


United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of: Entergy Nuclear Operations, Inc. (Indian Point Nuclear Generating Units 2 and 3)	
	ASLBP #: 07-858-03-LR-BD01
	Docket #: 05000247   05000286
	Exhibit #: ENT000037-00-BD01
	Admitted: 10/15/2012
	Rejected: Other:
Identified: 10/15/2012 Withdrawn: Stricken:	



**CSI Technologies, Inc.**  
*Consulting Engineers*

ENT000037  
Submitted: March 28, 2012

## Resume: Robert M. Aleksick

### Professional Highlights

- President of CSI Technologies, a technology firm that provides software and consulting to the nuclear electric power generation industry worldwide
- Published, nationally recognized expert in Flow-Accelerated Corrosion (FAC)
- Over twenty years of engineering and project management experience in the nuclear industry, specializing in Flow-Accelerated Corrosion (FAC) and Buried/Underground Piping issues
- Managed or worked on nearly 1,000 FAC and other projects since 1989
- Invited by EPRI to sit on various software design/review committees, including multi-million dollar development projects for CHECWORKS/SFA and BPWORKS

### Experience

Mr. Aleksick has overall responsibility for creating and delivering value to our clients, including strategic aspects of marketing, finance, sales, operations, and new product development. He is a published, nationally recognized expert in the FAC services field with over twenty years of experience.

His technical background is in mechanical systems engineering, specializing in the development, implementation, and management of Engineering Programs, with special expertise in flow-accelerated corrosion (FAC), buried piping, and service water/raw water corrosion programs. His technical experience includes the following:

- Legal/Regulatory Expert Support for Restart, Power Uprate, and License Extension Efforts

Mr. Aleksick has provided expert support to clients before, during, and after various NRC inspections, audits, and licensing proceedings. For example, Mr. Aleksick played a key role interfacing with NRC in support of Fort Calhoun's restart efforts following their 1997 FAC rupture. In addition, he has supported numerous Extended Power Uprate license amendments (see [tinyurl.com/3bq7xj4](http://tinyurl.com/3bq7xj4) for a transcript of his testimony in support of the Waterford EPU). In addition, he has provided support to clients in advance of and during audits and assessments by other bodies, including INPO, WANO, and others. Mr. Aleksick also provided expert support to Kansas City Power & Light for the development of legal strategies following the fatalities caused by the FAC piping rupture at Iatan Station in 2007.

- FAC Project Management and Performance

Mr. Aleksick has managed or worked on nearly 1,000 FAC projects since 1989 and is intimately familiar with every element of such programs, including:

- Development, review, and calibration of FAC-predictive risk-ranking codes, including CHEC, CHECUP, CHECMATE, CHECWORKS/SFA, and others
- Development and review of technical and administrative procedures
- Preparation and review of essential FAC program documents including system susceptibility/program basis documents and "susceptible non-modeled" ranking analyses
- Preparation of program health reports/matrices
- Preparation of detailed program assessments/audits



- Notable Projects

Mr. Aleksick has had involvement in a number of high-profile FAC projects, including:

- Served (on a contract basis) as the Corporate FAC Program Manager at Exelon, responsible for day-to-day management and long-term planning for their entire fleet of nuclear stations
- Developed and provided FAC/Buried Pipe training to utility executive and technical personnel, EPRI management and technical personnel, INPO field auditors, and NRC personnel
- Developed and provided FAC training to engineers in China on the application of CHEWORKS/SFA to the generation of reactors currently under construction there
- Due to his familiarity with the industry direction, practices, needs, and personnel, Mr. Aleksick is frequently consulted about staffing decision by utilities
- Mr. Aleksick has assisted numerous utilities with restart/recovery plans following FAC ruptures or other significant events

- Field Experience

Mr. Aleksick's FAC experience on site includes over twenty outages at fifteen different sites. This hands-on site work consisted of coordinating NDE and craft contractors and calculations of component remaining life based on data obtained from the examinations.

Mr. Aleksick also has extensive experience in the development and implementation of programs to address raw water/service water corrosion, valve body erosion, and drywell corrosion.

Prior to founding CSI Technologies, Inc., Mr. Aleksick was a Senior Engineer and key team member at Vectra Technologies (formerly ABB Impell) where he served as the lead Project Engineer.

## **Education**

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- Undergraduate: University of Illinois at Urbana-Champaign, five years of B.S.-level studies in Nuclear Engineering.
- Undergraduate: University of Nottingham (England), School of Humanities, one year of undergraduate study of Philosophy.
- Graduate: Northwestern University, Evanston, IL, Kellogg Graduate School of Management, *Kellogg Management Institute: Essentials of the Masters in Business Administration*, one-year non-degree certificate program.

## **Coursework**

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Mr. Aleksick's coursework at the University of Illinois included: Design in Nuclear Engineering, Safety Analysis of Nuclear Reactor Systems, Nuclear Waste Management, Materials in Nuclear Engineering, Nuclear Physics, Nuclear Reactor Physics, and Radiation Protection.

Mr. Aleksick's coursework at the Kellogg School of Management included: Negotiation, Leadership and Strategic Change, Accounting, Evaluating Financial Results, Functional Integration, Finance, Marketing, Strategy Implementation, Operations, Managerial Decision-Making, and Information Technology.

## **Affiliations**

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Member, American Nuclear Society

Member, American Society of Mechanical Engineers

Sustaining Member, NACE International

INPO Flow-Accelerated Corrosion Programs Instructor



### **Selected Publications**

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Aleksick, R. M., and Rhoades, K. E., *An Integrated Approach to Erosion/Corrosion Monitoring Programs*, ANS/ASME Nuclear Energy Conference Proceedings, August 1992.

Aleksick, R. M., Pulido, J. E., et al, *An Alternate Approach to Calibrating FAC-Predictive Models Using Inspection Data*, 4th International Topical Meeting on Nuclear Thermal Hydraulics, Operations and Safety, April 1994.

Aleksick, R. M., Iverson, J. A, Ratway, J. R., and Penny, R., *Flow-Accelerated Corrosion of Susceptible Non-Modeled Piping*, Fourth International Symposium on Flow-Accelerated Corrosion, June 1995.

Technical Editor of EPRI TR-106611, Flow-Accelerated Corrosion in Power Plants, a 500+ page technical handbook on FAC, 1998 and 2003 editions.

Technical Reviewer of EPRI Final Report 1009599, September 2004, *Guidelines for Plant Modeling and Interpretation of Inspection Data* (technical reviewer).

Significant Contributor to EPRI 1010059, *Service Water Piping Guideline*, Final Report, 2005.

Significant Contributor to EPRI NSAC-202L, *Recommendations for an Effective Flow-Accelerated Corrosion Program*, multiple editions from 1994 to 2006.