

July 15, 2010

MEMORANDUM TO: Richard A. Rasmussen, Chief  
Quality and Vendor Branch 2  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

FROM: Samantha Crane, Reactor Operations Engineer */RA/*  
Quality and Vendor Branch 2  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

SUBJECT: SUMMARY OF THE SECOND NRC WORKSHOP ON VENDOR  
OVERSIGHT FOR NEW REACTOR CONSTRUCTION

On June 17, 2010, the Office of New Reactors (NRO) hosted the 2nd Nuclear Regulatory Commission (NRC) Workshop on Vendor Oversight for New Reactor Construction in New Orleans, LA. The NRC held the workshop upon the completion of a Nuclear Procurement Issues Committee (NUPIC) meeting to ensure maximum participation by suppliers to the nuclear industry. This workshop included presentations by NRC staff, NUPIC, the American Society of Mechanical Engineers (ASME), the Nuclear Energy Institute, the Electric Power Research Institute (EPRI) and three nuclear vendors. The workshop included discussions on such issues as vendor oversight for new reactors; safety culture; the ASME nuclear survey process; the NRC enforcement policy as it applies to vendors; counterfeit, fraudulent or suspect items; and vendor insights on licensee, NUPIC, ASME, and NRC oversight. The list of speakers is provided in Enclosure 2. All presentations are available in the NRC's Agencywide Documents Access and Management System (ADAMS) as accession number ML101610439.

The 484 workshop attendees represented companies and organizations from 11 countries to include: 233 vendors, 3 industry groups, 10 government regulatory agencies, and 45 foreign and domestic utilities, including NRC license applicants (design certification, combined license and fuel cycle facility).

#### Opening Session

Mr. Richard Rasmussen, Chief of the NRC's Quality and Vendor Branch 2, in the Division of Construction Inspection and Operational Programs (DCIP) in the Office of New Reactors (NRO), welcomed the workshop attendees and delivered opening remarks for the workshop. Mr. Glenn

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Tracy, NRC Director of DCIP in NRO, discussed the NRC's perspective of the vendor inspection program for new reactors and discussed the key messages from the 1<sup>st</sup> NRC workshop on vendor oversight for new reactors, the status of new reactors and fuel facilities, and recent vendor issues. He went on to discuss counterfeit, fraudulent and suspect items, and global regulatory cooperation in vendor oversight. Mr. Tracy stressed that first and foremost, it's the licensee that is ultimately responsible for quality. Mr. Tracy also stressed that rigorous vendor oversight is crucial to maintaining the integrity of the global supply chain and new reactor safety; that safety culture promotes quality in the global supply chain; that vigilance is key to prevent the entry of counterfeit, fraudulent, and suspect items into the industry; and that it is important to be an intelligent customer.

Mr. John Larson, the NUPIC Chairman, discussed how NUPIC is adapting to changing times and a global market. He discussed challenges with an aging workforce and ability to attract new talent, the importance of knowledge management, the global supply chain, and the importance of being self critical. He then went on to discuss safety culture and emphasized the expectation that NUPIC audits will be performance based audits with technical specialists; the auditors will be self critical and have a questioning attitude; and the auditors must be aware of important events in the nuclear industry. In addition, he stressed that since nuclear is "special," all vendors are held to the same standards regardless of the size of the vendor or the percentage of nuclear work done in a shop. Lastly, Mr. Larson discussed some of the recent NUPIC audit trends and findings.

### Safety Culture Session

Mr. Mark Harvey of UniStar Nuclear opened the session with a discussion on establishing and maintaining a safety conscious work environment (SCWE) for new nuclear construction with a focus on the Nuclear Energy Institute's (NEI) document NEI 09-12, "Safety Conscious Work Environment." Mr. Harvey discussed the development of the document, the parties involved in its development, and the status of the document. NEI 09-12 incorporates industry guidance from the NRC, the Institute of Nuclear Power Operations (INPO), and NEI. Mr. Harvey stressed the need for SCWE standardization and to create a guidance document that has everything in one place. The document provides a defined set of elements to implement SCWE. He commented that NEI 09-12 is good for construction site implementation and that engineering, procurement and construction contractors (EPCs) and applicants for combines licenses are encouraged to use NEI 09-12 in construction planning.

