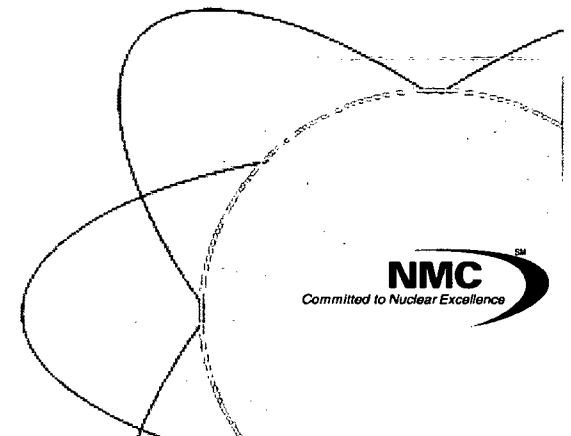


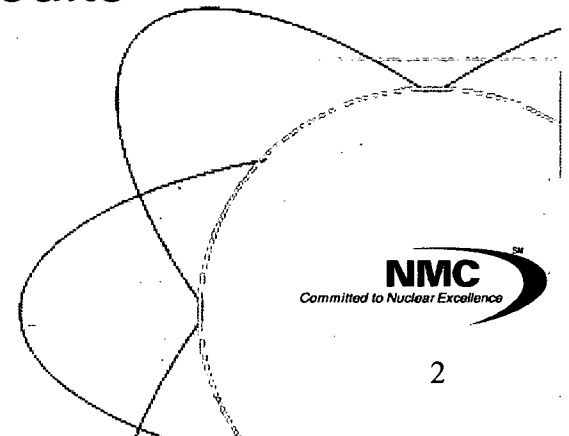
Steam Dryer Evaluation Preliminary Results for Monticello Extended Power Uprate (EPU)

February 13, 2008



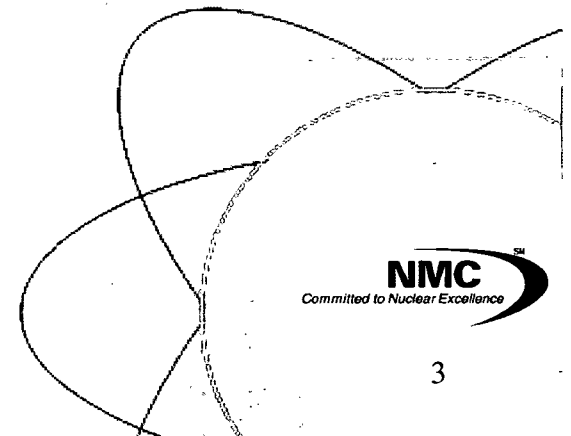
Agenda

- Introductions
 - Objectives
 - Monticello Steam Dryer Information
 - Industry Steam Dryer Information
 - Monticello Steam Dryer Evaluation Approach
 - Closed Session
 - Monticello Steam Dryer Evaluation Results
 - Power Ascension Plan
 - Summary and Conclusion
-



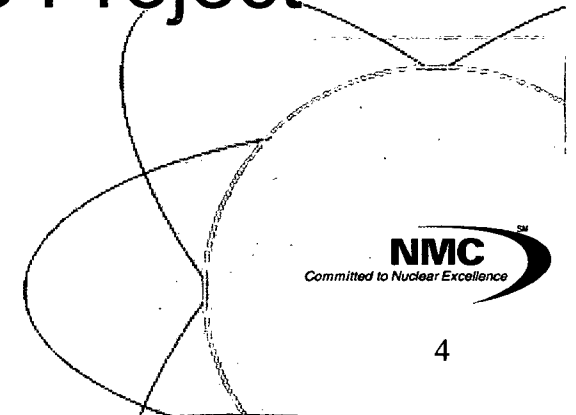
Objectives

- Present results from Monticello steam dryer structural evaluation
- Obtain NRC feedback
- Schedule

