

# **2006 UTILITY WORKING CONFERENCE**

**AND VENDOR TECHNOLOGY EXPO**

***“Excellence Today and Into the Future”***

**August 6-9, 2006 • Amelia Island Plantation • Amelia Island, Florida**



**OFFICIAL  
PROGRAM**

## Contributing Organizations

The organizations below have made an outstanding contribution to the success of the  
2006 UTILITYWORKING CONFERENCE  
and to the enjoyment of the attendees and their guests through their generous sponsorship.

### **SUNDAY, AUGUST 6, 2006**

#### **EPM (Engineering Planning and Management, Inc.)**

Sponsor of the Hosted Bars during the Opening Dinner

#### **EXCEL Services Corporation**

#### **Invensys Process Systems**

Co-Sponsors of the Opening Dinner

#### **AREVA NP, Inc**

Sponsor of the Appetizers during the Opening Reception

#### **Mitsubishi Heavy Industries, Ltd.**

Co-Sponsor of the Dessert & Cordial Reception following the Opening Dinner

### **MONDAY, AUGUST 7, 2006**

#### **Dominion Generation**

Sponsor of the Continental Breakfast

#### **Proto-Power Corporation**

Sponsor of the Mid-Morning and Afternoon Refreshment Breaks

#### **Invensys Process Systems**

#### **Washington Group International**

Co-Sponsors of the Lunch in the Vendor Technology Expo

### **TUESDAY, AUGUST 8, 2006**

#### **Sargent & Lundy**

Sponsor of the Sunrise Breakfast

#### **Progress Energy**

Sponsor of the Mid-Morning and Afternoon Breaks

#### **Entergy Nuclear Northeast**

#### **Westinghouse Electric Company**

Co-Sponsors of the Lunch in the Vendor Technology Expo

#### **SAP America**

Sponsor of the Hosted Bars in the Vendor Technology Expo Reception

### **WEDNESDAY, AUGUST 9, 2006**

#### **HF Controls**

Sponsor of the Continental Breakfast

## **2006 UWC GOLF TOURNAMENT SPONSORS**

### **Atlantic Group**

**Bechtel Nuclear Power (2 Foursomes of Golf)**

**Black & Veatch (2 Foursomes of Golf)**

**Crane Nuclear Services, Inc. (2 Foursomes of Golf)**

**Curtiss-Wright Flow Control (4 Foursomes of Golf)**

**Day & Zimmermann NPS, Inc.**

**Enercon Services, Inc.**

**EXCEL Services Corporation (4 Foursomes of Golf)**

### **Flowserve Pump Division (3 Foursomes of Golf)**

**Invensys Process Systems**

**Mackson, Inc.**

**MRO Software, Inc.**

**PCI-Westinghouse (2 Foursomes of Golf)**

**Proto-Power Corporation**

**Sulzer Pumps**

**UniTech Services Group, Inc.**

Official Program

# 2006 Utility Working Conference & Vendor Technology Expo

**“Excellence Today and Into the Future”**

**August 6-9, 2006**

**Amelia Island Plantation • Amelia Island, Florida**



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*“Amelia Island Plantation—  
A History in Harmony with Nature:  
Nestled among centuries-old Live Oaks,  
the majestic maritime forest,  
tranquil salt marshes and  
the beauty of the Atlantic Ocean.”*

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# 2006 Utility Working Conference: Program Committee

### GENERAL CHAIR:

**H. Brew Barron,**  
Group Vice President,  
Nuclear Generation and  
Chief Nuclear Officer,  
Duke Energy

### TECHNICAL PROGRAM CHAIR:

**Jeffrey N. Robertson,**  
Project Manager,  
Duke Energy

### ASSISTANT TECHNICAL PROGRAM CHAIR:

**Sophie Gutner,**  
Six Sigma Black Belt,  
Nuclear Analysis and Fuel,  
Dominion Generation

### ASSISTANT TECHNICAL PROGRAM CHAIR:

**Scott Soper,**  
Engineering Supervisor,  
Corporate Farley Plant Support,  
Southern Nuclear Operating Company

## TRACK LEADERS

### Engineering (ENG)

**George Attarian,**  
Chief Engineer,  
Progress Energy

### Operations (OPS)

**Chris Mudrick,**  
Plant Manager, Limerick Plant,  
Exelon Nuclear

### Quality Assurance (QA)

**Jeannie Rinckel,**  
Vice President Fleet Oversight,  
FirstEnergy

### Excellence in Business and Nuclear Asset Management (EB/NAM)

**Ernest Harkness,** *(EB Track Leader)*  
Vice President, Special Projects  
Exelon Nuclear  
*(Currently on Special Assignment to INPO)*

### Performance Improvement (PI)

**Mark Reinhart,**  
Senior Safety Assessment Officer,  
Safety Assessment Section,  
Division of Nuclear Installations,  
International Atomic Energy Agency

### Regulatory Relations (RR)

**Jim Dyer,**  
Director, Office of Nuclear Reactor Regulation,  
USNRC

### Ken Riches, *(NAM Track Leader)*

Project Controls Manager,  
Cook Nuclear Plant,  
American Electric Power

### Probabilistic Risk Analysis (PRA)

**Duncan Brewer,**  
Nuclear General Office Safety Assessment  
Manager,  
Duke Energy

### Work Management (WM)

**Daniel Breig,**  
Station Manager,  
San Onofre Nuclear Generating Station,  
Southern California Edison

### Nuclear Supply Chain (NSC)

**Edward Finnegan, C.P.M/CPIM**  
Manager, Genco Materials-Strategic Sourcing,  
Exelon Supply

## TRACK ORGANIZERS

### Engineering (ENG)

**Yann Stephenson,**  
Mechanical/Civil Chief Engineer,  
Progress Energy

### Operations (OPS)

**Harold Stiles,**  
Project Engineer,  
Progress Energy

### Regulatory Relations (RR)

**Donna Williams,**  
Senior Project Manager,  
USNRC

### Excellence in Business and Nuclear Asset Management (EB/NAM)

**Richard Cole, Ed.D, CPT** *(EB Track Organizer)*  
Senior Program Manager,  
Institute of Nuclear Power Operations—  
Organizational Systems,  
*(Currently on loan from Exelon)*

### Performance Improvement (PI)

**Roman Estrada,**  
Corrective Action and Assessment Manager,  
Cooper Nuclear Station, NPPD

### Greg Gibson,

Manager, Programs and Projects,  
San Onofre Nuclear Generating Station,  
Southern California Edison

### Ken Riches, *(NAM Track Organizer)*

Project Controls Manager,  
Cook Nuclear Plant,  
American Electric Power

### Bill Corcoran, Ph.D,

President,  
Nuclear Safety Review Concepts

### Work Management (WM)

**Todd Adler,**  
Manager Work Control,  
San Onofre Nuclear Generating Station,  
Southern California Edison

### Nuclear Supply Chain (NSC)

**Joe DiChiara,**  
Material Control Manager  
Energy NE

### Probabilistic Risk Analysis (PRA)

**Dennis Henneke,**  
Principal Engineer,  
GE Nuclear Energy

### Lloyd Wright,

Manager Engineering Support,  
San Onofre Nuclear Generating Station,  
Southern California Edison

### Quality Assurance (QA)

**Ralph Hansen,**  
Manager, Fleet Nuclear Oversight,  
Beaver Valley

## 2006 Utility Working Conference & Vendor Technology Expo

August 6-9, 2006 • Amelia Island Plantation • Amelia Island, Florida

DATE	TIME	EVENT/SESSION	ROOM	
SUNDAY, AUGUST 6, 2006	8:00 A.M.	<b>GOLF TOURNAMENT</b>		
	3:00 P.M. - 7:00 P.M.	<b>MEETING REGISTRATION</b>	AMELIA FOYER	
	4:00 P.M. - 5:00 P.M.	<b>FIRST-TIME ATTENDEES ORIENTATION</b>	SAPELO	
	6:00 P.M. - 7:00 P.M.	<b>OPENING RECEPTION</b> <i>Appetizers sponsored by AREVA NP, Inc.</i>	AMELIA BALLROOM	
	7:00 P.M. - 8:30 P.M.	<b>DINNER</b> <i>Co-Sponsored by EXCEL Services Corporation and Invensys Process Systems</i> <i>Hosted Bars During Dinner—</i> <i>Sponsored by EPM (Engineering Planning and Management, Inc.)</i>	CUMBERLAND BALLROOM	
	8:30 P.M. - 10:00 P.M.	<b>DESSERT AND CORDIAL RECEPTION</b> <i>Co-Sponsored by Mitsubishi Heavy Industries, Ltd.</i>	AMELIA BALLROOM	
MONDAY, AUGUST 7, 2006	7:00 A.M. - 4:30 P.M.	<b>MEETING REGISTRATION</b>	AMELIA FOYER	
	7:30 A.M. - 8:30 A.M.	<b>BREAKFAST</b> <i>Sponsored by Dominion Generation</i>	AMELIA BALLROOM	
	8:30 A.M. - 12:00 P.M.	<b>PLENARY SESSION: "Sustaining Excellence"</b>	CUMBERLAND A & B	
	10:00 A.M. - 10:30 A.M.	<b>REFRESHMENT BREAK</b> <i>Sponsored by Proto-Power Corporation</i>	AMELIA BALLROOM	
	12:00 P.M. - 1:30 P.M.	<b>WALK-AROUND LUNCHEON IN THE VENDOR TECHNOLOGY EXPO</b> <i>Co-Sponsored by Invensys Process Systems and Washington Group International</i>	AMELIA BALLROOM	
	1:30 P.M. - 5:00 P.M.	<b>TECHNICAL SESSIONS</b>		
		<b>Engineering (ENG)/Equipment Reliability (ER)</b> "Focusing on Results"		CUMBERLAND A
		<b>Engineering (ENG)/Modifications (MODS)</b> "Outsourcing"		CONFERENCE 1 & 2
		<b>Excellence in Business (EB)/ Nuclear Asset Management (NAM)</b> "Man & Machine—Resource Retention, Development, and Asset Management"		CUMBERLAND B
		<b>Nuclear Supply Chain (NSC)</b> "Contract Project Management/Training"		CUMBERLAND C
		<b>Operations (OPS)</b> "Best Practices in Operations – Tools, Tips and Tricks – Poster Session"		AMELIA FOYER
		<b>Performance Improvement (PI)</b> "Corrective Action Program (CAP), the Hub of Performance Improvement"		CONFERENCE 4 & 5
<b>Probabilistic Risk Analysis (PRA)</b> "Performance-Based, Risk Informed Fire Protection Lessons Learned, NFPA-805"			CONFERENCE 3	
<b>Quality Assurance (QA)</b> "Quality Assurance: The Key to Standardization in New Plant Licensing and Construction"			OSSABAW	
2:30 P.M. - 3:00 P.M.	<b>Regulatory Relations (RR)</b> "New Reactor Licensing, Meeting the Challenges through Standardization"		TALBOT	
	<b>Work Management (WM)</b> "Supply Chain Interface (AP-908)"		SAPELO	
	<b>AFTERNOON REFRESHMENT BREAK</b> <i>Sponsored by Proto-Power Corporation</i>		AMELIA BALLROOM	

