

**COMMISSION BRIEFING SLIDES/EXHIBITS**

**BRIEFING ON NRC LESSONS LEARNED:**

**DAVIS-BESSE RVH DEGRADATION**

**JANUARY 14, 2002**



# **DAVIS-BESSE REACTOR VESSEL HEAD DEGRADATION LESSONS- LEARNED TASK FORCE**

**Art Howell, Director, DRP  
Region IV**

## **Lessons-Learned Task Force (LLTF) Background**

---

- **Formed in May 2002**
- **Conducted an independent evaluation**
- **Conducted public meetings**
- **State of Ohio Observer**

## **LLTF Background Cont'd**

---

- **Reviewed:**
  - **Reactor oversight process**
  - **Regulatory processes**
  - **Research activities**
  - **International practices**
  - **Generic Issues program**

3

## **LLTF Background Cont'd**

---

- **Proposed recommendations for improvements**
- **Final report issued in September 2002**
- **NRC staff briefings ongoing**
- **Briefed ACRS**

4

## **Overview of Results**

---

- **Potential for this type of problem was previously recognized**
- **During 1990s, vessel head penetration axial nozzle cracking was not considered an immediate safety concern**

5

## **Overview of Results Cont'd**

---

- **Lessons-learned involving the unpredictability of boric acid-induced corrosion rates were not well recognized**

6

## **Overview of Results Cont'd**

---

- **NRC and industry follow up of relevant operating experience**
- **FirstEnergy attention to plant safety issues at Davis-Besse**
- **NRC integration of information**

7

## **Overview of LLTF Recommendations**

---

- **Improve inspection guidance**
- **Assess effectiveness of operating experience review processes**
- **Encourage changes to ASME Code inspection requirements**

8

## **Overview of LLTF Recommendations Cont'd**

---

- **Conduct staff training**
- **Assess leakage monitoring requirements and methods**
- **Assess stress corrosion cracking and boric acid corrosion data**

9

## **Overview of LLTF Recommendations Cont'd**

---

- **Enhance licensing guidance and reinforce expectations**
- **Assess effectiveness of actions stemming from previous NRC lessons-learned reviews**

10



## **SENIOR MANAGEMENT REVIEW TEAM**

**Carl J. Paperiello  
Deputy Executive Director  
for Materials, Research and  
State Programs**

## **Senior Management Review Team**

- **Formed October 3, 2002**
- **Reviewed the LLTF Report**
- **Developed plan to address LLTF recommendations**

## **Senior Management Review Team**

- **Carl Paperiello, Chair**
- **Samuel Collins, Director, NRR**
- **Martin Virgilio, Director, NMSS**
- **Ashok Thadani, Director, RES**
- **Ellis Merschoff, Administrator,  
Region IV**
- **Janice Moore, OGC**

3

## **Senior Management Review Team**

- **Agreed with LLTF  
recommendations with two  
exceptions**
- **Prioritized recommendations**

4



## **Senior Management Review Team**

- **Integrated LLTF recommendations into four overarching categories**
- **Proposed implementation time frames for high priority recommendations**

5