

RIC 2003

Reactor Oversight Process, Session W5

Past Insights and Future Challenges

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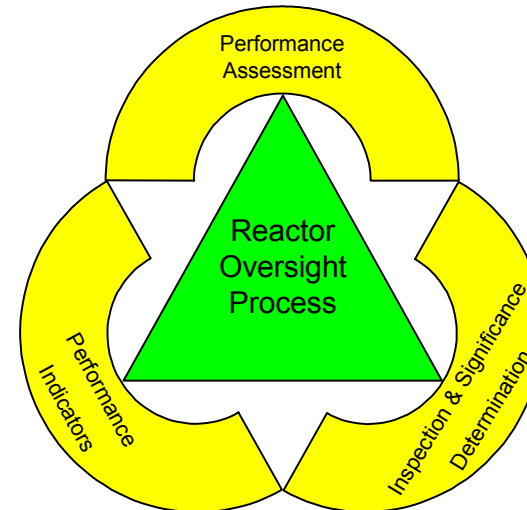


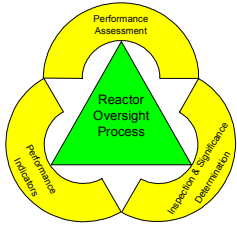
United States Nuclear Regulatory Commission

REACTOR OVERSIGHT PROCESS (ROP)

Past Insights and Future Challenges

- Inspection
- Performance Indicators
- Performance Assessment
- Significance Determination Process



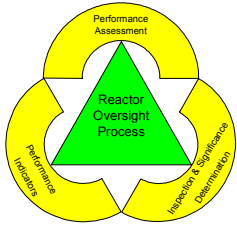


ROP - Past Insights and Future Challenges

Performance Indicators (PI)

Accomplishments

- Completion of Mitigating Systems Performance Index (MSPI) pilot with 11 licensees
- Continuing to develop thresholds for Industry Performance Indicators

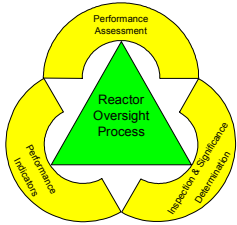


ROP - Past Insights and Future Challenges

Performance Indicators

Challenges

- Mitigating Systems Performance Index
- Concern over whether the PIs provide an adequate indication of declining safety
- Enhance current or develop new ROP Performance Indicators
 - Barrier Integrity
 - Safety System Unavailability
 - Reactor scram with loss of normal decay heat removal
- Industry Initiating Event Performance Indicator (IIEPI)

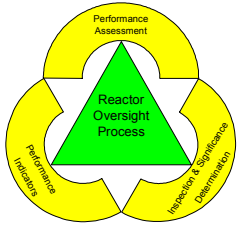


ROP - Past Insights and Future Challenges

Inspection

Accomplishments

- Issued IMC 0612, “Power Reactor Inspection Reports”
- Efficiency Focus Group
- Developed self-assessment performance metrics

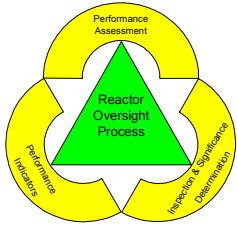


ROP - Past Insights and Future Challenges

Inspection

Challenges

- Credit for licensee self-assessment
- Regional Assessments
- Integrate and revise Physical Protection Cornerstone inspection area
- Resource challenges for completing baseline inspection program (CY02/CY03)

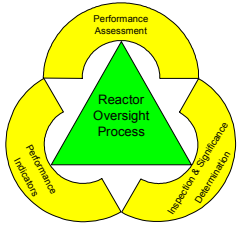


ROP - Past Insights and Future Challenges

Significance Determination Process

Accomplishments

- SDP Improvement Initiatives
- Revised existing SDPs
- Benchmarking of Phase 2 notebooks
- SDP active issues matrix
- SDP Task Group

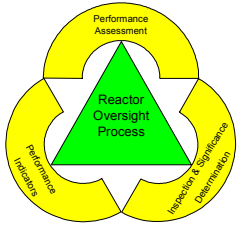


ROP - Past Insights and Future Challenges

Significance Determination Process

Challenges

- Implement SDP Task Group recommendations
- Improve existing or develop new SDP's
 - fire protection
 - shutdown risk
 - S/G tube integrity and containment
- Improve SDP timeliness (<90 days)

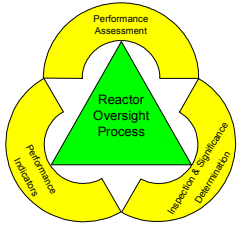


ROP - Past Insights and Future Challenges

Assessment

Accomplishments

- Clarification of old design issues
- Clarification of IMC 0305 for Multiple/Repetitive Degraded Cornerstone plants
- Thresholds for substantive cross-cutting issues



ROP - Past Insights and Future Challenges

Assessment

Challenges

- Evaluate treatment of substantive cross-cutting issues
- Enhance IMC 0350, Oversight of Shutdown Reactors with Performance Problems
- Enhance ability to detect declining performance in a timely manner (e.g., reactor vessel head degradation at Davis-Besse)