

**COMMISSION BRIEFING SLIDES/EXHIBITS**

**BRIEFING ON STATUS OF DAVIS-BESSE  
LESSONS LEARNED**

# **STATUS OF IMPLEMENTATION OF DAVIS-BESSE LESSONS LEARNED TASK FORCE RECOMMENDATIONS**

**Office of Nuclear Reactor  
Regulation (NRR)**

**Office of Nuclear Regulatory  
Research (RES)**

# **Agenda**

- |  |                     |
|--|---------------------|
| • <b>Overview</b>                          | <b>J. Dyer</b>      |
| • <b>Stress Corrosion<br/>Cracking</b>     | <b>W. Bateman</b>   |
| • <b>Operating<br/>Experience</b>          | <b>T. Reis</b>      |
| • <b>Inspection Program<br/>Management</b> | <b>S. Richards</b>  |
| • <b>Barrier Integrity</b>                 | <b>A. Lee</b>       |
| • <b>Regional Activities</b>               | <b>E. Merschoff</b> |
| • <b>Summary</b>                           | <b>J. Dyer</b>      |

# **Overview**

## **Initial Plan Project Controls**

- **Action Plans developed for 21 High Priority items**
- **Remaining items integrated into individual Office operational activities via Planning, Budgeting and Performance Management (PBPM) process**

# **Overview**

## **Enhanced Project Controls**

- **Office Executive Level approval of schedule changes and completion**
- **Timely Completion**
- **Effectiveness Reviews**

# Overview

## Status of Implementation

<b>Priority</b>	<b>Total No.</b>	<b>Completed As Of</b>	
		<b>Feb 04</b>	<b>Dec 04</b>
<b>High</b>	<b>21</b>	<b>7</b>	<b>15</b>
<b>Medium</b>	<b>16</b>	<b>3</b>	<b>15</b>
<b>Low</b>	<b>12</b>	<b>6</b>	<b>10</b>