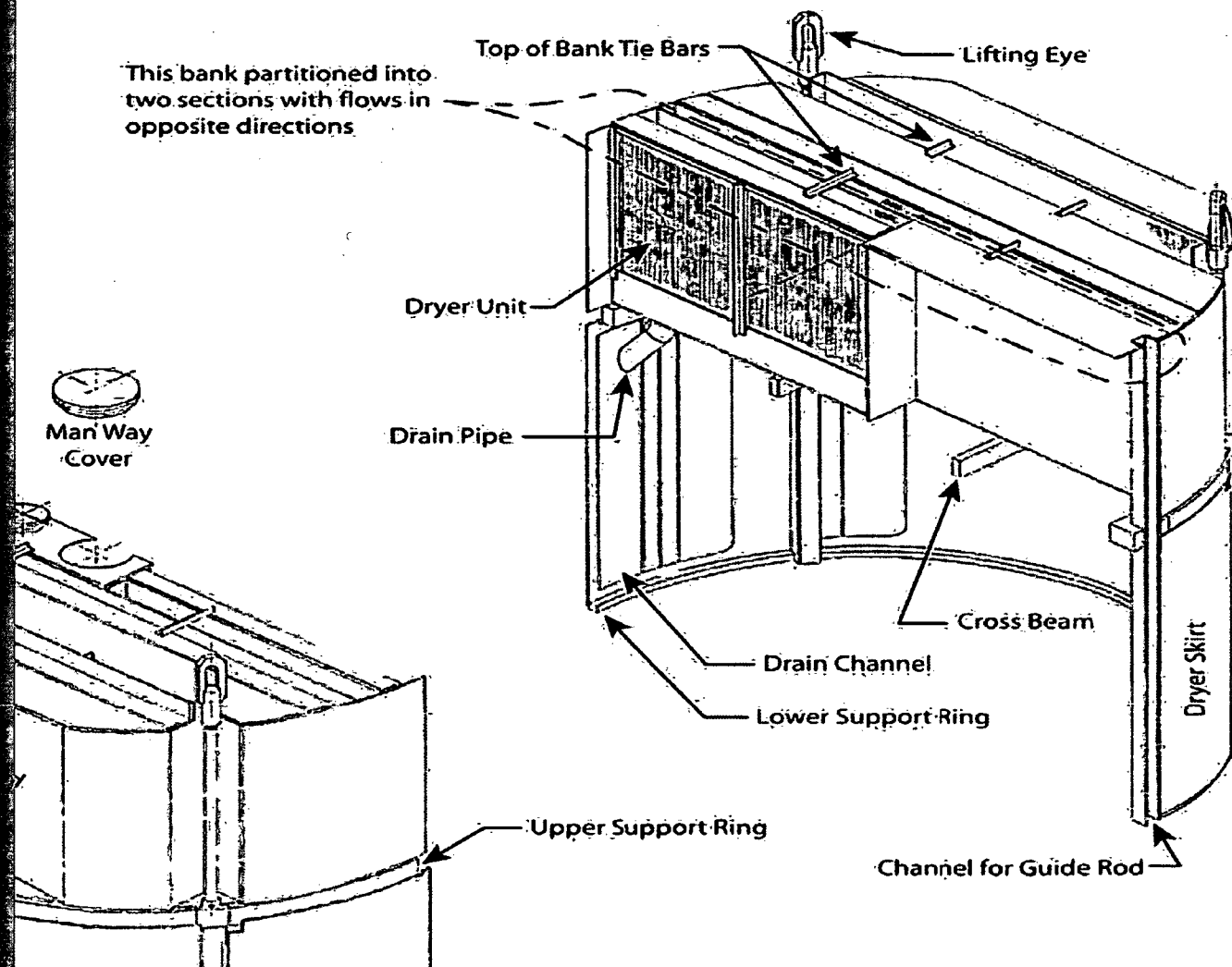


Monticello Steam Dryer Information

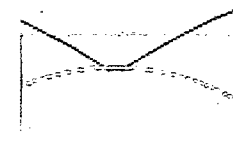
- Square hood design
- Steam dryer licensing basis accident is main steam line break outside of containment
- Steam dryer inspection per Boiling Water Reactor Vessel Internals Project (BWRVIP) 139