Next, Mr. Jose Ibarra for the NRC's Office of Enforcement discussed the NRC's Safety Culture Initiative. He pointed out how operating experience shows a nexus between events and safety culture and discussed such examples as the 2002 Davis Besse vessel head incident, the inattentive guards at the Peach Bottom plant and the recent veteran's affairs radiation treatment errors. Mr. Ibarra discussed the NRC's 2009 Safety Culture policy and stated that it applies to all entities performing or overseeing NRC regulated activities and that the Commission suggested that the staff consider including vendors and suppliers in the 2009 Policy Statement. The NRC Safety Culture Workshop was held in February 2010 to reach alignment on safety culture definitions and traits and attendees represented operating reactors, medical facilities, fuel cycle facilities, gage manufactures, universities, and Agreement States. Lastly, Mr. Bruce Williams of the Shaw Group discussed how his company incorporates SCWE principles into their organization.

### Counterfeit, Fraudulent, and Suspect Items Session

Mr. Marc Tannenbaum of EPRI addressed the audience on mitigating the risk of counterfeit and fraudulent items. Mr. Tannenbaum presented an overview of the EPRI engineering technical report on counterfeit, fraudulent, and substandard items (CFSI). His discussion included global counterfeit concerns and the scope of CFSI concerns, a historical perspective on CFSI in the nuclear industry, preventative actions, and a proposed CFSI reporting process.

Mr. Dan Pasquale of the NRC's Quality and Vendor Branch 2, in the Office of New Reactors, discussed the quest for reasonable assurance in detecting counterfeit electronic components. Mr. Pasquale noted that there has been a 140% increase in CFSI reported for all industries in the United States between 2006 and 2009. He discussed the changing motivations for CFSI, gave examples of delayed failures, provided the NRC's regulatory framework related to CFSI, and stressed the importance of testing in detecting CFSI in electronics. In addition, Mr. Pasquale presented numerous links to industry resources.

### NRC Enforcement Policy

Mr. John Wray of the NRC's Office of Enforcement discussed the NRC Enforcement Policy as it applies to vendors. Mr. Wray detailed key elements of the enforcement policy and the enforcement manual. He then described how and why the NRC issues violations, non-cited violations, and nonconformances.

### ASME Nuclear Survey Process

Mr. Wilfred LaRoche of HSB Global Standards discussed the ASME nuclear survey process. He highlighted the NRC regulations that endorse the ASME code, discussed the different ASME accreditation and survey processes, and the different ASME certificates and the processes involved in getting them.

### Vendor Perspective on Implementing NRC Requirements

Mr. Robert Barry of Flowserve-Raleigh challenges, experiences, and lessons learned from ASME surveys, NUPIC audits, and NRC inspections. Mr. Barry discussed how to prepare for and what to expect during an inspection, audit or survey. He compared the ASME survey process, NUPIC audits, and NRC inspections with special emphasis on the areas of notification, general preparation, team size, requirements and inspection focus, findings and corrective actions, and scope.

Ms. Tara Werner of Areva NP Inc. described improvements and benefits realized from inspections and audits. Ms. Werner outlined the type and frequency of third party oversight that her company receives. She then shared some of the results and improvements made at Areva NP Inc as a result of specific findings and corrective actions. These improvements related to their 10 CFR Part 21 program, software quality assurance, document control, and self assessment weaknesses. Ms. Werner finished her presentation with a discussion of the similarities and differences provided by various third party oversight organizations.

### Summary and Conclusions

Several key messages were developed from the interactions during the workshop:

- Rigorous vendor oversight is crucial to maintaining the integrity of the global supply chain and new reactor safety.
- Safety culture promotes quality in the global supply chain.
- Vigilance is key to prevent the entry of counterfeit, fraudulent, and suspect items into the industry.
- It is important to be an intelligent customer.
- The licensee is ultimately responsible for quality.

Consistent with the first workshop, the NRC staff received over 100 questions throughout the day, responding to as many as time allowed. As with the first workshop, all questions will be answered through the NRC's website.

In an effort to enhance the next vendor workshop, the NRC solicited suggestions from the attendees. The NRC included a solicitation for suggested topics at future workshops in the workshop program. NRC Public Meeting Feedback forms were also distributed to attendees, and numerous public meeting feedback forms were received at the close of the workshop. The general consensus was that the attendees appreciated the NRC being proactive in explaining its regulations and expectations for nuclear vendors. In addition, the attendees expressed interest in the NRC's continued conduct of similar outreach activities and suggested that the NRC continue to coordinate its workshop with the annual NUPIC Vendor Meeting. Additional feedback forms are expected by mail. These feedback forms will be used to improve future vendor workshops and to focus on the appropriate topics at the workshops.

In summary, the workshop brought together regulated utilities, nuclear component vendors and other interested stakeholders to discuss such issues as vendor oversight for new reactors; the ASME nuclear survey process; the NRC enforcement policy as it applies to vendors; and counterfeit, fraudulent or suspect items.

