



## RIC 2011 Industry Operational Performance and Trends

Martin J. Virgilio, Deputy Executive Director for  
Reactor and Preparedness Programs  
March 8, 2011

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### Housekeeping Notes

- **Cell Phones, PDA's and Electronic Devices** – Please silence your cell phones and other electronic devices.
- **Exiting During a Session** – If you need to leave during a session, please wait for a break between speakers.
- **Exiting at the End of a Session** – Conference participants are encouraged to leave the meeting room promptly so that the next session can begin on time.

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### Session Presenters

- **Marty Virgilio, DEDR**
- **Elmo Collins, Region IV Regional Administrator**
- **Mark Satorius, Region III Regional Administrator**
- **Bill Dean, Region I Regional Administrator**
- **Victor McCree, Region II Regional Administrator**

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## Introductory Remarks

**Marty Virgilio, Deputy Executive Director  
for Reactor and Preparedness  
Programs**

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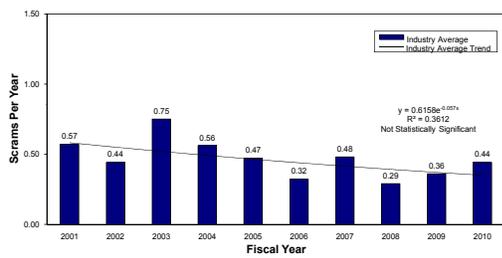
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## Reactor Automatic Scrams while Critical



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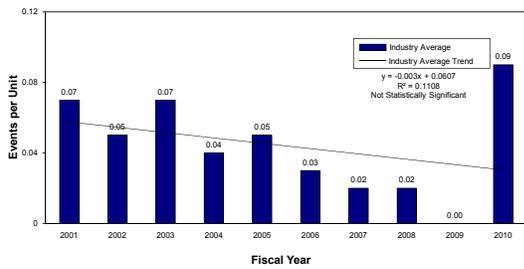
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## Reactor Significant Events



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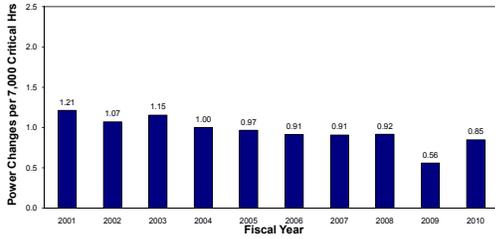
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### Unplanned Power Changes



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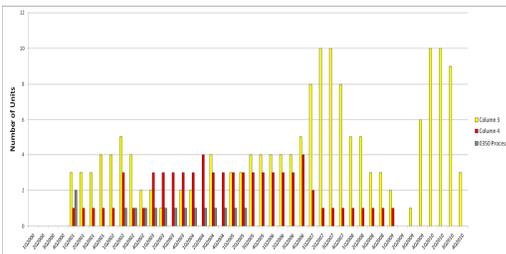
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### Plants in ROP Action Matrix Cols. 3 & 4



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### Session Topics

- NRC Programs for Accessing and Conveying Operational Experience – Elmo Collins
- Performance Issues with Independent Spent Fuel Storage Facilities (ISFSIs) – Mark Satorius
- Security Performance Findings and Trends – Bill Dean
- Insights on Operating Crew Performance – Victor McCree

A Q&A session will follow each presentation

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### **NRC Program Overview**

- **Industry Trends Program**
- **Accident Sequence Precursor (ASP) Program**
- **Operating Experience Program**

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### **Key Performance Insights**

- **Reactor Trips/Scrams**
- **Significant Events**
- **Reactor Oversight Program Results**

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### **ISFSI Pre-Operational Performance Issues**

- **Requirements for Spent Fuel Cask Stability During Transfer**
- **Control of Heavy Loads Evaluations for Cask Movements**
- **ISFSI Pad Evaluation and Construction**

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### **ISFSI Operational Performance Issues**

- **Command and Control of ISFSI Operations**
- **Adherence to System Design and Licensing Basis**
- **Equipment Failure During Cask Heavy Loads Operations**

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### **Increasing Trend in Security Findings of Significance (Region I)**

- **Security findings of significance have substantially increased**
- **Findings related to package searches, security openings and Safeguards Information (SGI) control**
- **Events involve multiple plants and licensees**

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### **Increasing Trend in Security Findings of Significance (Nation-wide)**

- **Other Regions seeing an increase in Green/Greater-than-Green findings**
- **Possible causes:**
  - Security facilities/hardware changes
  - Electronic storage/transfer of SGI data
  - Revised Significance Determination Process (SDP) in late 2009
  - Still issues with unattended security openings

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## Operating Crew Performance

- Perspectives on Operating Crew Performance
- H.B. Robinson Reactor Trip/Fire Event, March 2010
- Operating Crew Readiness Insights
  - Fewer Operational Challenges
  - Control Room Operator Experience
  - Use of Knowledge Based EOPs
  - Staff/Crew Composition
  - Training Scenario Complexity

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## Operating Crew Performance

- Operating Experience Smart Sample
- Potential Revision to NRC's Licensed Operator Requalification Program Procedure
- INPO Interface

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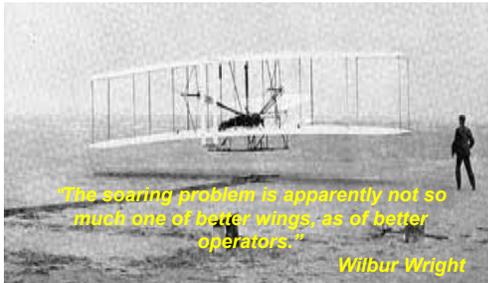
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## Operating Crew Performance



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### General Information

- **Audio Recording of Session** – All sessions are being recorded; Audio recordings will be available on the RIC website after the conference.
- **Unanswered Questions** – Questions that are not answered during this session will be posted along with the answers on RIC website after the conference.
- **Presentation Materials** – All electronic presentations will be posted on the RIC website after the conference.

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