



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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April 5, 2000

MEMORANDUM TO: Patrick Baranowsky, Chief
Operating Experience Risk Analysis Branch
Division of Risk Analysis and Applications
Office of Nuclear Regulatory Research

THROUGH: Steve Mays, Assistant Branch Chief *SMays*
Operating Experience Risk Analysis Branch
Division of Risk Analysis and Applications
Office of Nuclear Regulatory Research

FROM Bennett Brady *BMB*
Operating Experience Risk Analysis Branch
Division of Risk Analysis and Applications
Office of Nuclear Regulatory Research

SUBJECT: SUMMARY OF THE MEETINGS OF THE EPIX REPORTING
REQUIREMENTS SUBCOMMITTEE, MARCH 22, 2000

The EPIX Reporting Requirements Subcommittee met at INPO headquarters in Atlanta on March 22 to continue discussion on the activities toward the new EPIX vision of the single reporting system for performance indicator data and equipment failure information. The list of attendees and agenda for the meetings are shown in Attachments 1 and 2.

Items from the meeting of interest to NRC are the following:

- NRC Risk-based Performance Indicators
 - Steve Mays gave a presentation on the development of risk-based performance indicators (RBPIs) as proposed in the RBPIs white paper - the background of RBPIs, how RBPIs fit into the revised reactor oversight process (RROP), the benefits, the proposed indicators, and the schedule for developing them.
 - Most of the discussions concerned the implementation of RBPIs in the RROP
 - NRC will provide INPO the names of the 15 plants that are being used for trial testing RBPIs
 - Utilities interested in reviewing the Standardized Plant Analysis Risk models for their plants should contact Pat O'Reilly (301-415-7570, pdo@nrc.gov).
- Refine Estimates of Utility Resources to Resolve NRC Workarounds and Expand Risk-significant Component Scope
 - Table 1 of Attachment 3 shows estimates of the resources required to support the current EPIX reporting, the annual on-going cost is approximately .27 FTE per single unit or .54 FTE for a two unit site.

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- The utility representatives of the Subcommittee made their estimates of the resources required for the additional data NRC has requested, including indicating whether a failure was a PRA failure and reporting unavailability for all trains in all modes in which one train is required. These estimates are shown on Table 2 of Attachment 3.
 - These additions proposed for EPIX would require approximately an additional .27 FTE per single unit.
 - Thus, the total estimates resources for the current EPIX plus the additions is 1.1 FTE per year for a two unit site.
 - Alex Marion, NEI, stated that in his judgement, data collection that is put under the classical Appendix B verification and validation activities could increase the cost two to two and half times in the worst case.
- NEI/INPO/NRC Data Review Group
 - Alex Marion, Chair of the Data Review Group, reported to the Subcommittee on the results of the group's first meeting on March 15.
 - At a December 15 meeting of INPO and NEI senior management, it was agreed that a task force should be established with NEI as head of the group to review data collection activities within industry.
 - At the first meeting, the Group agreed on its mission statement and the scope of work.
 - The Group will identify current data needs and reporting needs but will not deal with policy issues.
 - The Group will make recommendations for process improvements to their NEI Nuclear Strategic Issues Advisory Committee.
 - The week of March 27 a letter will go out with the Group's mission, role and link to the EPIX Ad Hoc Working Group and its subcommittees.
 - For the next meeting, NRC will provide an explanation of the additional data requested in EPIX - what NRC will do with the data, both analytical needs and regulatory needs, and the impact of not having the data.
 - INPO also reported on the Status of EPIX 3.1 (Site-specific MRRI) and EPIX 4.0 (Web-based EPIX reporting)
 - EPIX 3.1 will be programmed to include the NRC additional data needs should it be decided to include these data.
 - The development schedule is for full web data entry in April 2001 and consolidated data reporting through a central web site in January 2002.

