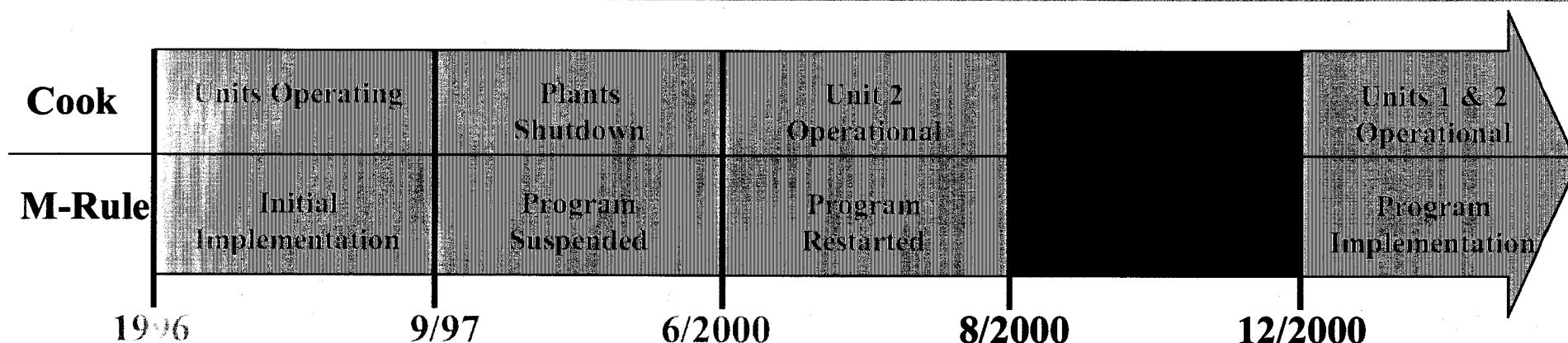


■ Procedures / Process Enhancements

- Process Mapping
- Benchmarking
- Self-Assessments

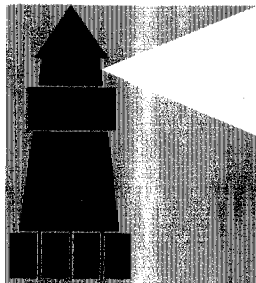


Maintenance Rule: Road to Excellence

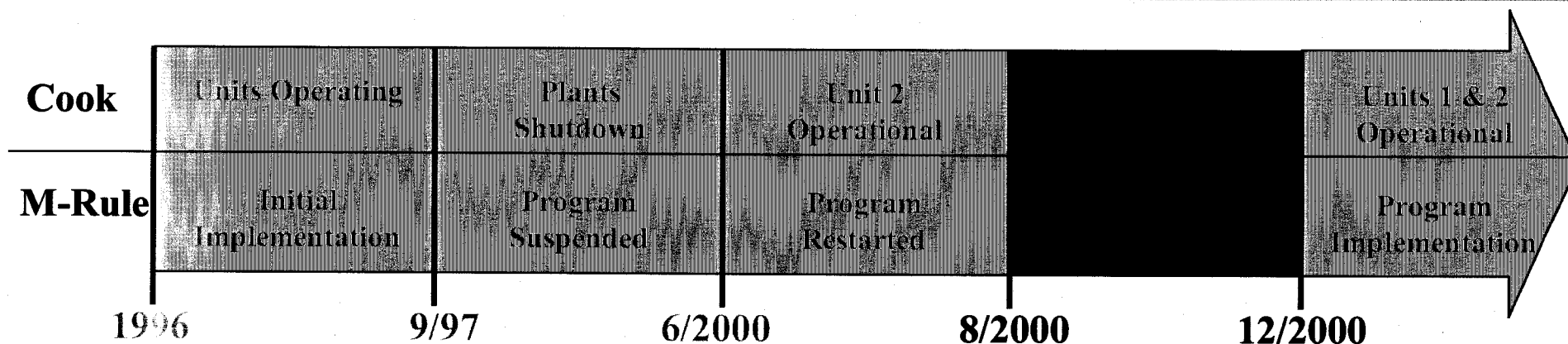


■ **Foundation Recovery**

- **Re-scoping Complete**
- **Historical Performance Review Complete**
 - » **Unavailability**
 - » **Reliability**
- **(a)(1) / (a)(2) Assessments Complete**
- **(a)(1) Action Plans Approved**
- **Database Constructed**