Enclosures:

As stated

Summary and Conclusions

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Enclosures:  
As stated

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- 5 -

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2<sup>nd</sup> NRC Workshop on Vendor Oversight for New Reactor Construction  
 June 17, 2010

Attendee List

<b>First Name</b>	<b>Last Name</b>	<b>Affiliation</b>
Paul	Abens	Fisher Controls
Benjamin	Ahrens	Fisher Controls
Gregory	Alexander	MONARCH ELECTRIC SERVICE CO. A DIVISION OF IPS (INTREGATED POWER SERVICES)
Gregory	Amsden	Amsden's Consulting Services
Earl	Andes	Louisiana Energy Services / URENCO USA
Jack	Appolonia	Airgas Inc.
Jack	Appolonia	Airgas Inc.
Kevin	Ard	Miid Columbia Engineering
Jason	Ardoin	Vendor
Aaron	Armstrong	US NRC
Kevin	Armstrong	Automatic Valve
Damaris	Arroyo	US NRC
John	Aslandis	DRC Consolidated Controls Inc.
Patrick	Auer	Bechtel National
Robert	Aurisy	Concrete Anchor MFG
Bruce	Bader	RCM Technologies
Michael	Bagale	Shaw AREVA MOX Services
Craig	Baird	Plymouth Tub & Company
Edward	Baker	Talisman International
Lauren	Bandler	Fairbanks Morse Engine
Mark	Banks	US NRC (OIG)
Troy	Barker	NPPD - Cooper

Orie	Barnes	Transco Products, Inc.
Raul	Baron	Tennessee Valley Authority
Dorothy	Barry	Flowserve Corporation
Robert	Barry	Flowserve Corporation
Rebecca	Baumgartner	Lincoln Structural Solutions
Jeff	Baysinger	Florida Power & Light
Lisa	Beers	Wheatland Tube Co
Linda	Belanger	DRS-CCI
Archie	Bell	Nuclear Logistics Incorporated
Hubert T.	Bell	US NRC (OIG)
Mike	Bell	Trentec
Zachary	Bensusan	Garlock Sealing Technologies
Julie	Benzer	General Rubber Corp.
Julie	Benzer	General Rubber Corp.
Shamsher (Sham)	Beri	Trojan Nuclear Plant
James	Berry	Weldstar Co
Sujit	Bhattacharya	Luminant
Peter	Blattner	Alaron Corporation
Doug	Blesie	ABB Inc
Tracy	Bolt	Nuclear Logistics, Inc.
Bill	Bondurant	United States Enrichment Corp.
Brad	Boothe	Laron
Debbie	Borland	Global Quality Assurance, Inc
Scott	Borland	Amidyne Group - Versatile Measuring Instruments
Zach	Boudreaux	The Shaw Group
Eric	Brand	Mirion Technologies (IST)
Ralph	Branscomb	BCF Solutions - Atomic Energy Services



David	Breneman	Dominion
Linda Chase	Brissey	PCI Energy Services, LLC
Richard	Brodeur	Okonite
Marianne	Brooks	The Sherwin-Williams Company
Catherine	Brouillette	Sargent & Lundy LLC
Leon	Broussard	Dynamic Power, LLC
Richard	Brown	RSCC Wire & Cable LLC
Charles	Brown	PPL
William	Brown	PPL
Tom	Brunelli	Dominion
Chad	Buchwalter	ABB - Supplier
Richard	Buechler	PSEG Nuclear LLC
Robert	Bunz	Omaha Public Power District ( Fort Calhoun Nuclear)
Mathew	Burke	Premier Technology, Inc.
Michael	Burnitt	True North Consulting
Joselito	Calle	US NRC
Dana	Campbell	Thermo Fisher Scientific
Donnie	Campbell	Shaw AREVA MOX Services
Elijah	Campbell	Salt River Project
Howard	Campbell	Camfil Farr
Bernard	Cando	SAULSBURY INDUSTRIES
Forrest	Cannon	National Security technologies
Tom	Cannon	Bruce Power LP
John	Canup	Bahnson, Inc.
Mark	Capallo	ENERGY & PROCESS CORP.
Matthew	Carter	Worley Parsons