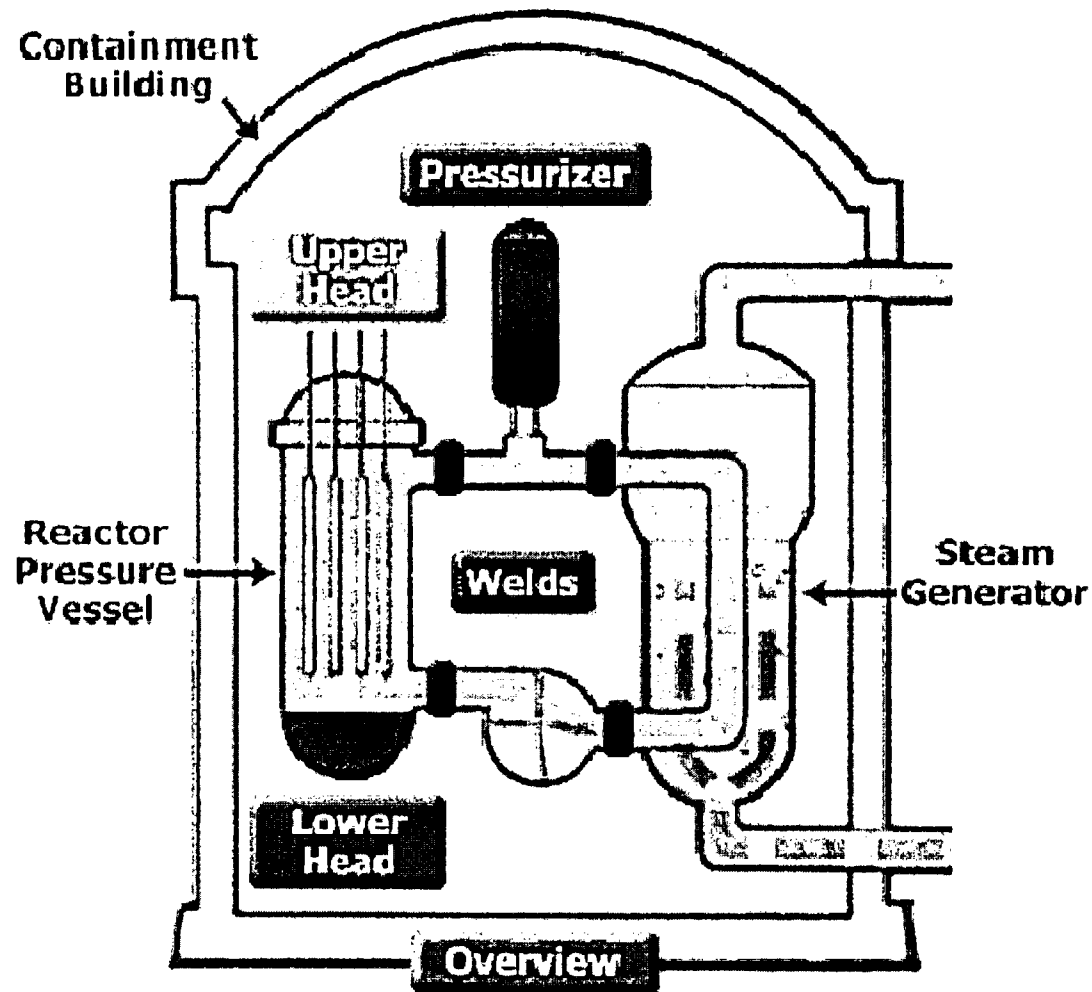
# **Overview**

## **Status of Implementation**

### **Remaining Items:**

- **7 to be completed by May 05**
- **1 may require regulatory actions to implement working group recommendations**
- **1 depends on ASME actions**

# Stress Corrosion Cracking





# **Stress Corrosion Cracking**

- **Closed Actions**
  - **Assessment of foreign and domestic Alloy 600 Stress Corrosion Cracking and Boric Acid Corrosion**
  - **Temporary Instructions**
  - **Revised NRC In-service Inspection Activities Procedure**

# **Stress Corrosion Cracking**

- **Remaining Actions**
  - **SRM Direction on SECY 04-0115, Rulemaking Plan For Upper Head Inspections**
  - **Boric Acid Corrosion Inspection Program Review**
  - **Update Project Manager's Handbook**

# **Stress Corrosion Cracking**

- **Increased Sensitivity to Materials Degradation**
  - **Increased Generic Correspondence on Issues**
  - **Enhanced Inspection Guidance**
- **Enhanced Communications**
  - **Stakeholders**
  - **Intra-agency**

# **Stress Corrosion Cracking**

- **Challenges**
  - **American Society of Mechanical Engineers (ASME) Code Activities**
  - **Effectiveness Reviews**
- **Continue to Review Future Inspection Results For Improvements**

# **Operating Experience**

- **Feb 26 Briefing Status– NRR and RES had endorsed recommendations of interoffice task force**
  - **Committed to develop plan by 4/04**
- **Framework to be established by 12/04**
  - **Program will be dynamic and continuous improvements will occur**

# **Operating Experience**

- **Continuing Improvements**
  - **Improved screening structure**
  - **Improved, prompt feedback**
  - **Improvements in web access**
  - **Foreign operating experience**

# **Operating Experience**

- **Plan issued April 29, 2004**
  - **Modular Approach to Developing Framework**
    - **Clearinghouse Module**
    - **Procedures Module**
    - **Information Technology Module**
    - **Effectiveness Module**

# **Operating Experience**

- **Operating Experience Program is designed to meet accepted Objectives and Attributes of NRC Operating Experience Program**