Monticello Steam Dryer Information



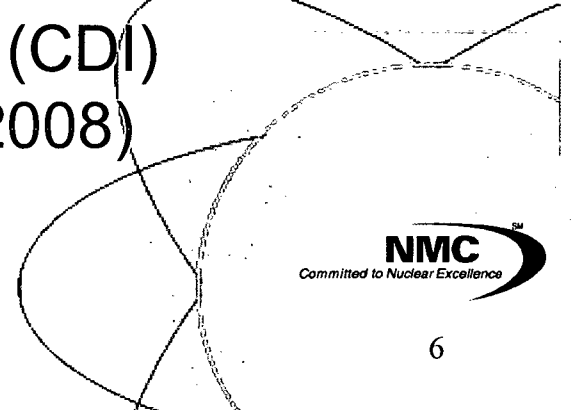
* Representative



NMC
Committed to Nuclear Excellence

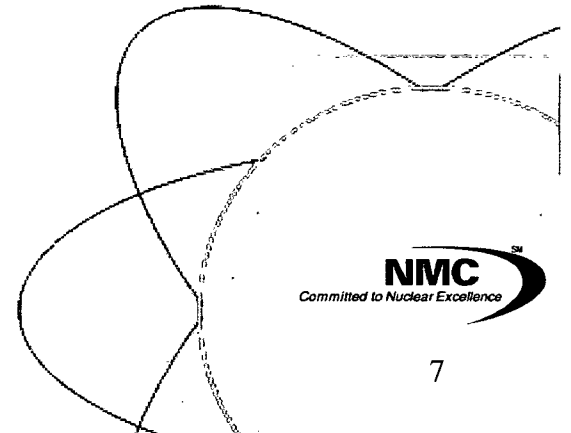
Industry Steam Dryer Information

- EPRI and BWRVIP initiative to provide a consistent steam dryer evaluation method:
 - BWRVIP-182 Guidance for Demonstrating Steam Dryer Integrity for Power Uprate (Submitted January 30, 2008)
 - BWRVIP-XXX Steam Dryer Integrity Demonstration Methodologies Report – based on Continuum Dynamics Incorporated (CDI) technologies (planned submittal late 2008)



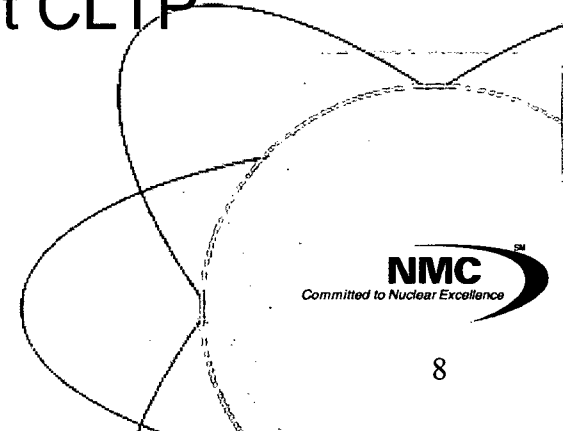
Monticello Steam Dryer Evaluation Approach

- Consistent with:
 - BWRVIP-182
 - Draft BWRVIP Methodologies Report
 - Recent EPU applicants
 - RG 1.20, Revision 3
 - 90-day startup reporting exception



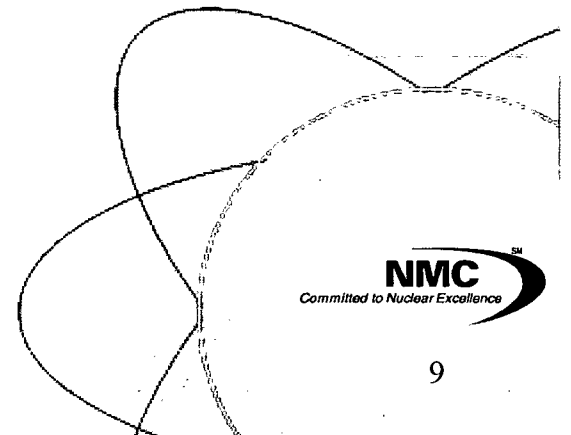
Monticello Steam Dryer Evaluation Approach

- Steam Dryer Analysis (BWRVIP-182)
 - Screening of susceptibility to acoustic excitation validated by scale model tests (SMTs)
 - Strain gage measurements of CLTP main steam line (MSL) acoustics
 - Acoustic circuit model (ACM) of steam dome
 - Load definition at CLTP
 - Finite Element Model (FEM) of dryer at CLTP
 - Limit curves for EPU power ascension



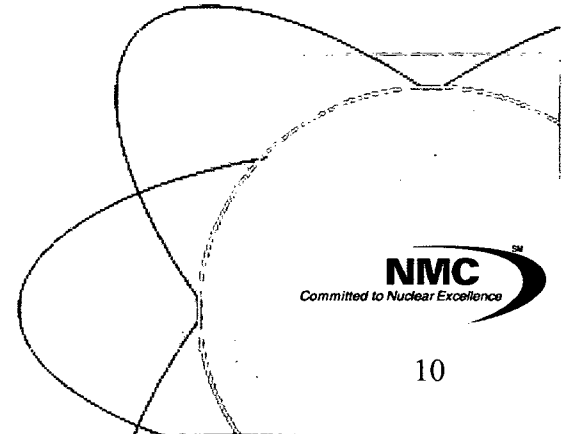
Monticello Steam Dryer Evaluation Results