# Condensed Conference Schedule

DATE	TIME	EVENT/SESSION	ROOM
TUESDAY, AUGUST 8, 2006	7:00 A.M. - 4:30 P.M.	<b>MEETING REGISTRATION</b>	AMELIA FOYER
	7:00 A.M. - 8:30 A.M.	<b>SUNRISE BREAKFAST</b> <i>Sponsored by Sargent &amp; Lundy</i>	OCEANVIEW TERRACE
	8:30 A.M. - 12:00 P.M.	<b>TECHNICAL SESSIONS</b> <b>Engineering (ENG)/Configuration Management (CM)</b> "Configuration Management and New Plants - Learning from Our Past" <b>Excellence in Business (EB)/Nuclear Asset Management (NAM)</b> "Stakeholders Satisfaction- Who, How and When?" <b>Nuclear Supply Chain (NSC)</b> "Supplier Quality" <b>Operations (OPS)</b> "Defining the Next Level of Excellence in Operations" <b>Performance Improvement (PI)</b> "Performance Monitoring, Identifying Gaps in Performance" <b>Probabilistic Risk Assessment (PRA)</b> "The Significance Determination Process (SDP)—Current Issues Impacting Evaluation of Findings" <b>Quality Assurance (QA)</b> "Fuel-At the Core of Nuclear Energy: Maintaining and Sustaining Fuel Reliability" <b>Regulatory Relations (RR)</b> "The Reactor Oversight Process, The First 5 Years and Looking Forward" <b>Work Management (WM)</b> "AP-913/928 Initiatives/Interfaces"	CUMBERLAND A
			CUMBERLAND B
			CUMBERLAND C
			CONFERENCE 1 & 2
			CONFERENCE 4 & 5
			CONFERENCE 3
			OSSABAW
			TALBOT
			SAPELO
	10:00 A.M. - 10:30 A.M.	<b>REFRESHMENT BREAK</b> <i>Sponsored by Progress Energy</i>	AMELIA BALLROOM
	12:00 P.M. - 1:30 P.M.	<b>WALK-AROUND LUNCHEON IN THE VENDOR TECHNOLOGY EXPO</b> <i>Co-Sponsored by Entergy Nuclear Northeast and Westinghouse Electric Corporation</i>	AMELIA BALLROOM
1:30 P.M. - 4:30 P.M.	<b>SPECIAL PANEL SESSION: "Expanding the Fleet"</b>	CUMBERLAND A & B	
2:30 P.M. - 3:00 P.M.	<b>AFTERNOON REFRESHMENT BREAK</b> <i>Sponsored by Progress Energy</i>	AMELIA BALLROOM	
4:30 P.M. - 6:30 P.M.	<b>RECEPTION IN THE VENDOR TECHNOLOGY EXPO</b> <i>Sponsored by the Technology Expo Vendors</i> <i>Hosted Bars During Reception—Sponsored by SAP America</i>	AMELIA BALLROOM	
WEDNESDAY, AUGUST 9, 2006	7:00 A.M. - 11:30 A.M.	<b>MEETING REGISTRATION</b>	AMELIA FOYER
	7:00 A.M. - 8:30 A.M.	<b>CONTINENTAL BREAKFAST</b> <i>Sponsored by HF Controls</i>	AMELIA BALLROOM
	8:30 A.M. - 12:00 P.M.	<b>TECHNICAL SESSIONS</b> <b>Engineering (ENG)/Equipment Reliability (ER)</b> "Equipment Failure Analysis, Equipment Reliability Metrics, and Management of Equipment Reliability Data" <b>Engineering (ENG)/Modifications (MODS)</b> "Digital Upgrades and Other Emerging Challenges" <b>Nuclear Supply Chain (NSC)</b> "Material Critical Spares and Obsolescence" <b>Operations (OPS)</b> "Meeting the Future Needs in Operations" <b>Performance Improvement (PI)</b> "Operating Experience (OE), the Key to Organizational Learning" <b>Probabilistic Risk Assessment (PRA)</b> "Risk Informed Decision-Making in Utility Operations" <b>Regulatory Relations (RR)</b> "Interactions Between the NRC and Industry on Generic Issues" <b>Work Management (WM)</b> "Maintenance Rule Unavailability"	OSSABAW
			CUMBERLAND B
			CUMBERLAND C
			CONFERENCE 1 & 2
			CONFERENCE 4 & 5
			CONFERENCE 3
10:00 A.M. - 10:30 A.M.	<b>REFRESHMENT BREAK</b>	AMELIA FOYER	
12:00 P.M. - 1:00 P.M.	<b>WRAP-UP LUNCHEON</b>	CUMBERLAND A	



**Accommodations and Hotel Information**

The Amelia Island Plantation will be the location for the 2006 Utility Working Conference, where all meeting activities and technical sessions will take place. Amelia Island Plantation is Florida's premier AAA-Four Diamond destination island resort in perfect harmony with nature. Located on Amelia Island, Florida, just 29 miles north of Jacksonville International Airport (JAX), the 1350 acre property overlooks the blue water of the Atlantic on the east and the green marshland and Intracoastal Waterway on the west.

**Local Attractions and Activities:**

One of America's few remaining unspoiled island paradises, Amelia Island is the southernmost of the chain of Atlantic coast barrier islands that stretch from North Carolina to Florida. Its rich history, 13 miles of uncrowded beaches, lush, natural setting, moss-covered oaks, unparalleled golf, boating, and fishing, stunning sunrises and sunsets, and friendly "locals" make it more than just a place to visit.

Amelia Island's stunning natural and historic attractions make it the vacation or relocation "destination of choice" for many. The Island offers its guests its jealously guarded natural beauty, the charm of yesteryear (when Fernandina, now Fernandina Beach, was one the most vibrant villages in an undiscovered Florida), and an almost unlimited range of sports and leisure opportunities.

**Conference Registration**

Registration is required for all attendees and presenters. Badges are required for admission to all events. The Conference Registration fee includes one ticket to each of the following events: Sunday Welcome Reception/Dinner; Monday, Tuesday and Wednesday Luncheons; and a copy of the available meeting materials on a CD-Rom.

**NOTE:**

Additional tickets can be purchased at the ANS Registration Desk for the Sunday Welcome Reception/Dinner; Monday, Tuesday and Wednesday Luncheons; and the Thursday Luncheon (ANS Professional Development Workshop).

**Registration Hours:**

The Conference Registration Desk will be located in the Amelia Foyer at the Amelia Island Plantation. You may register, purchase tickets for events, or pick up your registration packet during the following hours:

SUNDAY, AUGUST 6, 2006	3:00 p.m. - 7:00 p.m.
MONDAY, AUGUST 7, 2006	7:00 a.m. - 4:30 p.m.
TUESDAY, AUGUST 8, 2006	7:30 a.m. - 4:30 p.m.
WEDNESDAY, AUGUST 9, 2006	7:30 a.m. - 11:30 a.m.

**November 12-16, 2006  
Albuquerque, NM**

**Albuquerque Convention Center,  
Hyatt Regency Albuquerque and  
Doubletree Albuquerque**

**ANS 2006 WINTER MEETING &  
NUCLEAR TECHNOLOGY EXPO**

*"Ensuring the Future in Times of Change:  
Nonproliferation and Security"*

**EMBEDDED TOPICAL  
MEETINGS**

- **17th Topical Meeting on the Technology of Fusion Energy (TOFE)**
- **5th International Topical Meeting on Nuclear Plant Instrumentation, Controls, and Human Machine Interface Technology (NPIC&HMIT 2006)**

**PROFESSIONAL DEVELOPMENT WORKSHOPS:**

- **Digital Instrumentation Upgrades**
- **MELCOR - 2 Day Workshop**

Please visit the ANS website [www.ans.org](http://www.ans.org) for additional meeting information.

# 2006 Utility Working Conference & Vendor Technology Expo

## “Excellence Today and Into the Future”

**MONDAY, AUGUST 7, 2006**

### BREAKFAST

**7:30 a.m. - 8:30 a.m. (LOCATION: AMELIA BALLROOM)**

(Sponsored by Dominion Generation)

### PLENARY SESSION

**8:30 a.m. - 12:00 p.m. (LOCATION: CUMBERLAND A & B)**

#### “Sustaining Excellence”

##### PLENARY ORGANIZER:

Brew Barron (*Group Vice President, Nuclear Generation and Chief Nuclear Officer, Duke Energy*)

##### OPENING REMARKS:

- Harold F. McFarlane (*President, American Nuclear Society*)
- Brew Barron (*Group Vice President, Nuclear Generation and Chief Nuclear Officer, Duke Energy*)

##### SPEAKERS:

- The Honorable Gregory B. Jaczko (*Commissioner, US NRC*)
- James O. Ellis, Jr. (*President & CEO, INPO*)
- David A. Christian (*Senior Vice President & CNO, Dominion Energy, Inc.*)
- Bill Coley (*Chief Executive, British Energy Group, PLC*)

##### 2006 UWC AWARD PRESENTATIONS:

- 2006 UWC Utility Achievement Award  
Beaver Valley Power Station, FirstEnergy  
(*In Recognition of Outstanding Improvement in Performance*)
- 2006 UWC Utility Achievement Award  
Limerick Generating Station, Exelon  
(*In Recognition of Sustained Outstanding Performance*)
- 2006 UWC Utility Leadership Award  
Scotty Hinnant (*Senior Vice President and Chief Nuclear Officer, Progress Energy, Inc.*)  
(*In Recognition and Sincere Appreciation of Your Demonstrated Leadership in Promoting a Safety Conscious Work Environment Both Within Progress Energy and Across the Nuclear Power Industry*)

### REFRESHMENT BREAK

**10:00 a.m. - 10:30 a.m. (LOCATION: AMELIA BALLROOM)**

(Sponsored by Proto-Power Corporation)

### WALK-AROUND LUNCHEON in the VENDOR TECHNOLOGY EXPO

**12:00 p.m. - 1:30 p.m. (LOCATION: AMELIA BALLROOM)**

(Co-Sponsored by Invensys Process Systems and Washington Group International)

### ENGINEERING (ENG)/EQUIPMENT RELIABILITY (ER)

**1:30 p.m. - 5:00 p.m. (LOCATION: CUMBERLAND A)**

#### “Focusing on Results”

Equipment Reliability (ER) improvement programs have been implemented at every plant with differing degrees of success. The objective of this session is to discuss actions being taken by utilities to further improve equipment reliability results. This session will focus on preventive maintenance optimization (PMO) implementation, resolution of operations issues, and life cycle management strategies.

##### SESSION ORGANIZER:

Richard Allen (*Manager, Systems Engineering Programs, Southern California Edison*)

### ENGINEERING (ENG)/EQUIPMENT RELIABILITY (ER) (continued)

##### SPEAKERS:

- “SONGS Equipment Reliability – From Program Implementation to Sustained Results”  
Richard Allen (*Manager, Systems Engineering Programs, Southern California Edison, San Onofre Nuclear Generating Station*)
- “‘Best Practices’ for PM Optimization—Double Filter Review and Craft Feedback Process”  
Russ Nielsen (*ER Engineer, Southern California Edison, San Onofre Nuclear Generating Station*)
- “Resolution of Specific Operations ER Issues”  
John Ramsdell (*Supervisor, Systems Engineering Programs, Southern California Edison, San Onofre Nuclear Generating Station*)
- “Teamwork – A Preventive Maintenance Program for Equipment”  
Kenneth A. Hart (*Senior Engineer, Susquehanna Steam Electric Station PPL Susquehanna, LLC*)
- “PM Optimization”  
Gary N. Childers (*Equipment Reliability Supervisor, South Texas Project Electric Generating Station, STP Nuclear Operating Company*)
- “Integrated Long Range Planning at Exelon”  
Steve Hunsader (*Senior Staff Engineer, Exelon Corporation, Exelon Nuclear*)

### ENGINEERING (ENG)/MODIFICATIONS (MODS)

**1:30 p.m. - 5:00 p.m. (LOCATION: CONFERENCE 1 & 2)**

#### “Outsourcing”

Many utilities are facing greater reliance on vendors to provide modification design services. Some utilities have little experience specifying engineering services. This can present challenges since the vendor may have limited knowledge of or access to the design bases and design requirements of the utility’s plant. The industry has recently experienced numerous problems with vendor designs. In many cases, these problems resulted from deficient specifications, insufficient utility oversight, or insufficient expertise within the utility to provide the necessary oversight. The utility has the design authority and is ultimately responsible for the vendor designs. This session will present case studies from utilities that include good and bad outsourcing experiences.