Ronald	Carver	Luminant Power
Terry	Casteel	Toshiba America Nuclear Energy Corporation
Mark	Cauley	US Army Corps of Engineers
Sheila	Cawley	Flowserve FCD
Bradley	Cellier	Paul C. Rizzo Associates, Inc.
Raymond	Chalifoux	ATC NUCLEAR
Roberta	Chandler	SOR, Inc.
John	Chappell	Flowserve Corporation
Thomas	Childress	Project Assistance Corporation
Tom	Childress	PAC
Bryan	Christensen	Twin City Fan and Blower
Joe	Ciancio	Bralco Metals - Vendor
Brandaly	Cintron-Deleon	Fluor Nuclear Power
Sabrina	Cleavenger	US NRC
Paul	Coco	US NRC
Robert	Cole	BNL Industries, Inc.
Dave	Colegrove	Vendor - GE
Lawrence	Colligan	Canadian Nuclear Safety Commission
Ken	Conti	AREVA
Robert	Cooke	Sciencetech Engineered Products
Mike	Cox	AREVA NP Inc.
Spencer	Curtis	BCF Solutions - Atomic Energy Services
Larry	Cutlip	USEC, Inc.
Rick	Cutshaw	Dynamic Power, LLC
Gregory	Cwalina	US NRC
Altin	Dabulla	General Cable
Jim	Dalle	Sciencetech NUSI

Michael	Damiano	SSPC
Glenn	Davis	Sherwin Williams
Camiel	De Smet	Hilti
George	Deaton	HSB Global Standards
John	Debonis	Curtiss-Wright Flow Control Company - Target Rock
Jeff	Deeds	Energy Solutions
Jeffrey	Defebo	PSEG Nuclear, LLC
Leigh	Dehuff	Thermo Fisher Scientific
Rusty	Dekleine	Enertech, Curtiss-Wright Flow Control
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John	Detandt	James C. White Company, Inc.
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Richard	Dilorenzo	The Okonite Company
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Randy	Dubuc	Vendor
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Joseph	Dyer	OPPD
Rick	Easterling	Kinectrics
Joe	Edwards	Metal Tek International
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Judson	Ellmers	Burns and Roe, Inc.

Karla	Elwell	Howden Buffalo, Inc
Joe	Emerson	Preferred Metal Tech
David	Ethington	EDGEN MURRAY CORP.
Diana	Evans	Lincoln Structural Solutions
Matthew	Farrell	Fisher Controls Emerson Process
Kevin	Febles	
Steve	Ferrar	Curtiss-Wright Flow Control
Joe	Ferrero	Curtiss Wright - EMD
Kay	Fisher	DIVESCO, Inc.
Jim	Fitzwilliam	Trust Manufacturing
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Alan	Fogle	Ultra Electronics, NSPI
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Matthew	Frick	C&D Technologies, Inc.
Frank	Furfari	Nova Machine Products
Rod	Furniss	Howden Buffalo Inc.
Sylvie	Gagnon	Hydro-Quebec Gentilly 2
Greg	Galletti	US NRC
George	Garrett	Fluor Nuclear Power
Roy	Gaudet Jr	Roy Gaudet Quality Consultants
Semih	Genculu	Applied Technical Services, Inc
Buster	George	Mid-South Nuclear, Inc.
Bob	George	Ametek Suliostate Controls
Brad	Gerrard	PAC
John	Giddens	Southern Nuclear Operating Company
Robin	Gill	SPSI

Bernard	Gilligan	Hitachi Power Systems America
Brian	Gilmartin	DRS Consolidated Controls
Wayne	Glidden	PKMJ Technical Services
David	Gobbi	Flowserve Pump Division
Dennis	Goolsby	Duke Energy
Bobby	Gould	Spitzer Industries, Inc.
Ken	Gould	Namco Controls
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Jim	Greame	ASCO Valve Mfg. Co.
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Crystal	Jackson	SPTNOC
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Thomas	Jankauskas	Ranor Inc
Douglas	Jaquith	WorleyParsons
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Jim	Johns	FirstEnergy
Michael	Johnson	US NRC
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Raj	Jolly	Bechtel Power Corp.
Jerry	Jones	Mogas Industries
Duska	Jovicic	Krško Power Plant
Mark	Kachmar	Westinghouse Electric Company
Bruce	Karie	Acuren Inspection
Kerri	Kavanagh	US NRC
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Andrea	Keim	US NRC
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George	Kenney	Trentec
Sangjin	Kim	Doosan Heavy Industries & Construction Co. Ltd.
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Terry	Krause	Burns & McDonnell
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Earl	Mayhorn	AmerenUE
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Joseph	Mcmillan	NRC
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Brian	Mervak	SCF & G
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Juan	Peralta	US NRC
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Scott	Phlieger	EnerSys Delaware Inc.
James	Pillow	Common Arc Corporation
Al	Pitts	UniStar Nuclear
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Bill	Pugh	Gerdaw Ameristeel
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Cynthia	Quilling	Crane Nuclear Valve Services
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John	Schopper	Wolf Creek Nuclear Operating Corp.
E. Reilly	Schum	Wyle Laboratories, Inc.
Ken	Scott	Integrated Power Services
Del	Senner	Energy Northwest
Nick	Serafin	Consumers Energy / Laboratory Services
Richard	Shamblin	Technology for Energy Corporation
Tom	Sharp	Mackson Inc.
Jeff	Shaw	Tioga Pipe Supply Co., Inc.
Russell	Shearer	ISL
Gregg	Shirey	Paul Mueller Company