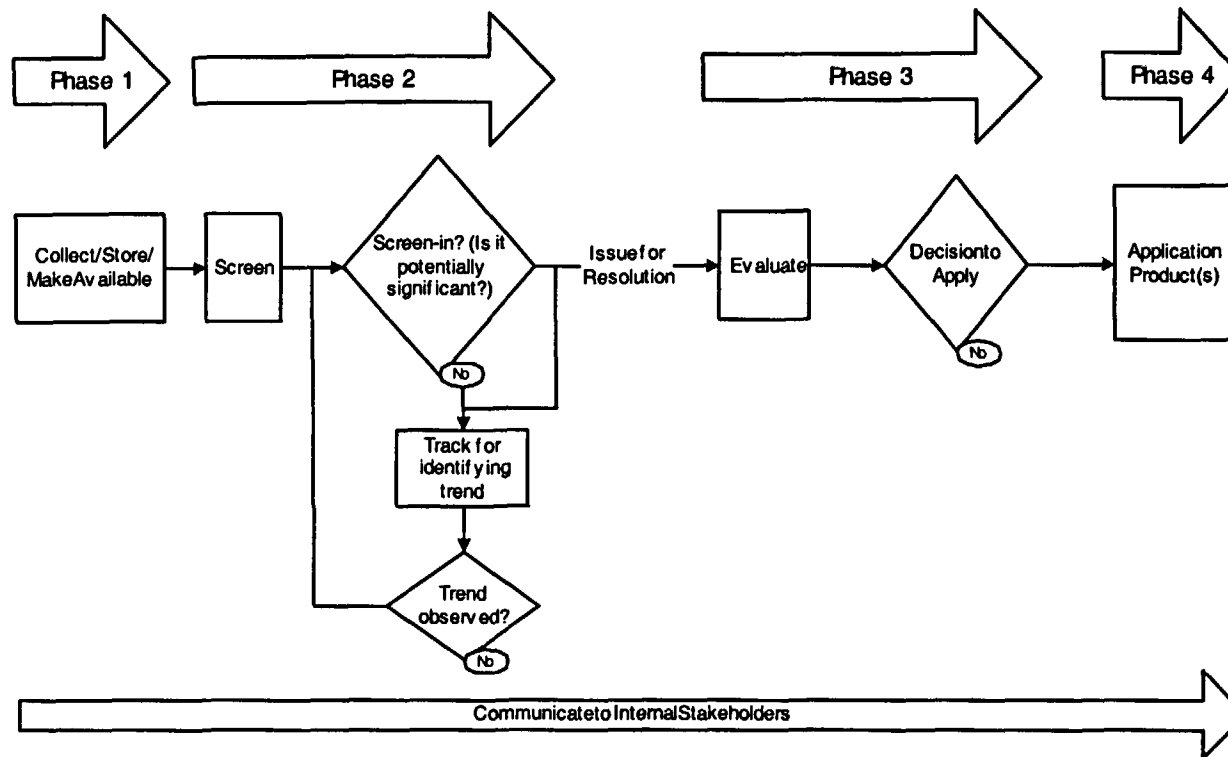


# **Operating Experience**

- **Overarching principle**
  - **Program will support core agency programs and provide for informed decision making and facilitate continuous improvement of core programs**

# Program at a Glance

## Overview of Clearinghouse Operation -- 4 Phases



# **Operating Experience**

- **Implementation Challenges**
  - **Resource intensive**
  - **Effectiveness of Interoffice Coordination.**

# **Operating Experience**

- **Generic Communication Effectiveness**
  - **Sampling Effort**
  - **Program Changes**
- **Continual Efforts in this area**

# **Inspection Program Management**

- **LLTF recommendations:**
  - **Longstanding issues**
  - **Inspector training**
  - **Plant assessment process**
  - **Generic communications and licensee commitments**
  - **Project Manager responsibilities**

# **Inspection Program Management**

- **Recent program revisions:**
  - **Containment walkdowns**
  - **Walkdowns in other restricted areas**
  - **Deferred modifications**
  - **Multiple, repetitive, unplanned Technical Specification actions**

# **Inspection Program Management**

- **Other LLTF recommendations:**
  - **Interim Plant Performance Review process**
  - **annual ROP refresher training**
  - **review of previous lessons learned reports**
  - **Project Manager expectations**

# **Inspection Program Management**

- **LLTF action items under review:**
  - **metric for resident inspection staffing**
  - **review of previously deleted inspections**



# **Inspection Program Management**

- **Challenges:**
  - **Increased inspection of licensee employee concerns programs and safety conscious work environment**
    - **SRM issued August 30, 2004**
    - **cross-cutting issues**
    - **inspector training**

# **Barrier Integrity**

- Improve requirements**
  - reactor coolant system leakage**
  - leakage monitoring systems**
- Improve NRC inspection procedures**
- Evaluate adequacy of risk assessment of passive components**

# **Barrier Integrity**

- **2 high priority recommendations completed on schedule.**
  - **Plant technical specifications**
  - **Alarm response procedures**
- **4 remaining high priority recommendations and 1 medium priority recommendation are on schedule.**

# **Barrier Integrity**

## **Improving coolant leakage requirements**

- **Enhanced online detection systems**
- **Improved leakage requirements**
  - **Unidentified vs RCPB leakage**
  - **No power operation with RCPB leakage**

# **Barrier Integrity**

## **Improving coolant leakage inspection procedures**

- **Action levels to trigger increasing levels of interaction with NRC in response to increasing levels of unidentified RCS leakage. (High)**
  - **Licensees required to trend leak rates**
  - **Inspectors review licensee procedures for action steps**

# **Barrier Integrity**

## **Improving Coolant Leakage Inspection Procedures**

- **Review and improve the usefulness of barrier integrity performance indicators. (High)**
  - **Industry-NRC working group has been formed and is discussing possible alternatives.**

# **Barrier Integrity**

## **Risk Assessment of Passive Component Degradation**

- **NRR/RES working group formed in July 2004**
  - **Adequacy of RA model for passive components**
  - **Integration into regulatory decision making process**

# **Barrier Integrity Challenges**

- **RCS leakage rate limit**
- **Barrier Integrity PIs**
- **Risk assessment of passive components**
- **Effectiveness review and implementation**



# **Barrier Integrity Summary**

**All 6 high priority recommendations  
are on schedule**

**- 2 have been completed.**

**1 medium priority recommendation  
is on schedule.**

# **Regional Activities**

- **Davis-Besse Lessons Learned reviewed from regional operations perspective**
- **Review Discussed**
  - **Regional Administrators**
  - **Director NRR**
  - **Deputy EDO for Reactor Programs**

# **Regional Activities**

- **Resulted in a Regional Best Practices Benchmarking Process**
  - **Morning Meetings (complete)**
  - **Incident Response (complete)**
  - **Management Roles and Responsibilities (March 2005)**
  - **Inspector Field Observations (June 2005)**
  - **Operating Experience (Oct 2005)**

# **Summary**

- **Significant progress on implementing recommendations**
- **Activities have resulted in significant positive outcomes for the agency and nuclear industry**