##### SESSION ORGANIZER:

Rick Harris (*Senior Engineer, Duke Energy*)

##### SPEAKERS:

- “Building a Reliance on Vendors for Modification Design”  
Bill Edge (*Supervisor, Oconee Nuclear Site Projects, Duke Energy*)
- “Outsourcing Experience at Exelon”  
Bruce Rash (*Corporate Design Director - Acting Engineering Vice President, Exelon*)
- “Paks Event: Outsourcing Design Ownership”  
Chuck Casto (*Director, Division of Reactor Projects, NRC Region II*)
- “Building Strategic Alliances with an Engineer of Choice”  
Pat Colbert (*Supervisor of Outsourcing Group, Diablo Canyon, PG&E*)

### EXCELLENCE IN BUSINESS (EB)/NUCLEAR ASSET MANAGEMENT (NAM)

**1:30 p.m. - 5:00 p.m. (LOCATION: CUMBERLAND B)**

#### “Man and Machine – Resource Retention, Development, and Asset Management”

The state of plant and fleet performance is faced with challenges impacting current and future production plans. Challenges to the industry include both human and capital assets. The ability to attract and retain qualified personnel to meet current and projected staffing needs, retention of knowledge from a transitioning workforce, and keeping the current workforce engaged will require innovative methods and policies. Material, parts, equipment reliability improvements, and specialty skills must be available at reasonable cost and volume to support current operations and potential expansion. This session shall explore the senior executives’ vision of actions necessary to achieve current and future goals. The executives will share what has been successful in the past, growth strategies, and insight into how successful organizations thrive.



## EXCELLENCE IN BUSINESS (EB)/NUCLEAR ASSET MANAGEMENT (NAM) (continued)

### SESSION ORGANIZERS:

- Ken Riches (*Project Controls Manager, Cook Nuclear Plant – American Electric Power*)
- Richard Cole (*Senior Program Manager—Organizational Systems, INPO (on loan from Exelon)*)

### SPEAKERS:

- “Business Performance Indicators”  
Ken Riches (*Project Controls Manager, AEP – Cook Nuclear Plant*) and Jay Holbus (*Vice President, Relationship Development, Strategic Asset Management Inc.*)
- “Strategic Asset Optimization: Case Study in Long Range Planning, Budgeting, and Prioritization”  
Ken Riches (*Project Controls Manager, AEP – Cook Nuclear Plant*) and Dan Niswonger (*SAO Solution Sales Manager*)
- “Nuclear Business Process Outsourcing”  
Mitchell Lucas (*Vice President, Nuclear Engineering and Support, Comanche Peak*)
- “Nuclear Work Force Planning Strategy for the Future”  
John McGaha (*President, Entergy Nuclear South*)

## NUCLEAR SUPPLY CHAIN (NSC)

**1:30 p.m. - 5:00 p.m. (LOCATION: CUMBERLAND C)**

### “Contract Project Management/Training”

This session will provide guidance for the development and implementation of a training program for those individuals responsible for managing the final contract. It will also include presentations and open discussions on the important role of contract management from the legal and supplier perspective, and how effective contract management influences supplier performance.

### SESSION ORGANIZER:

Doreen Costabile (*Manager, Contracts, Entergy Nuclear Operations, Inc.*)

### SPEAKERS:

- “Guidelines for Contract Management Training”  
Roosevelt Groves (*Director, Supply Operations - Exelon*) and Houston Northrop (*Manager, Materials, Purchasing & Contracts - Entergy/Cooper Station*)
- “Legal Advantages of Implementing Training Programs for Contract Managers”  
Margaret Williams (*Chairman, Board of Directors, Wise Carter Child & Caraway*)
- “Effective Contract Management: Getting the Most Value from Your Suppliers”  
Jeffrey L. Pelusi (*Director, Westinghouse*)

## OPERATIONS (OPS)

**1:30 p.m. - 5:00 p.m. (LOCATION: AMELIA FOYER)**

### “Best Practices in Operations – Tools, Tips, and Tricks” – Poster Session

This session will explore new tools, helpful tips, and clever tricks for achieving and sustaining strong performance in Operations. This showcase of selected best practices will emphasize the sharing of experience with the potential for duplication of successes elsewhere. Topics are expected to range from labor-saving techniques for performing common tasks to novel approaches for conducting essential operations. Plants will be asked to self-identify areas in Operations that have exhibited strong performance or where measurable improvements have recently been made. Attendees will discuss the fundamental reasons for success, as identified by the plants. With an eye for the future, the plants will also be asked to identify areas for improvement that may be planned for the coming year. Special provisions will be made for surrogate participation of plants that cannot send a spokesperson.

### SESSION ORGANIZER:

Jim Henry (*Director of Operations, Exelon Corporation*)

### POSTER PRESENTATIONS BY:

- “Key Factors in Selecting Protective Clothing”  
Mark Price (*Project Manager, Southern California Edison*)
- Donald Lampke (*Senior Engineer, Operations, McGuire Nuclear Station, Duke Energy*)
- Annette Pope (*Operations Manager, Brunswick*)

## PERFORMANCE IMPROVEMENT (PI)

**1:30 p.m. - 5:00 p.m. (LOCATION: CONFERENCE 4 & 5)**

### “Corrective Action Program (CAP), the Hub of Performance Improvement”

The CAP is the hub in the wheel that keeps all of the performance improvement (PI) areas rolling. Spokes from this hub such as self assessment, operating experience, performance management, and human performance all rely on a strong CAP presence to hold the wheel of PI in place and maintain forward momentum. This session will focus on what plant management can do to continue to strengthen CAP at their stations and place CAP at the forefront of the “Core Business” and the Hub of PI.

### SESSION ORGANIZER:

Mike Verrilli (*Corporate Self Evaluation Supervisor, Progress Energy - Nuclear Generation*)

### SPEAKERS:

- “CAP from a Fleet Perspective”  
Mike Verrilli (*Corporate Self Evaluation Supervisor, Progress Energy*)
- “CAP Backlog Management”  
Roman Estrada (*Corrective Action and Assessment Manager, NPPD/Cooper Nuclear Station*)
- “CAP and Resolving Problems in SCWE”  
Darin Benyak (*Director, Regulatory Assurance, PSEG Nuclear - Salem/Hope Creek Generating Stations*)
- “Causal Analysis for Managers”  
Kay Gallogly (*Consultant, Human Performance Strategies*)

## PROBABILISTIC RISK ANALYSIS (PRA)

**1:30 p.m. - 5:00 p.m. (LOCATION: CONFERENCE 3)**

### “Performance-Based, Risk-Informed Fire Protection Lessons Learned, NFPA-805”

A large number of U.S. Nuclear plants have committed to transition to NFPA-805. This standard allows plants to change their fire protection safe shutdown analysis using performance-based methods, including fire PRA. NEI has developed a guidance document, NEI-04-02, to provide a methodology for transition. The NRC has also developed a Regulatory Guide that endorses the NEI Guide and provides some additional regulatory detail. These documents are being piloted at two plants with participation from the NEI development team and the NRC. This session will focus on the initial lessons learned from the pilots, the development of the NEI guide and the development of the NRC Regulatory Guide.

### SESSION ORGANIZER:

Dennis Henneke (*Principal Engineer, GE Nuclear Energy*)

### SPEAKERS:

- “Risk-Informed Multiple Spurious Operations in Support of NFPA-805”  
Dennis Henneke (*Principal Engineer, GE Nuclear Energy*)
- “Risk-Informing Fire Protection Licensing Bases via NFPA 805”  
Sunil D. Weerakkody, Ph.D (*Chief, Fire Protection Branch Office of Nuclear Reactor Regulation, USNRC*)
- “NFPA 805 Successes and Failures”  
Elizabeth Kleinsorg (*Managing Partner Kleinsorg Group Risk Services*)
- “NFPA-805 Transition, Pilot Plant Lessons Learned”  
Keith Began (*Senior Engineer/Technical Support Specialist, Chief Engineering Section (CES) - Fire Protection, Progress Energy*)

## QUALITY ASSURANCE (QA)

**1:30 p.m. - 5:00 p.m. (LOCATION: OSSABAW)**

### “Quality Assurance: The Key to Standardization in New Plant Licensing and Construction”

The session will provide valuable insights into quality assurance strategies that complement design-centered standardization approaches. Considerable cost savings, reduced regulatory challenges and an enhanced nuclear safety profile will be realized through standardization. In addition, the industry needs to endorse a quality standard for new construction. Complete deployment and integration of quality processes into all phases of new plant licensing and construction activities—ESP, COL, Construction, ITTACS, Start-up and Operation—are critical to ensuring standardization and consistency in all applications. Standardization is also achieved through early quality program development and alignment with applicable standards, regulatory guidance and industry committee reports.

# Technical Sessions

## QUALITY ASSURANCE (QA) (continued)

### SESSION ORGANIZER:

Garry Harris (CEO/President, HTS Enterprise)

### SPEAKERS:

- “Operating Phase Quality Assurance Issues”  
Clint Eldridge (Chairman, ANS 3.2 Working Group, Pacific Gas and Electric Company)
- “Product SRP 17.5 Quality Assurance Program Description, New License Application, Design Certifications, Early Site Permit”  
Tom Mudge (Quality Manager, Washington Group International, Inc.)
- “The Current Status of NQA and Its Role in Standardizing QA Criteria for New Nuclear Generation”  
John Adkins (Chairman NQA Committee, Southern Company)
- “Challenges and Opportunities for Standardization of the Construction Process”  
Paul Prescott (Senior Operations Engineer, Division of Engineering Office of Nuclear Reactor Regulation, USNRC)
- “New Plant Generation Quality Assurance”  
Jim Fisicaro (Nuclear General Office General Manager, Duke Energy)

## REGULATORY RELATIONS (RR)

1:30 p.m. - 5:00 p.m. (LOCATION: TALBOT)

### “New Reactor Licensing, Meeting the Challenges through Standardization”

New nuclear power plants are receiving considerable attention and are expected to have a substantial role in meeting our Nation’s future energy needs. The current Administration has stated their support for the construction of new nuclear reactors.

The potential for growth is being demonstrated through ongoing interactions between the NRC and industry regarding the new reactor licensing process, and a number of potential new reactor Combined License (COL) applications are expected beginning in 2007. In order for the NRC to accomplish their mission to ensure adequate protection of public health and safety for new reactors licensed under 10 CFR Part 52 (given resource constraints, schedule pressures, and stakeholder expectations), a standardized, uniform, design-centered approach to both COL application development and NRC review is essential. In this session both NRC and industry perspectives will be shared regarding progress and challenges in developing a standardized licensing approach for new reactors.