John	Simmons	Luminant Power
Wayne	Simons	Los Alamos National Security
Larry	Skiles	Dominion
Randy	Slomski	SPX Copes-Vulcan
Edwin	Smithers	Mistras Group, Inc
Garry	Snyder	Lincoln Structural Solutions
Mark	Soler	Holtec International
Arthur	Soma	Camfil Farr
Marikay	Speckert	Carboline Company
Ed	Stawkiewicz	Joseph Oat Corp.
Dave	Steiner	Powers Fasteners
David	Stephens	Ultra Electronics, NSPI
Darlene	Stimart	Xcel Energy
Thomas	Stomerski	GUTOR Electronic LLC
Tracie	Straalsund	Miid Columbia Engineering
Edward	Stroberg	Swagelok
L. Earl	Stucks, Jr.	QMMT Associates, Inc.
Junko	Sugaya	Japan NUS Co., Ltd.
Harry	Sy	ABB, INC
Curtis	Taft	Nucor Steel
Marc	Tannenbaum	EPRI
John	Tappert	US NRC
John	Tappert	US NRC
Ken	Taylor	Cameron Measurement Systems
Daniel	Tepley	Los Alamos National Lab
James	Thomas	AAF International
Mario	Thomas	Babcock & Wilcox

James	Thompson	Hilti, Inc.
Ed	Thornton	Energy & Process Corp.
William	Tibbs	AREVA - Lynchburg, VA
Jeremy	Timm	Lambert MacGill Thomas, Inc.
Gerald	Toole	Hirschfeld Industries
Glenn	Tracy	US NRC
Clay	Trantham	Hirschfeld Industries
Yolanda	Troxell	Subcontractor
Art	Trozzi	Westinghouse Electric
Mike	Turner	Wolf Creek Nuclear Operating Corporation
Colbert	Turney	SOR, Inc.
Andreas	Uebleis	Hilti Corp.
Jeff	Usem	Twin City Fan & Blower
Brett	Vake	Twin City Fan and Blower Co
George	Vaslos	Invensys Triconex
David	Vellekoop	Kinectrics Inc.
Doug	Vickery	DuBose National Energy Services, Inc.
Brian	Vickery	Progress Energy
Paul	Vinyard	Northrop Grumman Newport News Industrial
Donato	Visco	Arizona Public Service Company
James	Walden	Vendor
Doug	Walker	Energy & Process Corp.
Paul	Walker	Ranor, Inc.
Leslie	Ward	Rolls-Royce
William	Ward	Lisega INC
William	Ware	Southern Nuclear Operating Co
Dottie	Wasmundski	Lehigh Testing Labs, Inc.

Gene	Wasson	Constellation Energy Nuclear Group
Paul	Waterloo	Applied Energy Services
Dennis	Weaver	Bechtel
Michael	Wedemeyer	Fisher Controls Int'l LLC
Michael	Weinstein	Scientech
Martin	Wells	Sigma inc
Stephen	Werlick	
Tara	Werner	AVREA NP Inc.
Bruce	Wheeler	Quality Management Services
Kevin	Wheelwright	Numerical Applications, Inc.
Paul	Wilcox	Rio Tinto Minerals
Nicola	Willey	Electric Motor & Contracting Co Inc
Bruce	Williams	Shaw Power Group
Carrie	Wilson	Duke Energy
Donald	Wiwczar	Zachry Nuclear Engineering Inc.
Wendy	Woltz	Progress Energy
Joe	Wood	Sulzer Pumps
Ryan	Woolard	Camfil Farr
Jeffrey	Worthington	US Env. Protection Agency Office of Environmental Information
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Ernest C.	Yockey	International Quality Consultants, Inc.
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Arthur	Young	Advanced Energy America, LLC



Sam	Yousif	Dynamic Solutions USA, Inc
Frank	Yurich	American Crane & Equipment Corporation
Michael	Zeitler	US NRC

2<sup>nd</sup> NRC Workshop on Vendor Oversight for New Reactor Construction  
June 17, 2010

List of Speakers

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Mark Harvey	UniStar Nuclear
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