COMMISSION BRIEFING SLIDES

BRIEFING ON RESULTS OF REACTOR OVERSIGHT PROCESS INITIAL IMPLEMENTATION

JULY 20, 2001

Results of Initial Implementation Reactor Oversight Process



Commission Briefing July 20, 2001

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Introduction

- Background
- Feedback and self-assessment activities
- Results
- Lessons learned
- Resources
- N+1
- Conclusions

Background

- August 1998
 - Concept Development began
- November 1999
 - Six Month Pilot completed
- April 2000
 - ROP Initial Implementation began
- July 2001
 - Provided results of ROP Initial Implementation (SECY-01-0114)

Feedback and Self-assessment Activities

- Internal and External Feedback Activities
- Self-assessment Activities
- Oversight Activities
 - IIEP
 - ACRS

Overall Results

- Exercised the process
- Improvement over previous process
- Has achieved Commission goals
- Consolidate gains and move forward

Overall Results *Inspection Findings April 2000 to March 2001*

22 Findings (White or Greater) processed by SERP

Cornerstone	White	Yellow	Red
Initiating Event			1
Mitigating Systems	6	3	
Barrier Integrity			
Emergency	5		
Preparedness			
Public Radiation Safe	ty 1		
Occupational Radiation	on 5		
Safety			
Physical Protection	1		

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Overall Results *Performance Indicators January 2000 to March 2001*

<u>Cornerstone</u>	White Threshold <u>Crossed</u>	Yellow Threshold <u>Crossed</u>
Initiating Events	7	-
Mitigating Systems	21	1
Emergency Preparedness	6	1
Barrier Integrity	2	1
Occupational Radiation	1	-
Safety		
Public Radiation Safety	-	-
Physical Protection	4	1

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Overall Results Plant Performance Summary April 2000 to March 2001

Action Matrix Column	Number of units
Licensee Response	67
Regulatory Response	28
Degraded Cornerstone	5
Multiple/Repetitive Degraded Cornerstones	1
Unacceptable Performance	None

FEEDBACK Internal Stakeholders

Generally positive

- Provides assurance plants are operated safely
- Objective and risk informed
- Improvement over previous process

Progress compared to 1999 survey

Areas Warranting Continued Attention

- Ease of use of SDP
- Timely handling of feedback

FEEDBACK External Stakeholders

Majority generally positive

- Increased predictability of agency actions
- More objective and understandable

Areas warranting attention:

- Performance Indicator refinement
- SDP slow, complex, burdensome

Diverse Perspectives

- ROP step backward, poorly focused
- ROP will not identify declining performers

Self-Assessment Metrics

- Process:
 - Provide systematic approach to evaluating key aspects of ROP
 - Uses input from feedback, RPS, Audits
 - Results provided in quarterly updates & annual report
- Results:
 - More objective, risk-informed, understandable and predictable
 - More data/time required to assess remaining criteria
 - Current results were factored into ROP self-assessment
 - Process refinement is likely

Lessons Learned: Inspection Program

- Successes:
 - Identifies significant safety issues
 - Greater focus on risk important areas
 - Near 100% completion of the program
- Improvement Areas
 - Documenting basis for significance of findings
 - Significant changes to some inspection procedures (IPs)
 - frequency, scope, level of effort
 - Dealing with inspections/findings unrelated to risk

Lessons Learned: Inspection Program

• Actions:

- Inspection Reports (IMC 0610*)
 - Continue evaluating and revising
 - Examples
- Significant changes to some IPs
 - ISI, PI&R, MR
 - Physical Protection
 - ALARA
- Evaluate the potential use of licensee self-assessments

Lessons Learned: *Performance Indicators*

- Successes:
 - Improved performance
 - Meaningful insights on performance
 - Fewer accuracy concerns than anticipated
- Improvement Areas
 - SCRAM and unplanned power changes
 - Safety System Unavailability

Lessons Learned: *Performance Indicators*

- Actions:
 - Piloted replacement PI for SCRAM
 - Potential replacement for Unplanned
 Transients PI
 - -Standard definition for SSU

Lessons Learned: Significance Determination Process

- Successes:
 - Improved inspector awareness of plant specific risk
 - Focus agency and licensee resources
 - SRA program provided risk analysis support
- Improvement Areas
 - More timely assessment for findings greater than Green

Lessons Learned:

Significance Determination Process

• Improvement Areas (continued):

– Complexity of SDP

- fire protection
- reactor safety
- safeguards
- shutdown risk
- containment SDP

- Benchmarking SDP Phase 2 Worksheets

Lessons Learned: Significance Determination Process

• Actions:

– Timeliness

- Fewer Phase 3 evaluations because of Phase 2 notebooks
- Improve the Significance and Enforcement Review Panel (SERP) process
- More realistic goals where applicable

– Complexity

- BNL developing Phase 2 for shutdown
- New safeguards SDP
- Improving tools for assessing fire scenarios
- SDP instructional aids

- Benchmarking

• Continue to upgrade Phase 2 notebooks

Lessons Learned: Enforcement

• Successes:

- Actions more predictable
- Actions not driving assessment

Improvement Areas:

- Timeliness and communicating results of SDP and enforcement process
- Maintenance Rule issues
- Actions:
 - Make SDP more timely
 - Suspend MR panels

Lessons Learned: Assessment

- Successes:
 - NRC actions more predictable
 - Improved objectivity
 - Assessment meetings improve efficiency
- Improvement Areas:
 - Historical findings
 - No color findings
 - Dwell time for inspection findings

Lessons Learned: Assessment

Actions:

- Improve guidance regarding treatment of historical issues
- Evaluate graded reset for inspection findings
- Develop program modifications to address no color findings

Resources *Overall Results*

- Actual expenditures compare favorably with estimates
- Expenditures slightly greater than prior to initial implementation
 - Actual expenditures for 52 weeks following start of initial implementation were slightly greater than 52 weeks prior
 - Comparisons are problematic

Resources Conclusions

- Premature to implement further reductions
- Areas targeted for future efficiencies
 - elimination of start-up costs
 - implementation of quarterly inspection reports
 - SDP savings
 - identification of direct inspection activities that warrant reduced inspection
- Additional factors exist that may impact resource needs
 - institutional inefficiencies in implementing "N"
 - inefficiencies due to increases in vacancies filled at entry level
 - potential areas warranting additional resources (ISFSI)

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Transition from "N+1" to "N"

Agency has essentially transitioned to "N"

- Assistance provided to complete baseline inspections at multi-unit sites @ "N"
- Potential challenges for unique sites
- Overall impact on resident inspection program not fully known
 - Maintaining site coverage
 - Reduced opportunities for training and professional development

Transition from "N+1" to "N"

• Actions:

- Consider allocation of additional regional resources for unique multi-unit sites
- Develop metrics to measure resident inspection program quality attributes

Conclusions

- ROP has met goals established by the Commission
- Continue to address lessons learned from initial implementation
- Continue periodic self-assessments to identify areas for improvement
- Identify additional resource efficiencies



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