### SESSION ORGANIZER:

Mark Kowal (Special Assistant, Division of New Reactor Licensing, USNRC)

### PANEL CHAIR:

David Matthews (Director, Division of New Reactor Licensing, Nuclear Reactor Regulation, USNRC)

### PANELISTS:

- “NRC Efforts Toward Standardization of New Reactor Licensing Activities”  
Mark Kowal (Special Assistant, Division of New Reactor Licensing, USNRC)
- “Standardization—The Commercial Perspective”  
Adrian Heymer (Director, New Plant Deployment, Nuclear Energy Institute)
- “Standardization: The Bedrock of a Global Fleet”  
Sandra Sloan (Licensing Product Manager, Framatome ANP)
- “(AP1000)—Challenges and Progress Regarding COL Applications”  
Peter Hastings (Manager, Nuclear Projects Licensing, Duke Energy)
- “(ESBWR)—Challenges and Progress Regarding COL Applications”  
George Zinke (Project Manager, Entergy)
- “The Importance of a Disciplined and Efficient Review Process for New Reactors—Managing the Legal Challenges”  
James R. Curtiss (Partner, Winston & Strawn)

## WORK MANAGEMENT (WM)

1:30 p.m. - 5:00 p.m. (LOCATION: SAPELO)

### “Supply Chain Interface (AP-908)”

This session will look at how the work control process dovetails with the supply chain activities. The schedule development process includes work package preparation, walk-downs, schedule development, risk assessment, and support coordination. How critical spares are identified during the scheduling process is an important part of the support coordination activities. We can share how this is performed at our site and learn from each other. As plants age it is increasingly difficult to find some replacement parts. How the scheduling process can incorporate obsolescence issues will also be a topic of discussion.

### SESSION ORGANIZER:

Peter Arthur (Project Management Manager, FirstEnergy)

### SPEAKERS:

- “Monitoring Work Management and Supply Chains Performance Through Improved Performance Indicators and Metrics”  
Robert M. Paley (Manager, Work Management Susquehanna Steam Electric Station)
- “Benchmarking and Cost Analysis in Materials and Services and Work Management”  
Tim Schlimpert (Vice President, MCR Performance Solutions, LLC) and  
Khalil Shalabi (Lead Consultant, MCR Performance Solutions, LLC)
- “Making Parts out of Pieces”  
James W. Hammond (Superintendent, Planning Salem-Hope Creek Generating Station)

## AFTERNOON REFRESHMENT BREAK

2:30 p.m. - 3:00 p.m. (LOCATION: AMELIA BALLROOM)

(Sponsored by Proto-Power Corporation)

## TUESDAY, AUGUST 8, 2006

### SUNRISE BREAKFAST

7:00 a.m. - 8:30 a.m. (LOCATION: OCEANVIEW TERRACE)

(Sponsored by Sargent & Lundy)

## ENGINEERING (ENG)/CONFIGURATION MANAGEMENT (CM)

8:30 a.m. - 12:00 p.m. (LOCATION: CUMBERLAND A)

### “Configuration Management and New Plants – Learning From Our Past”

Several fleet operators and consortiums are moving forward with the design, licensing and construction of new nuclear power plants and this provides the industry with an opportunity to improve the configuration management process for these new plants. We now have many more IT tools to help us define our baseline configuration, document it and maintain it current than we did in the 60’s, 70’s and 80’s when the current plants were designed, constructed and placed in service. Speakers will be solicited from the consortiums and fleet operators that are involved in new plant design, licensing and construction to discuss what they have learned from the past and how they are trying to prevent problems and make life better in the future.

### SESSION ORGANIZERS:

- Robert Hess (Reactor Head Replacement Project, Pacific Gas and Electric)
- Don Eggett (Manager of Business Development, Automated Engineering Services Co.)

### SPEAKERS:

- “Managing the U.S. EPR’s Life Cycle Configuration with Certainty”  
Tom Roberts (Vice President, Calvert Cliffs New Generation Project, UniStar Nuclear)  
Dave Tate (Manager, Information Systems, AREVA New Plants)
- “Configuration Management for the Next Generation”  
Mike Stout (Director of Business Development, Spescom Software, Inc.)
- “Planning for New Nuclear Plants Configuration Management Program—What Should It Look Like?”  
Greg Rolfson (Manager of Engineering for New Nuclear Plants, Entergy)
- “Issues with Configuration Management on Existing Plants—What to Avoid in the Next Generation?”  
Jim Maddox (New Plant Construction Program Director, Institute of Nuclear Power Operation)

## EXCELLENCE IN BUSINESS (EB)/NUCLEAR ASSET MANAGEMENT (NAM)

8:30 a.m. - 12:00 p.m. (LOCATION: CUMBERLAND B)

### “Stakeholders Satisfaction – Who, How, and When”

The leaders in this industry are challenged in several areas by interested individuals and organizations insisting their interests are satisfied. Public opinion, regulator oversight, corporate risk management to satisfy shareholder expectations, and project management to maintain cost within budgets typifies the often competing demands on senior leadership. This session shall explore innovative methods and experiences from leaders who have confronted these demands. This session shall seek input on how a coordinated plan can reduce risk and coordinate the needs of stakeholders to ensure safe and fiscally responsible plant operation.

#### SESSION ORGANIZERS:

- Ken Riches (*Project Controls Manager, Cook Nuclear Plant – American Electric Power*)
- Richard Cole (*Senior Program Manager—Organizational Systems, INPO (on loan from Exelon)*)

#### SPEAKERS:

- “Organizing for Nuclear Asset Management (NAM)”  
Tim Schlimpert (*Vice President, MCR Performance Solutions, LLC*)
- “Extending the NAM Planning Horizon”  
Rick Harris (*Senior Engineer, Duke Energy*) and  
Tim Schlimpert (*Vice President, MCR Performance Solutions, LLC*)
- “License Renewal—Community Outreach”  
Richard Lopriore (*Sr. Vice President - Mid-Atlantic Operations, Exelon Nuclear*)
- “Stakeholder Interference: A Regulatory Perspective”  
Luis A. Reyes (*Executive Director for Operations, U.S. Nuclear Regulatory Commission*)

## NUCLEAR SUPPLY CHAIN (NSC)

8:30 a.m. - 12:00 p.m. (LOCATION: CUMBERLAND C)

### “Supplier Quality”

Maintaining high levels of equipment reliability has become increasingly challenging for licensees due to a variety of factors including: shorter outages and longer operating cycles; plant life extension; and business needs to maximize production. At the same time, there is an upward trend in supplier quality related issues, which is beginning to have an impact on production. As a result supplier quality concerns have become a significant focus at a number of plants and within several industry organizations.

This session will focus on industry efforts to close the gap between expected and actual supplier performance. We’ll hear from a number of utilities that have implemented supplier quality improvement initiatives. They will share insights and lessons learned on a range of important topics including: root cause analysis—major factors contributing to poor supplier performance; supplier interfaces/critical communication points; and building stronger relationships with key suppliers. We will also learn about ongoing industry efforts in this area.

#### SESSION ORGANIZER:

Leigh Aparicio (*Senior Project Manager, EPRI*)

#### SPEAKERS:

- “Exelon’s Parts Quality Initiative”  
Roosevelt Groves (*Director, Supply Operations West, Exelon Corporation*)
- “Vendor Quality at Progress Energy”  
John Ferguson (*Manager, Materials Services, Progress Energy, Inc.*)
- “NUPIC Supplier Quality Initiatives”  
Sherry Grier (*Procurement Quality Manager, Duke Energy Corporation*)
- “Lessons Learned”  
Hrach Minassian (*Senior Staff Engineer, Exelon Corporation*)

## OPERATIONS (OPS)

8:30 p.m. - 12:00 p.m. (LOCATION: CONFERENCE I & 2)

### “Defining the Next Level of Excellence in Operations”

This session will define what “great” looks like for operations today and into the future. In an industry blessed with so many strong performers, real “excellence” is very difficult to achieve. Speakers from utilities, INPO, and the NRC will provide diverse perspectives on the common traits exhibited by those plants at the pinnacle of their performance. This discussion is expected to generate important insights about the top-performing operations organizations of the future in which the goals will be even more challenging, the resources will be even scarcer, and the ability to make the right decisions will be even more crucial. Active audience participation will be essential for a productive session.

#### SESSION ORGANIZER:

Ed Wills (*Manager—Operations, Shearon Harris Nuclear Power Plant, Progress Energy*)

#### SPEAKERS:

- “Operational Excellence – The Regulator’s Piece of the Puzzle”  
Samuel J. Collins (*USNRC Regional Administrator for Region I*)
- “Operator Fundamentals”  
Robert L. Gambone (*Manager, Operations, INPO*)
- “Defining Excellence in Operations at Exelon”  
Jim Henry (*Operations Director, Exelon Nuclear*)

## PERFORMANCE IMPROVEMENT (PI)

8:30 a.m. - 12:00 p.m. (LOCATION: CONFERENCE 4 & 5)

### “Performance Monitoring, Identifying Gaps in Performance”

Performance monitoring activities identify gaps between current levels of performance and desired management or industry standards. Performance monitoring includes a mix of both proactive and reactive components. Proactive components are used to identify opportunities for improvement and precursor-level problems before they become larger organizational issues. Proactive activities include self-assessment, benchmarking, trending and performance assessment, behavior observation and use of low-level performance indicators. Reactive methods include problem reporting, effectiveness reviews, and use of high level performance indicators. This session will focus on innovative and effective performance monitoring activities.

#### SESSION ORGANIZER:

Ralph Drier (*Senior Analyst, Nuclear Safety Advisory Group, Cooper Nuclear Station*)

#### SPEAKERS:

- “Self-Assessment and Safety Culture”  
William R. Corcoran (*President, Nuclear Safety Review Concepts Corporation*)
- “Det Norske Veritas-ISRS Process (International Safety Rating System)”  
Mark Reinhart (*Senior Safety Assessment Officer, Safety Assessment Section, Division of Nuclear Installations, International Atomic Energy Agency*)
- “Performance Improvement Program Trending”  
Patrick Russell (*Performance Improvement Director, Nuclear Management Company, LLC*)
- “Baldrige: Another Perspective”  
Ralph Drier (*Senior Analyst, Nuclear Safety Advisory Group, Cooper Nuclear Station*)

## PROBABILISTIC RISK ANALYSIS (PRA)

8:30 a.m. - 12:00 p.m. (LOCATION: CONFERENCE 3)

### “The Significance Determination Process (SDP) – Current Issues Impacting Evaluation of Findings”

When findings at facilities impact the Mitigating Systems, Initiating Systems, or Barriers cornerstones, the SDP process uses a calculated change in risk as one of the inputs to determine the finding’s significance. The processing of the finding involves decisions by both the regulator and the utility on how much effort should be spent to more closely analyze the technical aspects of the deficiency, and its impact on plant safety. A current issue is how best to balance the precision of the findings impact calculation against the amount of time and effort to arrive at risk quantification. The timing and amount of communication between the utility and the regulator can also impact the processing of the finding. In addition, a common understanding of the assumptions that the SDP process uses to evaluate the finding is helpful in optimizing the understanding of the issue. This session will discuss these and other issues currently impacting the processing of SDP findings.