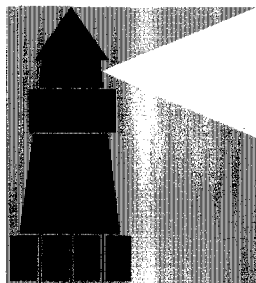
Maintenance Rule: Road to Excellence



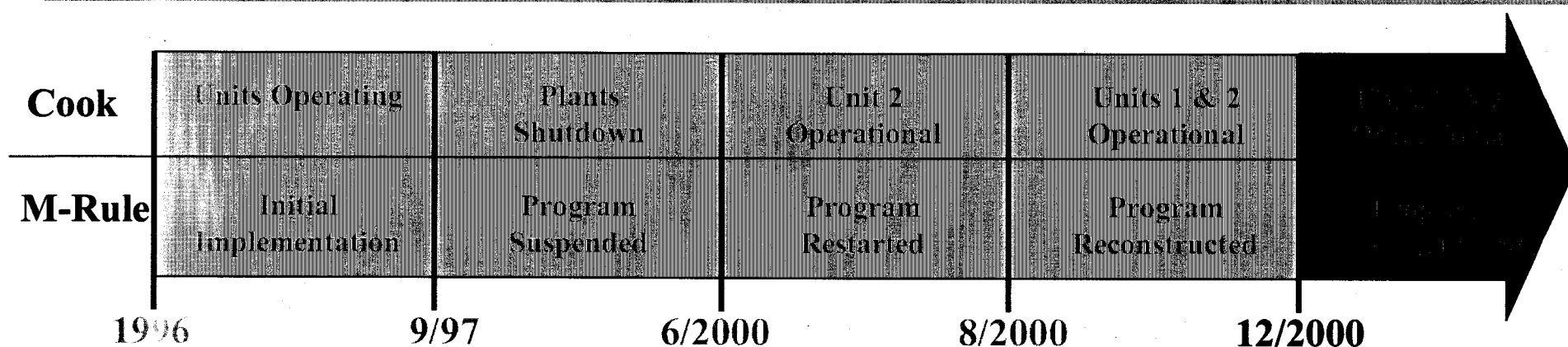
■ Assessments

- Process Mapping
- Programmatic Assessments
- Pre-implementation Assessment (a)(4)
- Recovery Effort Assessment

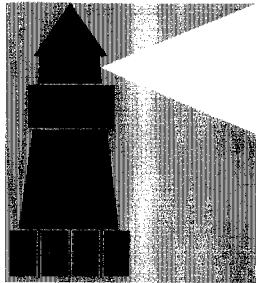
■ Monitoring Effectiveness



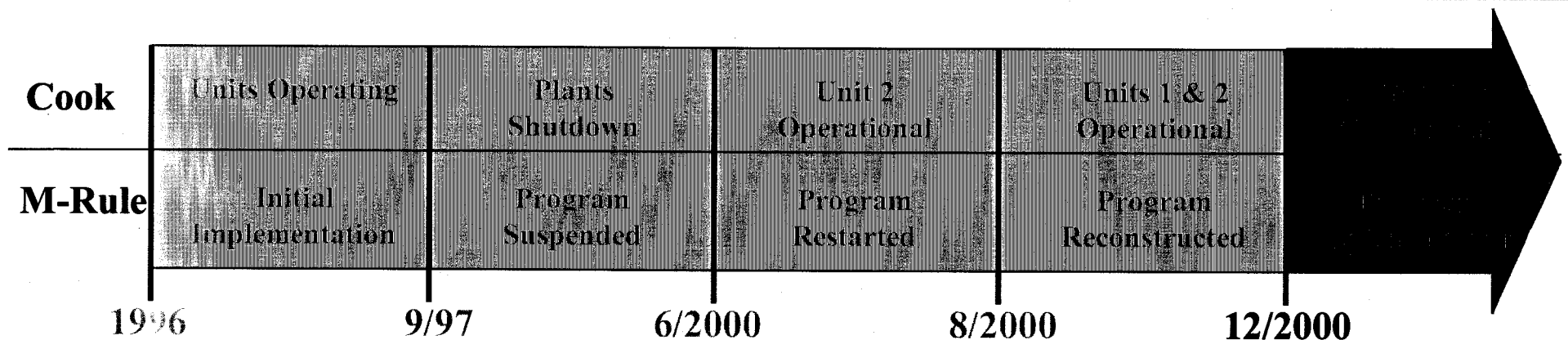
Maintenance Rule: Going Forward



- **Programmatic Enhancements Complete**
- **Continuing To Implement Actions Plans**
- **Program Maturing**
- **Assessments Continue - Learning / Gaining Insights**

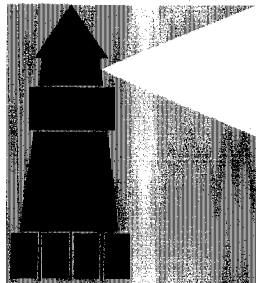


Maintenance Rule: Going Forward



- **Monitoring Quality**
- **Assessments - Check & Adjust**
- **Engaging People - Personal Performance**
- **Pursuing Excellence**

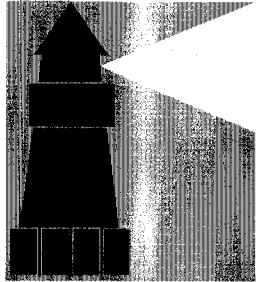
***M-Rule Important to
Long-Term System Reliability***



Engineering Enhancements

Scot Greenlee

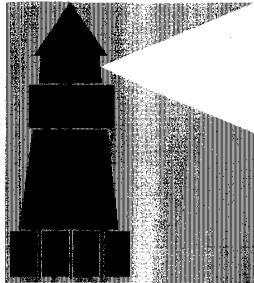
**Director - Design Engineering &
Regulatory Affairs**



Engineering Enhancements: Design Control

- **Historical Perspective**
- **Current Program Implementation**
- **Key Initiatives**
 - Human Performance
 - Assessments & Benchmarking
 - Program Enhancements
- **Going Forward**

***Program Strengthened
Focused on Continued Improvement***



Updated Containment Structures Work Status & Schedule

- **All Containment Structures Remain Operable**
- **Many Margins Improving**
- **On Track with Past Schedule**
- **Missile Shield Blocks Need Further Review --
Remain Operable**

***Methodical & Deliberate Analyses
Proceeding on Schedule***