Attachments: As stated

cc: J. Bishop, INPO
G. Masters, INPO
Alex Marion, NEI

MEMORANDUM DATED: / /00

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SUBCOMMITTEE, MARCH 22, 2000

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EPIX REPORTING REQUIREMENTS SUBCOMMITTEE

March 22, 1922

Attendees

Jo Ann Amick	Summer
Joe Bishop	INPO
Bennett Brady	NRC
Andy Cato	Vogtle
Nancy Fletcher	INPO
Dave Hambree	INPO
Kim Hulse	INPO
Greg Krueger	PECO
Neil Lossing	INPO
Jim Lynch	INPO
Alex Marion	NEI
Glen Masters	INPO
Steve Mays	NRC
Craig Nierode	Monticello
John Ramsdell	San Onofre
Mike Strait	Commonwealth Edison
Terry Strait	Nine Mile Point
Jim Tunick	Callaway

	<p style="text-align: right;">EPIX Reporting Requirements Subcommittee March 22, 2000</p>
<p>Wednesday, March 22 Room 130</p>	<p>NRC "Risk-based Performance Indicators" Update (0815-0915)</p> <p>Review additional utility resources required to resolve work-arounds and expand risk-significant component scope (0915-1015)</p> <p>Break (1015 - 1030)</p> <p>Strategy for Vision Implementation-Senior Level Working Group Status Discussion, Update Implementation Schedule, Review Latest Unavailability Definition (1030-1130)</p> <p>Lunch</p> <p>Review Status of Release 3.1 (Site-specific MRRI) & Release 4.0 (Web-based EPIX Reporting) (1230-1330)</p> <p>Review proposed changes between existing EPIX and Web-based Design (1330-1430)</p> <p>Receive Input on Web-based Site-specific MRRI Database Reports Package (1330-1530)</p>

EPIX Resource Requirements for Current vs. Expanded Scope

Table 1: Current Reporting Resources

Estimated Resources to Support Current EPIX		
Per Single Unit		
Activity	1996 Start-up	1996- Annual On-going
Scoping for demand/run hour reporting	1-1.5 person-mo.	
One time demand/run hour estimates for risk-significant key components	1-1.5 person-mo.	
Annual update of one time estimates		1 person-week
Annual updates of replaced risk-significant key components		4 person-weeks
Quarterly SSPI demand and run hour reporting		4 person-weeks
Failure reporting (100 per unit * 2 hr. per report)		5 person-weeks
Total	2-3 person-mo.	14 person-weeks
Per Two Unit Site (Both Similar)		
Activity	Start-up	Annual On-going
Scoping for demand/run hour reporting	2 person-mo.	
One time demand/run hour estimates for risk-significant key components	2 person-mo.	
Annual update of one time estimates		2 person-week
Annual updates of replaced risk-significant key components		8 person-weeks
Quarterly SSPI demand and run hour reporting		8 person-weeks
Failure reporting (100 per unit * 2 hr. per report)		10 person-weeks
Total	4 person-mo.	28 person-weeks

Table 2: NRC Requested Increased Scope Reporting Resources

Additional Estimated Resources for NRC EPIX Expanded Scope		
Per Single Unit		
Activity	2000 Start-up	2000- Annual On-going
Additional Scope quarterly demand/run hour reporting		4 person-weeks
Additional Scope one time demand/run hour estimates for key components	2.5 person-weeks	
Additional Scope planned unavailability		4 person-weeks
Unavailability all trains in all modes *		1 person-week
ESF demands one time est.	1.5 person-weeks	
Planned unavailability	4 person-weeks	4 person-weeks
Designating PSA valid Failures		1 person-week
Total	8 person-weeks	14 person-weeks
Per Two Unit Site (Both Similar)		
Activity	2000 Start-up	2000- Annual On-going
Additional Scope quarterly demand/run hour reporting		8 person-weeks
Additional Scope one time demand/run hour estimates for key components	4 person-weeks	
Additional Scope planned unavailability		8 person-weeks
Unavailability all trains in all modes *		2 person-week
ESF demands one time est.	2 person-weeks	
Planned unavailability	6 person-weeks	8 person-weeks
Designating PSA valid Failures		2 person-week
Total	3 person-mo.	28 person-weeks
Total (Current + Additional)	7 person-mo.	56 person-weeks (1.1 FTE)

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Notes: 1) If necessary to move EPIX to an Appendix B QA program, multiply required resources by 2.5

2) These resources are for manual data entry. Use of software bridges for electronic data transfer between existing plant data sources and EPIX can significantly reduce the resources required.

* Unavailability all trains in all modes involves a small resources impact, but is the most controversial element of the NRC request for additional data.