# Technical Sessions

## PROBABILISTIC RISK ANALYSIS (PRA) (CONTINUED)

### SESSION ORGANIZER:

Rudy Bernhard (*Senior Risk Analyst, USNRC Region II*)

### SPEAKERS:

- “Kewaunee Turbine Building Flooding SDP – A Case Study”  
Thomas G. Hook (*Nuclear Engineering Supervisor, PRA Nuclear Analysis and Fuel IN3SW, Dominion Resources*)
- “An NRC Headquarters Perspective on the Significance Determination Process (SDP): Current Issues and Future Activities”  
Michael X. Franovich (*Chief, PRA Operational Support & Maintenance Branch (APOB), NRR, USNRC*)
- “‘Best Practices’ for Managing SDP Timeliness”  
Dwight D. Chamberlain (*Director, Division of Reactor Safety, Region IV, USNRC*)
- “Utility Resource Allocation Considerations for Phase 3 SDP Evaluations”  
Greg Krueger (*Senior Manager - Risk Management, Exelon Corporation*)

## QUALITY ASSURANCE (QA)

**8:30 a.m. - 12:00 p.m. (LOCATION: OSSABAW)**

### “Fuel - At The Core of Nuclear Energy: Maintaining and Sustaining Fuel Reliability”

The pursuit of excellence includes fuel reliability - the first fission product barrier. Challenges to fuel reliability increases the stations source term, increases burden to the operators, increases outage scope, and typically impacts electrical generation. This panel discussion will share perspectives of quality assurance improvements in the nuclear fuel area and facilitate the communication of best practices and lessons learned to utility executives.

### SESSION ORGANIZER:

Ralph Hansen (*Manager, Fleet Nuclear Oversight, Beaver Valley*)

### SPEAKERS:

- “The Utility Perspective and Foreign Material Exclusion Program”  
Bob Paley (*Manager Work Management, Susquebanna*)
- “Quality in Manufacturing: Performance Improvement Tools”  
Carrie Monaco (*Director, Quality, Westinghouse*)
- “Improved Corrective Action Program: The Key to Fuel Reliability”  
Doug Sherburne (*Quality Assurance Manager, AREVA*)
- “Best Practices in Software and Design Control”  
Angelo Chopelas (*Manager, Core Monitoring, Global Nuclear Fuel*)

## REGULATORY RELATIONS (RR)

**8:30 a.m. - 12:00 p.m. (LOCATION: TALBOT)**

### “The Reactor Oversight Process, The First 5 Years and Looking Forward”

This session will look at the NRC's new inspection program during its first 5 years, and discuss whether it has been effective in the goals that it set out to achieve. The session will also look at current challenges of the program, such as cross-cutting issues and complicated SCRAMS; and proposed revisions such as Mitigating System Performance Indicators, and the integration of Safety Culture into the ROP.

### SESSION ORGANIZER:

Greg Gibson (*Manager, Programs & Projects, San Onofre, Southern California Edison*)

### SPEAKERS:

- “Proposed PI Revision: Complicated SCRAMS”  
Bill Mookhoek (*Senior Engineer, Licensing, South Texas Project*)
- “MSPI Lessons Learned”  
Al Haeger (*Exelon, Licensing Administrator*)
- “Cross Cutting Areas and the Assessment Challenges”  
Bob Biggs (*Entergy, Coordinator, Safety and Regulatory Affairs*)
- “Effectiveness Review of the ROP Program to Date”  
John Butler (*Senior Project Manager, NEI*)
- “ROP – The Next Five Years”  
Jim Andersen (*Branch Chief Performance Assessment Branch, Division of Inspection and Regional Support, NRC*)

## WORK MANAGEMENT (WM)

**8:30 a.m. - 12:00 p.m. (LOCATION: SAPELO)**

### “AP-913/928 Initiatives/Interfaces”

AP928 provides the framework for work management process used to identify, select, plan, schedule, and execute work in a manner that helps ensure high levels of safe and reliable plant operations. AP913 was developed to assist utilities to develop an equipment reliability process to meet the same goals. This session will look at how plants handle the interface between these two programs. In particular, the session will focus on the current initiatives to perform reviews of existing preventative maintenance activities and look at how scoping of equipment is being optimized.

### SESSION ORGANIZER:

Todd Adler (*Manager Work Control, San Onofre, Southern California Edison*)

### SPEAKERS:

- “Linking Equipment Reliability and Work Management”  
Todd Adler (*Manager Work Control, San Onofre, Southern California Edison*)
- “Online Workweek Scope – Making It Stick”  
Doug Lahann (*Manager, Online Outage Work, San Onofre, Southern California Edison*)
- “Single Point Vulnerability, Scoping and Mitigation Implementation”  
Jon Anderson (*Vice President - Business Development, Anderson, Chavet, Anderson*)

## REFRESHMENT BREAK

**10:00 a.m. - 10:30 a.m. (LOCATION: AMELIA BALLROOM)**

(Sponsored by Progress Energy)

## WALK-AROUND LUNCHEON in the VENDOR TECHNOLOGY EXPO

**12:00 p.m. - 1:30 p.m. (LOCATION: AMELIA BALLROOM)**

(Co-Sponsored by Entergy Nuclear Northeast and Westinghouse Electric Corporation)

## SPECIAL PANEL SESSION

**1:30 p.m. - 4:30 p.m. (LOCATION: CUMBERLAND A & B)**

### “Expanding the Fleet”

#### SESSION ORGANIZER:

Brew Barron (*Group Vice President, Nuclear Generation and Chief Nuclear Officer, Duke Energy*)

#### PANELISTS:

- Luis Reyes (*Executive Director for Operations, US NRC*)
- Carol L. Berrigan (*Senior Project Manager, Advanced Reactor Licensing, NEI*)
- Michael J. Wallace (*President, Constellation Generation Group*)
- Jeffrey T. Gasser (*Executive Vice President & Chief Nuclear Officer, Southern Nuclear Operating Company*)

## AFTERNOON REFRESHMENT BREAK

**2:30 p.m. - 3:00 p.m. (LOCATION: AMELIA BALLROOM)**

(Sponsored by Progress Energy)

## RECEPTION in the VENDOR TECHNOLOGY EXPO

**4:30 p.m. - 6:30 p.m. (LOCATION: AMELIA BALLROOM)**

(Sponsored by the Technology Expo Vendors)

(Hosted Bars during Reception—sponsored by SAP America)

**WEDNESDAY, AUGUST 9, 2006**

## CONTINENTAL BREAKFAST

**7:00 a.m. - 8:30 a.m. (LOCATION: AMELIA BALLROOM)**

(Sponsored by HF Controls)

## ENGINEERING (ENG)/EQUIPMENT RELIABILITY (ER)

8:30 a.m. - 12:00 p.m. (LOCATION: OSSABAW)

### “Equipment Failure Analysis, Equipment Reliability Metrics, and Management of Equipment Reliability Data”

As in ENG/ER Session 1, this session will continue to address ways to improve equipment reliability results, but with special emphasis on equipment failure analysis, trending failure data, and the use of ER metrics and data to identify improvement opportunities.

#### SESSION ORGANIZER:

Richard Allen (*Manager, Systems Engineering Programs, Southern California Edison*)

#### SPEAKERS:

- “Equipment Reliability and Corrective Action Synergy”  
Daniel Strong (*Lead Engineer, Equipment Reliability Lead, Progress Energy*)
- “Trending of Critical Equipment Failures, including Critical Equipment Event Clock Resets”  
Mark Baker (*Equipment Reliability Program Owner, Diablo Canyon Nuclear Plant, Pacific Gas and Electric Company*)
- “Equipment Reliability Index – Industry Results in ER Program Implementation”  
C. Ashton Pell (*Fleet Equipment Reliability Manager, FPL Group, Inc.*)
- “SONGS ERI”  
Richard Allen (*Manager System Engineering Programs, San Onofre Nuclear Generating Station, Southern California Edison*)
- “Developing a Site Monitoring Plan”  
Darryl Barney (*Program Manager, Monitoring and Asset Reliability System, Southern California Edison, San Onofre Nuclear Generating Station*) and  
James Nesbitt (*Project and Implementation Manager, Ivara Corporation*)

## ENGINEERING (ENG)/MODIFICATIONS (MODS)

8:30 a.m. - 12:00 p.m. (LOCATION: CUMBERLAND B)

### “Digital Upgrades and Other Emerging Challenges”

This session will address emerging challenges faced by utilities in the nuclear industry. Topics may include digital modifications, engineering product quality, modification performance indicators, work management and transfer of organizational knowledge.

#### SESSION ORGANIZER:

Rick Harris (*Senior Engineer, Duke Energy*)

#### SPEAKERS:

- “Oconee Upgrade to Digital Turbine Controls”  
Bill Edge (*Engineering Supervisor, Oconee Nuclear Station, Duke Energy*)
- “Digital Upgrades at FP&L”  
Ted Quinn (*Vice President, CRS Engineering, Past President - ANS*)
- “Digital Upgrade of the RPS at Dukovany”  
G. Neil Midkiff (*Director, North America Sales - I&C Group Data Systems and Solutions LLC*);  
Bernard Mosio (*Program Manager, Grenoble, Data Systems and Solutions, SAS*); and  
Jean-Michel Palaric (*Senior Engineer, Data Systems and Solutions, SAS*)
- “Engineering Product Quality”  
Vann Stephenson (*Chief Mechanical Civil Engineer, Nuclear Engineering Service, Progress Energy*)

## NUCLEAR SUPPLY CHAIN (NSC)

8:30 a.m. - 12:00 p.m. (LOCATION: CUMBERLAND C)

### “Material Critical Spares and Obsolescence”

This session will address the challenges related to critical spares and part obsolescence that nuclear sites face. Given the industry’s desire to improve equipment reliability through such mechanisms as shorter refueling outage durations and increased on-line work, supply chain managers are increasingly faced with tough decisions related to the correct spare part inventory. Having the right parts to support safety and generating systems is paramount to the continuous operation of a nuclear plant. Execution of these decisions is then severely challenged if the supplier is no longer active or no longer produces the required parts. This session will focus on the challenges in the identification of critical spares and obsolescence of parts and the available industry solutions.

## NUCLEAR SUPPLY CHAIN (NSC) (CONTINUED)

#### SESSION ORGANIZER:

Hrach Minassian (*Senior Staff Engineer, Exelon Corp.*)

#### SPEAKERS:

- “Development of a Critical Spares Program at Wolf Creek”  
Brad Vickery (*Manager Supply Chain Services, Wolf Creek Nuclear Operating Corp*)
- “The Path to Managing Obsolescence Proactively”  
Dan Philipps (*Senior Consultant, Fleet Equipment Reliability & Component Engineering, FirstEnergy*)
- “POMS—Proactive Obsolescence Management System”  
Paul Tobin (*President, PKMJ Technical Services*)
- “Alternatives to Equipment Obsolescence”  
Craig Irish (*VP Sales and Marketing, Nuclear Logistics Inc.*)

## OPERATIONS (OPS)

8:30 a.m. - 12:00 p.m. (LOCATION: CONFERENCE I & 2)

### “Meeting the Future Needs in Operations”

This session will identify likely personnel obstacles to achieving excellence into the future and will examine possible strategies for moving forward. While the discussion will address the future, the focus will be on innovative ways to overcome anticipated vulnerabilities based on a changing environment. Consideration will be given to the unique problems associated with the fatigue rule and an aging workforce, including those associated with knowledge transfer and the successful indoctrination of neophytes into a strong nuclear culture. Prime discussion areas also include recruiting, training, and diversity issues. Attendees should be prepared to engage with the speakers to achieve meaningful results.

