

RES OPERATIONAL EXPERIENCE DATA AND ANALYSIS

Michael C. Cheok, Assistant Branch Chief Operating Experience Risk Analysis Branch Office of Nuclear Regulatory Research U.S. Nuclear Regulatory Commission

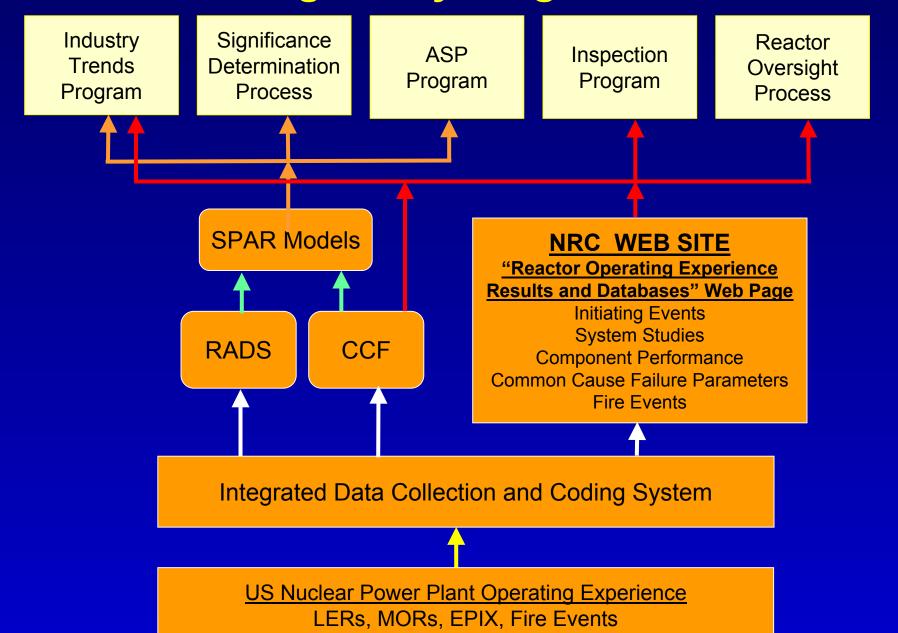
Session F2: Operating Experience, RIC 2005

MARCH 8, 2005

CONTENTS

- Uses of operational data and analyses in NRC regulatory programs
- II. RES role in NRC Operating Experience Program
- III. Longer term studies

Uses of Operational Data and Analyses in NRC Regulatory Programs



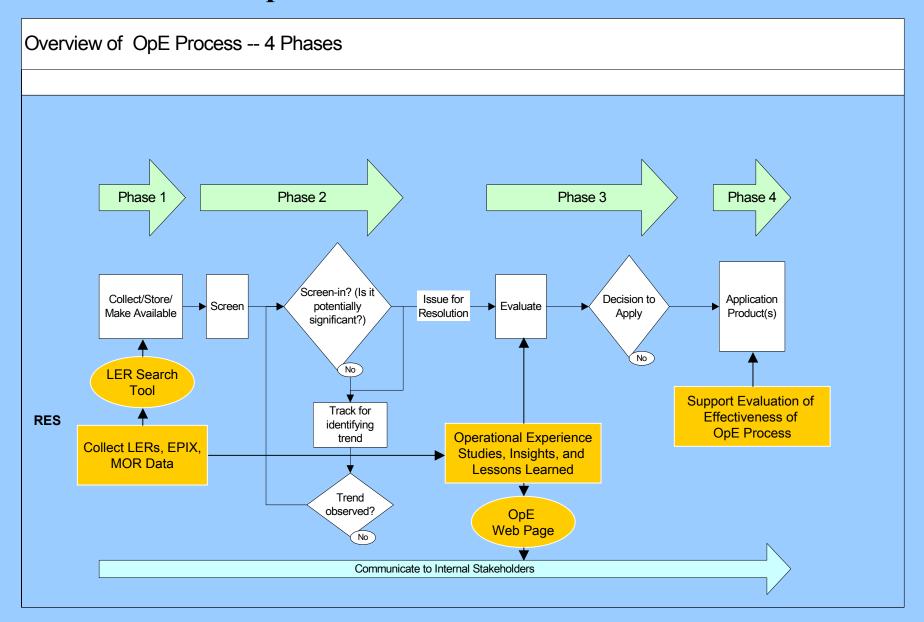
Uses of Operational Data and Analyses in NRC Regulatory Programs (continued)

- Industry Trends Program
 - Monitor industry-wide safety performance
 - Report trends to Congress
 - Enhance plant inspections of significant safety systems
- Significance Determination Process (SDP)
 - Evaluate significance of inspection findings and events using SPAR models

Use of Operational Data and Analyses in NRC Regulatory Programs (continued)

- Accident Sequence Precursor (ASP) Program
 - Report annual performance to Congress
 - Determine safety significance of potential regulatory issues
 - Support Industry Trends Program (ITP)
- NRC Inspection Program
 - Enhance and plan plant inspections focused on the riskimportant systems and components
- Reactor Oversight Process (ROP)
 - Develop risk-informed performance indicators
 - Develop data/methods to risk inform reactor inspections

RES Role in OpE Process



Longer Term Studies

- To identify new or emerging safety significant issues
- To provide insights to enhance regulatory effectiveness
- To share operational experience insights
- To manage Generic Safety Issues Program
- Recent products
 - Effects of Grid Events on NPP Performance, Grid Domain Variations, Generic Issue 43 (Air Systems)
- Future studies (under consideration)
 - Follow on Grid Work, Impact/Lessons Learned of 2004 Hurricane Season, BWR Power Uprate Experience, Contributors to Improved Equipment Reliability