Closed Session



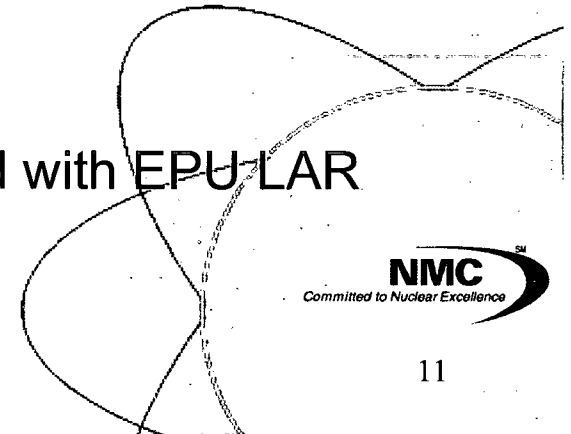
Summary and Conclusions

Open Session

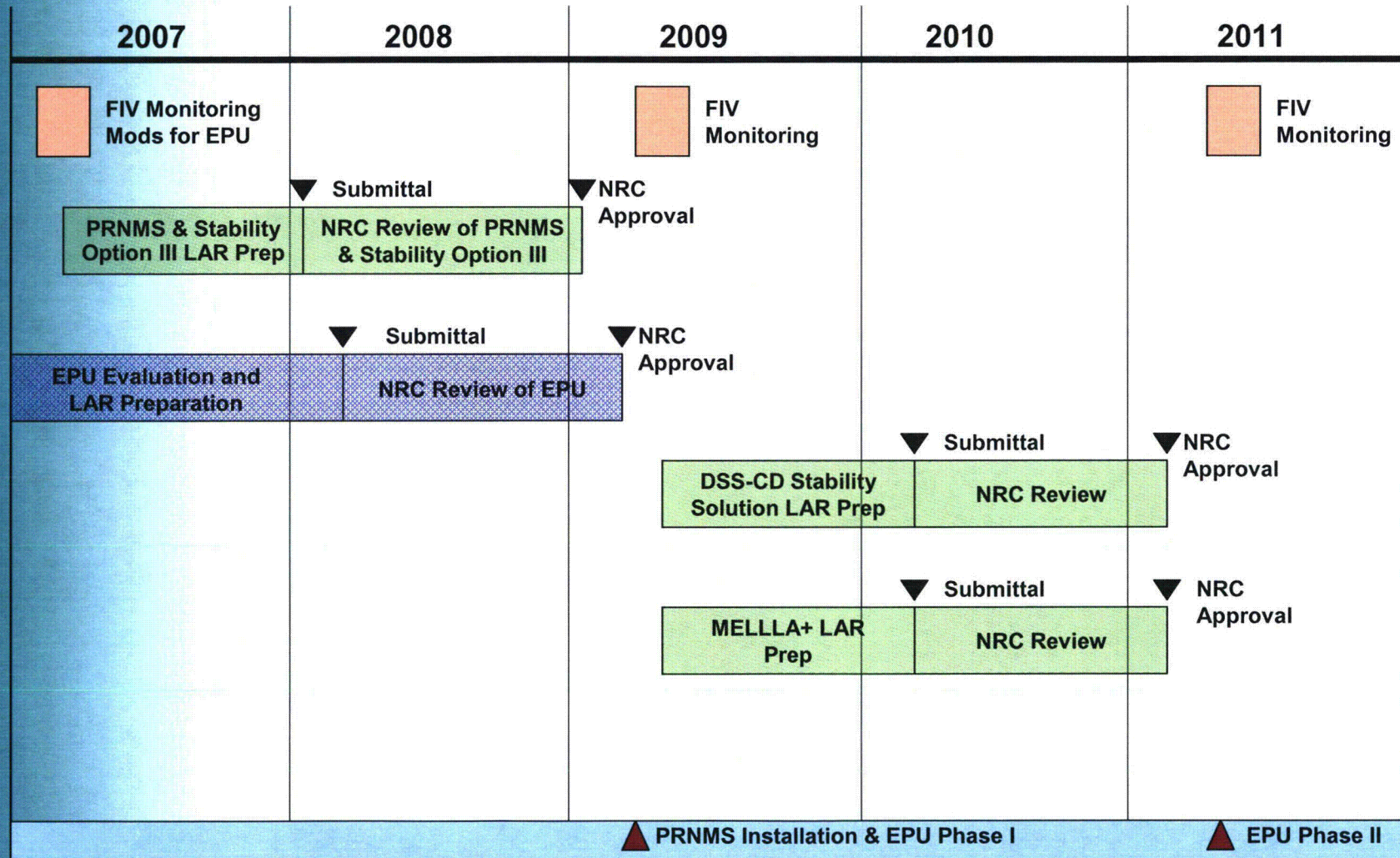



Summary and Conclusions

- Steam Dryer Structural Evaluation Approach
 - Consistent with EPRI/BWRVIP submittal
 - Incorporates industry experience
- Steam Dryer Structural Evaluation Results
 - Acceptable stress ratio
 - Highest stresses occur where expected
- Power Ascension Plan with Dryer Limit Curves
- Schedule
 - Steam dryer structural evaluation submitted with EPU-LAR (first quarter 2008)



Monticello Projects Time Line



 = Implementation