#### SESSION ORGANIZER:

Chris Costanzo (*Plant Manager, St. Lucie Plant, Florida Power & Light Company*)

#### SPEAKERS:

- “The Power of the People, Entergy’s Cornerstone Strategies”  
John McElwain (*Manager, Human Resources, Entergy*)
- “Insights on Meeting Future Operator Needs from a Florida Power and Light Perspective”  
Bill Jefferson (*formerly the Senior VP at ST. Lucie*)

## PERFORMANCE IMPROVEMENT (PI)

8:30 a.m. - 12:00 p.m. (LOCATION: CONFERENCE 4 & 5)

### “Operating Experience (OE), the Key to Organizational Learning”

If history has told us anything, it’s that wisdom is gained by the lessons learned and experiences of others successes and failures. OE is the nuclear industry’s Rosetta Stone. OE allows us to learn from others mistakes and to significantly improve performance in the future. This session will focus on the optimal consolidation and application of OE.

#### SESSION ORGANIZER:

Robert Burnett (*Manager Operating Experience, Entergy South Corporation*)

#### SPEAKERS:

- “Corporate OE Screening and Analyses”  
Robert Burnett (*Manager Operating Experience, Entergy South Corporation*)
- “Operating Experience—Don’t Leave Home Without It”  
William R. Corcoran (*President, Nuclear Safety Review Concepts Corporation*) and  
Vincent Coulehan (*Manager, Operating Experience, Entergy Nuclear Northeast*)
- “Benefits of OE in your Root Cause Analysis”  
Ty Tonkinson (*Simple Approach Inc.*)
- “Performance, Behavior, and the Operating Experience”  
Dick Swanson (*President and CEO of Performance Management Initiatives, Inc.*)

## Technical Sessions

### PROBABILISTIC RISK ANALYSIS (PRA)

8:30 a.m. - 12:00 p.m. (LOCATION: CONFERENCE 3)

#### "Risk-Informed Decision-Making in Utility Operations"

Utilities make risk-informed decisions using input from probabilistic risk assessments (PRAs) in a wide range of operations. The most prominent of these is day-to-day configuration risk management to plan and to execute on-line maintenance. Similar techniques are applied to planning and executing outages. Many utilities have revised Allowed Outage Times, Surveillance Test Intervals, In-service Testing Programs, and In-service Inspection Programs based on risk insights. The risk impacts of proposed design modifications and procedure revisions are evaluated. Simulator training scenarios for reactor operators, emergency response drills, and security exercises are designed using risk considerations. Regulatory interfaces are increasingly dependent on risk information applied in response to Mitigating System Performance Indicators, the Significance Determination Process, Plant Event Responses, and Inspection Findings. This session will provide reports from leading utilities on their use of risk-informed decision-making and the impact that it has had on their management processes. Presenters will be requested to estimate the cost-benefit balance that has been produced by the use of risk information in their decision processes.

#### SESSION ORGANIZER:

William E. Burchill, Ph.D. (Department Head and Professor, HTRI Professor, Nuclear Engineering, Texas A&M University)

#### SPEAKERS:

- "Implementation Issues Associated with Risk Informed Burden Reduction Initiatives"  
Greg Krueger (Senior Manager - Risk Management, Exelon Corporation)
- "How Do You Think?"  
Mark Reinhart, (Senior Safety Assessment Officer, Safety Assessment Section, Division of Nuclear Installations, International Atomic Energy Agency)
- "Risk Informed Technical Specification Initiative 4B, Configuration Risk Management, Status and Update"  
Rick Grantom (Manager, Risk Management, South Texas Nuclear Operating Company)
- "Management/Safety Oversight Using Risk-Informed Measures"  
Steve Nader (PRA Supervisor, Duke Power)
- "Risk-Informed Decision-Making at Dominion"  
Thomas G. Hook (Nuclear Engineering Supervisor, PRA, Dominion Resources)

### REGULATORY RELATIONS (RR)

8:30 a.m. - 12:00 p.m. (LOCATION: TALBOT)

#### "Interactions between the NRC and Industry on Generic Issues"

Regulatory stability and predictability are key enablers of operating decisions for current plants and business decisions for new plants. The interactions through which the NRC and the industry identify, debate, and resolve generic issues are important contributors to either increasing or decreasing stability and predictability. The objectives of today's session are to define the term "generic issue" and discuss how NRC and industry can better align expectations about generic-issue communications, prioritization, and scheduling. Common definitions and expectations are essential for regulatory stability and predictability.

#### SESSION ORGANIZERS:

- Don Woodlan (Regulatory Affairs Strategic Issues Group Manager, Strategic Teaming and Resource Sharing (STARS))
- Michael A. (Mike) Schoppman (Senior Project Manager, Nuclear Energy Institute)

#### SPEAKERS:

- "Opportunities Available to Improve NRC/Utility Interactions; Inquire Within"  
Michael J. Yox (Senior Engineering Analyst, Constellation Energy)
- "Where is CRGR When You Need Them?"  
Keith R. Jury (Director- Licensing and Regulatory Affairs, Exelon Nuclear)
- "Does Anybody Really Know What a Rule Is? (Why Everybody Should Really Care!)"  
William Horin (Partner, Winston and Strawn, LLP)
- "Generic Communications – An Effective Communication Process"  
Alex Marion (Senior Director, Engineering, NEI)
- "An Effective Generic Communications Program for the Future"  
Gary M. Holahan (Associate Director for Risk Assessment and New Projects, Office of Nuclear Reactor Regulations, USNRC)

### WORK MANAGEMENT (WM)

8:30 a.m. - 12:00 p.m. (LOCATION: SAPELO)

#### "Maintenance Rule Unavailability/On-line Maintenance"

The age old question of how much on-line maintenance should be performed will be the focus of attention in this session. The work management process flowchart provides guidance for when work can be performed on-line, the work and retesting does not require the plant to shutdown. If the work can be performed on-line it is still necessary to determine if it should be performed on-line. This requires a utility to consider the PRA/PSA impact, the yearly out-of-service times, and the unavailability and reliability goals for the system. This session will focus on how utilities are balancing performing maintenance on-line against the unavailability to important systems that this work results in.

#### SESSION ORGANIZER:

Dewey W. Evans (Fleet Work Management Manager, FirstEnergy Corporation)

#### SPEAKERS:

- "Mitigating System Performance Indicator (MSPI) – How It Works, A Work Management Perspective"  
Todd Adler (Manager Work Control, San Onofre, Southern California Edison)
- "Equipment Reliability and Unavailability – The Maintenance Strategy Paradox"  
Dewey W. Evans (Fleet Work Management Manager, FirstEnergy Corporation)
- "Online LCO Planning and Your Maintenance Strategy"  
Robert M. Paley (Manager, Work Management Susquehanna Steam Electric Station)

### REFRESHMENT BREAK

10:00 a.m. - 10:30 a.m. (LOCATION: AMELIA FOYER)

### WRAP-UP LUNCHEON

12:00 p.m. - 1:00 p.m. (LOCATION: CUMBERLAND A)

Have you  
reserved a booth  
for the ANS Expo 2006?

**WHY NOT?**



**Contact: Sharon Bohlander  
Exhibit Manager  
(301) 570-7766 x227**

**Bohlander@earlbeckwith.com  
www.earlbeckwith.com**

## PROFESSIONAL DEVELOPMENT WORKSHOP ROOT CAUSE ANALYSIS

for Safety Culture and Human Performance Improvement

Thursday, August 10, 2006 • 8:30 a.m. - 4:30 p.m. • Location: Ossabaw

LUNCH: 11:30 a.m. - 1:00 p.m. (Location: Talbot)

### Workshop Organizer and Chief Instructor:

Dr. Bill Corcoran, President, Nuclear Safety Review Concepts, Windsor CT  
Telephone: 860-285-8779  
Email: firebird.one@alum.mit.edu

### Materials Provided:

- 1) Hard copy of PowerPoint™ Slide Show for note taking
- 2) PowerPoint file (PPT) of slideshow for use in cascade training in attendees' organizations
- 3) Portable document format (Adobe PDF) file of *The Phoenix Handbook*, the ultimate investigation manual for finding profit improvement in adverse experience (a \$150.00 value)
- 4) Microsoft Word (DOC) file of Root Cause Analysis Report template for use at attendees' organizations

Workshop attendance is limited to the first thirty (30) paid applicants to provide for collegial discussion and individual attention.

### Who Should Attend:

This workshop is for professionals whose current or near-term future duties involve:

- sponsoring or conducting root cause analyses of adverse events or their precursors
- training event investigation teams
- assessing the effectiveness of event investigations
- managing the outcomes of event investigations
- managing or assessing corrective action programs
- defending the regulatory aspects of event investigations
- involvement in Safety Conscious Work Environment

### Who Should NOT Attend:

This workshop is not for people who want to continue thinking that:

- Event investigation is a well-defined science about which nothing new can be learned.
- There is a single right way to do root cause analysis.
- For every consequential event there is one single root cause.
- My organization could not have a serious event any time soon
- Event consequences are not controlled by business decisions.
- Event investigation should be done mainly to satisfy outside agencies.

### What Will Happen:

During this workshop we will journey with the instructor through a safety culture and human performance-oriented approach to event investigation organizational learning.

We will take away immediately usable tools that have been applied successfully in the contexts of nuclear power generation, fossil power generation, electric transmission and distribution, natural gas distribution, site remediation, and manufacturing.

We will participate in hands-on individual and group work in the actual application of bottom-line customer focused techniques that take full advantage of investigators' abilities to do out-of-the-box thinking.

This workshop will furnish the attendees with a spectrum of immediately applicable action items that will be in full compliance with most existing corrective action programs. Participant-instructor interaction will emphasize the modeling and emulation of proven investigator and management behaviors.

### Workshop Topics Will Include:

- Lessons to be Learned from Recent Consequential Events
- Business Incentives for Cost-effective Investigations
- Advance Preparation for Effective Investigation
- Avoiding Fatal Investigation Errors
- Effective Event Investigation Team Formation, Development, and Leadership
- Investigative Ethics
- Accommodating Diversity in Team and Customers
- Asking the Right Questions
- What to do Before Management Becomes Enlightened
- Using Event Investigation as a Window into the Culture
- Evaluating Event Investigation Effectiveness
- Evaluating Event Investigation Program Effectiveness

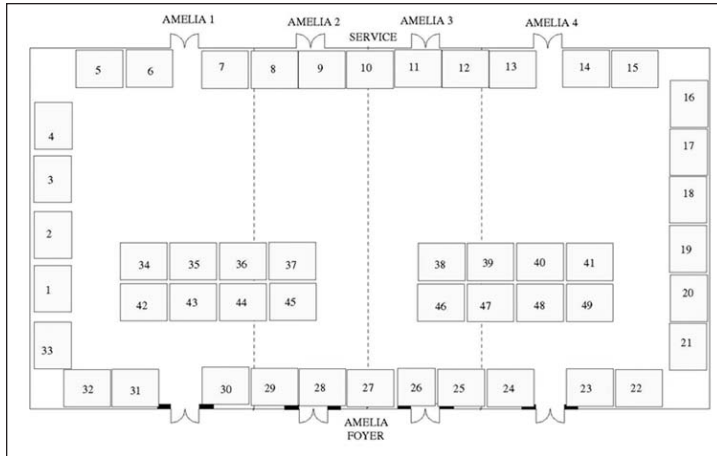
### IMPORTANT NOTICE:

Electronic workshop materials will be distributed by email attachment and/or internet download to paid registrants about two weeks before the workshop.

