

December 1, 2003

MEMORANDUM TO: Patrick Baranowsky, Chief  
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Office of Nuclear Regulatory Research

Michael Cheok, Assistant Branch Chief  
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FROM: Bennett Brady /RA/  
Operating Experience Risk Analysis Branch  
Division of Risk Analysis and Applications  
Office of Nuclear Regulatory Research

SUBJECT: SUMMARY OF EQUIPMENT PERFORMANCE AND INFORMATION  
EXCHANGE (EPIX) AD HOC WORKING GROUP MEETING,  
NOVEMBER 5, 2003

I represented the NRC at a meeting of the EPIX Ad hoc Working Group on November 5, 2003 at INPO Headquarters in Atlanta. The list of attendees and agenda for the meeting are shown in Attachments 1 and 2. The major items of interest to NRC staff were 1) the status Consolidated Data Entry 2.0, 2) software development for the Mitigating System Performance Index (MSPI) and 3) an update on CDE and EPIX data.

I gave the Group a presentation on Agency usage of EPIX data including: input into the Agency's Reliability and Availability Data System; updates of system and component reliability and trends; updates of common cause failure parameters; updates of fire event frequencies and trends; and input into the MSPI pilot program (Attachment 3).

● **Consolidated Data Entry (CDE) 2.0 Status**

1. Consolidated Data Entry (CDE) is the system that INPO developed to consolidate industry reporting of data for the Reactor Oversight Process (ROP), Monthly Operating Reports (MORs), and World Association of Nuclear Operators (WANO).
2. CDE will go into full production on November 17, 2003. The first MOR data for submittal to NRC is due on December 15, 2003, and the first ROP data for submittal to NRC is due on January 15, 2004.
3. On November 18, there will be a meeting with NRC to discuss possible changes to the submittal of monthly operating reports.

- **MSPI Software**

1. If the MSPI is approved for use with the ROP, INPO will develop database software products for implementing and producing each utility's MSPIs.
2. INPO will develop two relational database products
  - A stand-alone PC version for the workshops prior to implementation and
  - The CDE integrated production version
3. System will feed the Unavailability Index and Unreliability Index for each MSPI system to the ROP parent process
4. The Group discussed other optional output products such as "what if" calculations, proximity alarm if an index is approaching the green/white threshold, and output reports documenting the calculations and a breakdown of subcalculations.

- **CDE and EPIX Data**

1. INPO conducted a comparison of unavailability data submitted by the plants participating in the MSPI pilot with WANO unavailability data and failure data submitted during the MSPI pilot to EPIX component failure data. Some insights from the work included:
  - MSPI unavailability is very close to Maintenance Rule and ROP unavailability definitions
  - MSPI unavailability could be used for WANO planned and unplanned unavailability. WANO fault exposure could be derived from CDE failure reporting or by periodic input.
  - It is not advisable to have independent and separate mechanisms reporting related data such as component failures to EPIX and MSPI.
2. INPO has made great progress in the timeliness and completeness of reporting
3. If the MSPI is approved, the proposed change to reporting quarterly ESF demand and run hours will be implemented

- **Survey of EPIX Usage**

1. In March 2001, the NEI's Nuclear Strategic Issues Advisory Committee (NSIAC) recommended that INPO conduct a survey of utility personnel to get more feedback from end users
2. INPO plans to
  - Conduct the survey beginning this month through January 2004
  - Tabulate responses and hold web cast with the Ad hoc Group and possibly the Consolidated Data Advisory Committee in March 2004
  - Share results/recommendations with NSIAC as needed

Attachments: As stated

cc: G. Welch, INPO  
G. Masters, INPO

MEMORANDUM DATED: 12/1/03

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EXCHANGE (EPIX) AD HOC WORKING GROUP MEETING, NOVEMBER 5,  
2003

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EPIX AD HOC WORKING GROUP MEETING

November 5, 2003

Attendees

Jo Anne Amick	V.C. Summer
Bennett Brady	NRC
Marty Bridges	EPRI
Larry Ellgass	Hatch
George Felgate	INPO
Julie Gadzinski	Kewaunee
Kim Hulse	INPO
Stanley Levinson	Framatome ANP
Glen Masters	INPO
Tom Mooney	Duke Energy
Jim Nurenbern	Callaway
Jim Maddox	Watts Bar
John Ramsdell	San Onofre
Rich Slone	INPO
Kavi Wali	Vogtle
Gary Welsh	INPO

AGENDA	Ad Hoc Subcommittee Meeting Agenda November 5, 2003 Room 202A&B	
TIME	TOPIC	FACILITATOR
8:00 a.m.	<b>Welcome / Introductions</b>	Gary Welsh /Jim Maddox
8:10 a.m.	<b>Action Items from Previous Meetings</b>	Glen Masters
8:30 a.m.	<b>CDE 2.0 Status Update</b>	Rich Slone
9:00 a.m.	<b>MSPI Status Update</b> <ul style="list-style-type: none"> <li>• Current Schedule</li> <li>• Comparison of CDE and MSPI Pilot Data</li> <li>• Site Reporting Processes (engineering/licensing)</li> </ul>	Glen Masters
9:30 a.m.	<b>Break</b>	
9:45 a.m.	<b>MSPI Software Requirements</b> <ul style="list-style-type: none"> <li>• Pilot Reporting Mechanisms</li> <li>• Requirements Under Development</li> </ul>	Glen Masters Rich Slone
10:15 a.m.	<b>CDE Data Input Update</b> <ul style="list-style-type: none"> <li>• Software Upgrades</li> <li>• Reporting Quality and Timeliness Monitoring (including OPEC Comparisons)</li> <li>• Status of Change to Quarterly ESF Demands and Run-Hours Only</li> <li>• Future Comparisons to Rest of CDE Inputs</li> <li>• Overall Reporting Levels</li> </ul>	Rich Slone
10:45 a.m.	<b>Current EPIX Output Updates</b> <ul style="list-style-type: none"> <li>• Current Usage Levels</li> <li>• User Special Requests</li> <li>• Pattern Analysis Software Prototype</li> </ul>	Glen Masters
11:30 a.m.	Lunch	
12:30 p.m.	NRC Usage Update	Bennett Brady
12:45 p.m.	Industry Survey Status	Gary Welsh
1:15 p.m.	Recap/Action Items	Gary Welsh
1:30 p.m.	Conclusion	

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