We would like to extend a special thanks to the following organizations who have made an outstanding contribution to the success of the

# 2006 UTILITY WORKING CONFERENCE VENDOR TECHNOLOGY EXPO

## 2006 UTILITY WORKING CONFERENCE VENDOR TECHNOLOGY EXPO FLOOR PLAN



### **Alphasource, Inc., Philadelphia, PA (Amelia Foyer)**

Alphasource, Inc. is a leading custom manufacturer and distributor of industrial and maintenance supplies for the Nuclear Power Generation Industry. We offer our award-winning Complete FME Turnkey Program, Tarps and Protective Covers, Safety and Decontamination Supplies, Fall Protection, Confined Space, Lifting and Rigging, Spill Control Products, Towel and Wiping Cloths Program.

### **American Crane & Equipment Corporation (ACECO), Douglassville, PA (Booth #22)**

American Crane is a leading provider of cranes, hoists, manipulators and specialized life systems for the commercial nuclear industry. ACECO has significant experience supplying single failure-proof replacement cranes and trolleys for dry spent fuel storage operations. ACECO has performed upgrades of a variety of nuclear plant cranes, including reactor building and turbine cranes. ACECO has a full-time service group to perform maintenance of plant cranes. ACECO has all the inhouse capabilities to provide the cranes needed for new plant construction.

### **American Tank and Fabricating Company, Cleveland, OH (Booth #21)**

American Tank & Fabricating Company has earned a reputation for quality and service by providing steel solutions to customers since 1940. We offer a unique combination of equipment capabilities, professional staff and quality systems that make us your best choice for nuclear components and materials. Quality systems include; NQA-1, ASME N, NPT, NS, N3, U, U2, & S. Materials fabricated and supplied include; carbon, stainless, alloy, armor, titanium, zirconium and other advanced materials.

### **Anderson, Chavet and Anderson (ACA), Avondale, AZ (Booth #6)**

ACA is the leading provider of nuclear consulting and technology solutions for Equipment Reliability and plant performance. The ACA solutions solve the critical problems that impact every level of owning and operating a nuclear power station. The ACA engagement can be realized in the areas of increasing company stock price, capital/ maintenance budgets, INPO ranking, NRC oversight, nuclear insurance, plant reliability, quality of life and the most important impact, capacity factor. ACA believes that, "as Equipment Reliability goes, so goes plant performance and capacity factor."

### **AREVA, Lynchburg, VA (Booth #10)**

With manufacturing facilities in over 40 countries and a sales network in over 100, AREVA offers customers technological solutions for highly reliable nuclear power generation and electricity transmission and distribution. The group also provides interconnect systems to the telecommunications, computer and automotive markets. These businesses engage AREVA's 58,000 employees in the 21st century's greatest challenges: making energy available to all, protecting the planet, and acting responsibly towards future generations.

### **Argo Turboserve Corporation, Carlstadt, NJ (Booth #23)**

The Utility Services Division (USD) of ATC offers supply chain management, inventory management, investment recovery, and technical services to the utility industry. USD is comprised of: Spectrum Technologies, Southern Testing Services (STS), Spare Parts Supply, and Investment Recovery Services. Spectrum, a Solution to Obsolescence Company, is a third party qualifier, providing Class 1E Qualified Electrical, Mechanical, and Digital Control Equipment, including Validation and Verification of Software, and EMI/RFI testing services. Since 1981, Southern Testing Services has provided Class 1E components and environmental and seismic qualification services and commercial grade dedication services. STS represents Class 1E OTEK Digital Panel Meters and Class 1E MOORE Controllers.

### **Bartlett Nuclear, Inc., Plymouth, MA (Booth #36)**

Bartlett has over twenty six years of experience providing radiation safety, maintenance, janitorial, professional, decontamination and decommissioning and other managed staff augmentation services to nuclear, industrial and government facilities nationwide. Bartlett also offers equipment and technologies including automated monitoring systems, Excel modular scaffolding, portable ventilation systems and contamination control materials.

### **Bechtel Power Corporation, Frederick, MD (Booth #38)**

Bechtel offers the most complete selection of nuclear support services available. New nuclear generation. Operating plant services. Steam generator replacements. Reactor pressure vessel head replacements. Plant license renewal and life extension. Operations improvement programs. A center of excellence dedicated to process improvement and innovation. And a commitment to nuclear power that started with the industry's inception.

### **Black & Veatch, Overland Park, KS (Booth #1)**

Black & Veatch has served the nuclear industry consistently since the closing years of World War II. We support U.S. operating nuclear plant projects, providing engineering studies, design modifications, procurement services, construction management and installation services. Black & Veatch is currently engaged in the design and construction management of an advanced boiling water reactor nuclear facility.

### **Bluegrass Concrete Cutting, Inc., Greenville, AL (Booth #49)**

Bluegrass Concrete Cutting has performed concrete cutting, drilling and breaking services in over sixty commercial and government nuclear facilities. Services range from foundation removals and wall opening for new ductwork to service water intake modifications to major bio-shield wall removal and containment openings for steam generator replacement projects.

### **CORE Inc., Arvada, CO (Booth #16)**

CORE provides reliability engineering services that develop cost-effective, performance-based scheduled maintenance. CORE's patent-pending RCM-trim™ software & ER-plus™ Equipment Reliability Process quickly build risk-based PM plans with their engineering basis using equipment templates.

### **Crane Nuclear, Inc., Kennesaw, GA (Booth #9)**

Crane Nuclear, Inc. provides valve products and services to the domestic and international nuclear power industries. Products and services include nuclear-grade and safety-related valves and valve parts, valve testing products, engineering, repair and testing services. Valve testing products developed by Crane Nuclear are used worldwide to help ensure nuclear plant safety and maintain reliable performance of safety-related motor-operated valves, air-operated valves and check valves.

### **Curtiss-Wright Flow Control, Brea, CA (Booths #43, #44, #45)**

Curtiss-Wright Flow Control's Commercial Power and Services Group provides ASME Code, safety-related, IEEE, and commercial products and services to nuclear utilities: EMD - Reactor coolant pumps and motors, control rod drive mechanisms and primary loop valves; Enertech - Valves, actuators, pumps, instrumentation, pipe restraints, vibration isolators, and diagnostic equipment; Nova - Fasteners, HydraNut bolting solutions, fabrication, inventory and supply chain management services; Trentec - Airlocks, specialty doors, custom fabrication, diamond wire concrete cutting, qualification and dedication services; Target Rock - Process Solenoid Valves, MSSRV, PORV and other special nuclear plant application valves, and engineering services.



## **Dade Moeller Technical Services, West Barnstable, MA (Booth # 5)**

Dade Moeller & Associates is an award-winning, employee-owned small business specializing in health physics, industrial hygiene, and safety support to government and commercial nuclear facilities. Our staff includes more full-time Certified Health Physicists (28) than any other private company; we support professionalism and the NRRPT. Government, business, and labor leaders have recognized and commended our ability to address worker safety concerns in radiological environments. Dade Moeller Technical Services, LLC offers full-scope radiological field services.

## **Data Systems & Solutions, LLC, Reston, VA (Booth #39)**

Data Systems & Solutions, LLC, a subsidiary of Rolls-Royce, is a global supplier of decision support and control systems and services to the Energy, Aviation, Defense and Process Industries. In 2002 we acquired the assets of Schneider Electric Industries SA, and the flagship digital platform, SpinLine 3™, further extending our leadership in nuclear instrumentation and Control Services (I&C). We have over 800 engineering and technical employees working from many locations around the world with primary offices in the USA, UK, France and the Czech Republic.

## **Day & Zimmermann NPS, Lancaster, PA (Booth #47)**

Day & Zimmermann NPS (DZNPS) is one of the nation's leading union labor contractors dedicated to expertly providing comprehensive, fully managed maintenance and modifications at nuclear and fossil-fired power plants. Multi-site, system-wide contracts are a DZNPS specialty. In 2005, DZNPS provided project managed modifications and maintenance, and craft labor services to our clients at 50 fossil units and 24 nuclear units nationwide. We have accelerated our customer's success with operational excellence grounded in a continuous improvement culture, and an unwavering commitment to safety as our number-one value. Our ability to manage projects and maintenance productively through our unmatched craft labor management practices brings consistency and predictability to cost and schedule, routinely saving our customers millions of dollars.

## **Doosan HF Controls Corporation, Addison, TX (Booth #18)**

Doosan HF Controls is a global leader in providing complete process control and automation solutions through unprecedented leadership, innovative technology, and unparalleled service. We specialize in the design and construction of high-quality control systems for a variety of power, industrial, and nuclear applications.

## **Duratek, Inc., Kingston, TN (Booth #48)**

Duratek solves complex radiological, liquid, and radwaste services challenges facing today's commercial nuclear utilities. Our onsite services include radwaste volume reduction, including liquid waste processing and dewatering, fuel pool cleanup, tank cleaning, and remediation operations. These services are complemented by our Hittman transportation services and casks, engineered systems, offsite fixed based LLRW processing facilities with incineration and metal melting, and operation of the Barnwell disposal site. With such turnkey operations, clients are assured that their radwaste issues can be resolved from a single source Duratek. Duratek's fleet services, its ability to provide a combination of services to multiple plants within a utility, offers large nuclear utilities increased efficiency and cost savings for radwaste volume reduction.

## **Enercon Services, Inc., Kennesaw, GA (Booth #7 & #8)**

Enercon Services specializes in energy and environmental projects and provides full-scope engineering, technical and professional services to clients around the world. ENERCON provides licensing and engineering support to new nuclear plant and operating plant customers. Scope of service includes siting studies, comprehensive design, operational programs, licensing, engineering, procurement and construction management.

## **EPM, Inc. (Engineering Planning and Management, Inc.), Framingham, MA (Booth #27 & 28)**

EPM is the leading provider of fire protection services to the nuclear industry. EPM was established twenty-five years ago to help nuclear plants achieve compliance with regulatory issues. EPM has been a constant provider of services related to nuclear plant engineering programs since that time and continues to provide expert guidance as regulations change and evolve. One facet of EPM's fire protection services includes assisting plants with the feasibility of and transition to the new performance-based, risk-informed regulatory environment described in NFPA 805. EPM is also a leading provider of innovative software tools that optimize the processes to achieve regulatory compliance in a cost-effective manner. EPM's integrated software tools include EDISON (cable/wire and raceway management); SAFE (performance-based and deterministic safe shutdown analysis tool); and MILIEU (environmental qualification tool). EPM's third area of specialty is materials management, procurement engineering, and BOM development. Field services staffing is provided in all areas.

## **EXCEL Services Corporation, Rockville, MD (Booths #31, #32 & #33)**

EXCEL Services Corporation specializes in providing operations, Engineering, safety and regulatory services for energy and environmental projects world-wide. These specialized services include: License Renewal, Power Uprate, 24 Month Fuel Cycle Conversions, Licensing and Operations Support, Improved Technical Specifications Conversions, Quality Assurance Solutions, Training, Spent Fuel Storage Licensing, New Plant Site Permitting (ESP), and Combined License (COL) Support. EXCEL has worked with almost every nuclear power plant and many other nuclear facilities in the U.S., and has worked with many international nuclear facilities and organizations for over 20 years.

## **Flowserve Pump Division, Vernon, California/Charlotte, North Carolina (Booth #24 & #25)**

Flowserve is the world's premier provider of industrial flow management services. The company produces engineered pumps, precision mechanical seals, valves and actuators. The company also provides a range of related flow management services. Flowserve Corporation's Pump Division (FPD) is the driving force in the Nuclear Pump Industry with heritage names such as Byron Jackson, Pacific, Worthington and others. Products include: New Pumps, Pump Upgrades, Pump Repairs (contaminated and clean), On-Site Technical Services, Turnkey Services, Engineering Support, Mechanical Seals and more.

## **Graybar, Greensboro, NC (Booth #20)**

Graybar, a Fortune 500 corporation, is a leader in the distribution of high quality electrical, telecommunications and utility transmission and distribution products, and an expert provider of related supply chain management and logistics services. Graybar employs more than 8,000 men and women at more than 250 distribution centers throughout the U.S. As one of North America's largest employee-owned companies, Graybar has the power and stability of a big corporation and the integrity and drive of a neighborhood business.

## **Indus, Atlanta, GA (Booth #41)**

Indus is a leading provider of Service Delivery Management (SDM) solutions, which help clients in a broad array of industries optimize the management of their customers, workforce, spare parts inventory, tools and documentation in order to maximize performance and customer satisfaction while achieving significant cost savings. Indus customer, asset and field service management software products, professional services and hosted service offerings improve our clients profitability by reducing costs, increasing capacity and competitiveness, improving service to their customers, facilitating billing for services and ensuring regulatory compliance.

## **Invensys Process Systems, Irvine, CA (Booth #26)**

*Invensys Process Systems - Continued commitment to the nuclear power industry*  
Invensys Process Systems provides products, services and solutions that enable today's industrial process plants to monitor, manage and improve the performance of their production assets. Invensys Process Systems includes industry-leading brands such as Foxboro, Triconex, SimSci-Esscor, Wonderware, and Avantis, whose products help automate and optimize plants across the world. With nearly five decades of nuclear industry experience worldwide, an advanced process control system from Foxboro, 1E certified safety systems from Triconex, and sophisticated simulation tools from SimSci-Esscor, Invensys Process Systems brings together the expertise and resources to provide the industry's only fully integrated instrumentation and digital control upgrade solution.

## **Joseph Oat Corporation, Camden, NJ (Booth #14)**

Joseph Oat is an integrated designed and fabricator of AME Section III/safety-related products for the Nuclear Power Industry. We have supplied Section III heat exchangers, pressure vessels, canisters and NQA-1 safety related components to customers worldwide. Our QA system has been audited by NUPIC and complies with NQA-1 & 10 CFR 50 Appendix B. Joseph Oat has continuously held an 'N' Stamp certification since 1966.

## **Kinectrics, Inc., Toronto, Ontario, Canada (Booth #13)**

Kinectrics provides a wide range of advanced services for the nuclear industry, offering clients a "one-stop shop" with comprehensive expertise and proven capabilities in Life Assessment and Management, Inspection and Maintenance and Structural Integrity. Kinectrics is a qualified supplier in North America for genuine nuclear parts, reverse engineering and Commercial Grade Dedication services. Specialized radioactive materials and analytical chemistry laboratories, and electrical testing facilities complement Kinectrics' services for generation plant. The former technical division of a major utility in North America and now independent company, Kinectrics is recognized worldwide as a leading supplier of quality services and products for the nuclear industry.

## Technical Exhibitors

### **Mackson, Incorporated, Rock Hill, SC (Booth 15)**

Mackson Incorporated is a leading supplier of ASME and safety related nuclear materials. From fasteners, bolting and precision parts to structural steel, piping and fabrication, we have taken great pride in providing our customers with the highest quality products and services in the nuclear industry. Mackson currently holds a current ASME Certificate and has been audited by NUPIC and NIAC. We welcome the opportunity to demonstrate the quality and service, which has become our trademark.

### **Major Tool & Machine, Inc., Indianapolis, IN (Booth #40)**

Major Tool & Machine provides the nuclear industry best value, turnkey engineering, fabrication and machining services. Our extraordinary capability, capacity and experience are driven by our commitment to quality assurance. This is recognized through our ASME N, NPT, N3, U and U2 certifications. In addition, our Nuclear Quality Assurance Program is audited to the requirements of NQA-1, and complies with 10CFR21, 10CFR50 part B, 10CFR71 subpart H, 10CFR72 subpart G, and 10CFR830. Our combined strengths of outstanding program management, unparalleled capability and uncompromising quality assurance provide our customers the Major difference.

### **Mitsubishi Heavy Industries, Ltd., Tokyo, Japan (Booth #11 & #12)**

Mitsubishi has been engaged in the nuclear energy business for more than 3 decades and has constructed 23 domestic PWR plants. Mitsubishi is the only organization to produce such a large range of equipment and services for nuclear power generation, including Architectural engineering, Nuclear Steam Supply Systems, Turbine Generator Systems, Electrical Systems, I&C Systems, Nuclear Fuel and Balance of Plant Systems. Mitsubishi also performs all post-operational services. The U.S. Headquarters for MHI's Nuclear Energy Systems is located in Monroeville, PA. MHI has firmly established itself in the U.S. with contracts for 15 RV Heads, 6 CE type RSG's and one replacement Pressurize.

### **Newport News Industrial Corporation, Newport News, VA (Booth #4)**

NNI inspects, repairs and maintains valves, pumps, turbines and other plant equipment. With extensive rigging, machining and welding capability, NNI also repairs, modifies or replaces piping and components. We offer new and innovative solutions like our environmentally friendly chemical cleaning process and HotGuard(tm) lead-free radiation shielding products for a safer and more efficient approach to plant maintenance. In addition to providing turn-key on-site services, we have a large fabrication and overhaul facility in Virginia.

### **Nuclear Logistics Inc., Fort Worth, TX (Booth #34)**

NLI is your single source for safety related equipment, equipment maintenance and qualification resources. NLI combines the three attributes of engineering, fabrication and testing to meet our clients equipment needs.

### **Nuclear Plant Journal, Glen Ellyn, IL (Booth #17)**

Nuclear Plant Journal, A 23-year-old publication, provides technical information exchange among managers and engineers in the nuclear power industry worldwide (12,000 Circulation in 25 countries). The Journal is BPA audited and most of its audience are managers and engineers in the nuclear power industry. It is published six-times per year. Annual Products & Services Directory is published every year in January. Journal's Website features Electronic Advertising and Internet Directory.

### **NuCon Corporation, Knoxville, TN (Booth #35)**

NuCon provides quality, cost effective solutions to your hazardous waste containment needs. Offering special fabricated containers and prototypes, IP1 and IP2 cargo containers, top-loaders, 90 cu.ft. and 45 cu.ft. as well as custom sized burial boxes, intermodals and rolloff containers. NuCon also offers a complete line of soft-sided overpacks, liners, tarps, lifting bags and absorbents. NuCon has an NQA-1 quality program and is located in a Hubzone.

### **PaR Nuclear, Inc., Shoreview, MN (Booth #29)**

PaR Nuclear Inc., is the current leading designer and supplier of fuel handling equipment for commercial nuclear power plants that require new equipment or major equipment upgrades. PaR Nuclear provides refueling machines, manipulator cranes, spent fuel handling machines, CEA handling platforms, fuel transfer systems, BWR refueling platforms, simulators/testers for PWR refueling machines and control room fuel handling operation monitoring (Control Room Supervisor) systems. PaR Nuclear also provides Single Failure Proof cranes and Single Failure Proof upgrades to existing cranes for compliance with NUREG 0554 and related fuel storage cask handling operations. Additionally, PaR Nuclear provides new cranes and reliability and efficiency upgrades for existing large/ outage critical cranes. PaR Nuclear has in excess of 35 years of experience and development of remote handling equipment and provides equipment used in inspection, vitrification, classification, decommissioning and size reduction

### **PaR Nuclear, Inc., Shoreview, MN (Booth #29) (continued)**

of nuclear steam supply systems and DOE and DOD waste. PaR Nuclear maintains a complete on-site services group to service all types of fuel handling equipment, large cranes, and remote handling equipment.

### **Scientech, LLC, Gaithersburg, MD (Booth #42)**

Scientech, LLC provides utility clients with the hardware, technology, risk and reliability, information and process solutions to reduce costs and improve efficiency, safety, performance and knowledge. Areas of expertise include risk assessments, reactor and steam generator servicing equipment and services, chemistry quality control software and services, plant process computer replacements, thermal performance and safety monitoring software, training, procedures/e-procedures, work management systems, hardware solutions for obsolete instrumentation, licensing and regulatory compliance and subscription database services like LIS, TRENDS, NIIS, EQDB, and RAPID.

### **Shaw Stone & Webster Nuclear Services, Stoughton, MA (Booth #37)**

Shaw Stone & Webster Nuclear Services is the largest supplier of maintenance & modification, engineering, construction, construction management, environmental, decommissioning, management consulting, T&D, and pipe fabrication services to the U.S. nuclear industry. We are fully committed to supplying these services safely, cost effectively and to our high quality standards. Stone & Webster, a Shaw Group Company, is a full service engineer-constructor. We, provide complete project management, plant design, engineering, quality assurance, construction, construction management, startup, testing, operations support for the upcoming fleet of new nuclear plants.

### **Spescom Software, San Diego, CA (Booth #2)**

Spescom Software provides eB Nuclear, an integrated document, configuration and records management software platform that enables nuclear power plant operators to effectively manage plant configuration data and all associated documents and records throughout the life cycle of the plant. Spescom enables power plant operators to consolidate a range of applications in an integrated environment resulting in improved outage management, regulatory compliance and safety, reduced operational and IT costs and greatly enhanced access to accurate information about their plant.

### **Sulzer Pumps, Portland, OR (Booth #46)**

Sulzer Pumps - Foremost in Nuclear Pumping Equipment - offers the power generation industry an extensive range of innovative products and services. Whatever the type of power plant - nuclear reactor, fossil-fired, geothermal, combined cycle, large and small industrial power plants - we deliver boiler feed, condensate extraction, boiler circulator, cooling water and auxiliary pumps, as well as specialized safety pumps for nuclear power plants. We continue to be a world leader in boiler feed pumps for supercritical power plants.

### **UniTech Services Group, Inc., Springfield, MA (Booth #3)**

USG is the world's leader in the supply and laundry decontamination of nuclear protective wear to the Utility, DOE, DOD and Fuel Fabrication operations. We service the U.S. and Canadian markets from 10 radioactive licensed facilities nationwide; our U.K. and European customers are serviced from our plant in Holland. We supply Total Protective Wear Programs on a direct sale, lease or rental basis as well as metal, decon, mobile laundry and respirator service units and personnel.

### **Washington Group International, Boise, ID (Booth #19)**

Washington Group International provides integrated engineering, procurement, construction and maintenance services to the commercial nuclear industry and similar services in support of managing and operating government nuclear facilities. The Steam Generating Team (SGT), a partnership between Washington Group and AREVA (Framatome-ANP), is a leading supplier of engineering and construction support services for large component replacements.

### **Westinghouse Electric Company, Pittsburgh, PA (Booth #30)**

Westinghouse Electric Company provides fuel, services, technology, plant design, components and equipment to utility customers in the global commercial nuclear electric power industry. We are also proud of our next generation nuclear power plant - the AP1000 - which has fewer components than today's plants and has safety systems based on natural phenomena like condensation. The AP1000 is the only Generation III+ reactor to receive Design Certification from the U.S. Nuclear Regulatory Commission. Westinghouse nuclear technology will help provide future generations with safe, clean and reliable electricity.



