

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 #: ENT000092-00-BD01  
 Admitted: 10/15/2012  
 Rejected:  
 Other:  
 Identified: 10/15/2012  
 Withdrawn:  
 Stricken:

ENT000092  
 Submitted: March 28, 2012



**RESUME**

**Roger B. Rucker, P.E.**

**EDUCATION**

B.S., Electrical Engineering, University of Arkansas, 1990

**EXPERIENCE**

**TOTAL ENGINEERING EXPERIENCE (NUCLEAR): 22 Years**

09/2006 - Present

Iepson Consulting Enterprises – Entergy License Renewal Electrical Lead

- Responsible for preparation and review of Electrical, Instrumentation and Control (EIC) Aging Management Reviews, EIC Aging Management Program Evaluation Report, and EQ TLAA Reports for the Indian Point, Cooper, Grand Gulf, TVA Sequoyah, and Fermi 2 License Renewal Projects. Responsible for supporting and reviewing the EIC portions of the Scoping Report, the OE Report, and the LRA for Indian Point, Cooper, Grand Gulf, and TVA Sequoyah.
- Support License Renewal Implementation Activities for Pilgrim, Fitzpatrick, Palisades, Indian Point, Vermont Yankee, and Arkansas Nuclear One, with the focus on developing and implementing electrical inspections associated with GALL XI.E1, E2, E3, E4, and E6 programs, and supporting NRC inspections.
- Support NRC audits for Fitzpatrick, Indian Point, Cooper, and Grand Gulf, and resolve auditor comments as assigned.
- Support ASLB Hearings for Indian Point including providing expert testimony at the hearings
- Taiwan Power: Developed and presented training material for implementation of license renewal aging management programs for electrical components at Chin Shan plant site and Taiwan Power Corporate office.
- Attend NRC and Industry meetings as assigned.
- Support Entergy license renewal project activities as assigned.

11/2009 – Present

Edan Engineering Corporation

- Perform circuit analysis / breaker coordination for (TVA) Browns Ferry NFPA 805 project. Includes identification of power supplies for SSEL components, highlighting drawings, and providing a calculation identifying breaker coordination requirements with a gap analysis for existing coordination calculations.
- Prepared updated SSEL for (Southern Nuclear) Vogtle U1 and U2. Highlighted P&IDs to verify existing SSEL, and provided new SSEL with recommended additions in Edan's ARC Database necessary to meet the criteria of NEI 00-01, Rev. 2 and Regulatory Guide 1.189.
- Performed MSO review as part of the updating the SSEL for (Southern Nuclear) Vogtle U1 and U2 and Hatch U1 and U2. Highlighted P&IDs to include the MSO components with the updated SSEL
- Prepared new SSEL calculation for (Southern Nuclear) Vogtle U1 and U2 based on the amended ARC Database to meet the criteria of NEI 00-01, Rev. 2 and Regulatory Guide 1.189.

1/2012 – Present

Iepson Consulting Enterprises – PSE&G Nuclear (Hope Creek)

- Developed site procedure, and performed inspections for the insulated cables and connections program (GALL XI.E1).



## RESUME

### Roger B. Rucker, P.E.

|                   |   |
|-------------------|---|
| 10/2011 – Present | <u>lepson Consulting Enterprises – Exelon Generation (Peach Bottom)</u> <ul style="list-style-type: none"><li>Developed site procedure, and performed inspections for the insulated cables and connections program (GALL XI.E1).</li></ul>  |
| 10/2011 – Present | <u>lepson Consulting Enterprises – Progress Energy (Brunswick and Crystal River)</u> <ul style="list-style-type: none"><li>Developed site procedure, and performed inspections for the insulated cables and connections program (GALL XI.E1).</li></ul>   |
| 10/2009 – 06/2011 | <u>lepson Consulting Enterprises – Southern Nuclear (Hatch)</u> <ul style="list-style-type: none"><li>Developed site procedure, and performed inspections for the insulated cables and connections program (GALL XI.E1).</li></ul>  |
| 03/2011 – 06/2011 | <u>lepson Consulting Enterprises – Arkansas Nuclear One (Design Engineering)</u> <ul style="list-style-type: none"><li>Prepared a scoping report for low-voltage and medium-voltage power cable manhole modifications to facilitate inspections and dewatering activities for license renewal commitments and current industry best practices.</li></ul>  |
| 07/2010 – 09/2010 | <u>lepson Consulting Enterprises – Palo Verde</u> <ul style="list-style-type: none"><li>Performed site walk downs and prepared results report to support EQ program environment update.</li></ul>   |
| 03/2009 - 04/2009 | <u>lepson Consulting Enterprises – Korea Plant Services</u> <ul style="list-style-type: none"><li>Developed training material, and presented training material for license renewal and aging management of electrical components.</li></ul>   |
| 09/2008 - 12/2008 | <u>lepson Consulting Enterprises – Arkansas Nuclear One (Design Engineering)</u> <ul style="list-style-type: none"><li>Prepared and reviewed instrument loop uncertainty calculations associated with the replacement of the data acquisition hardware for the Safety Parameter Display System (SPDS) computer.</li></ul>   |
| 07/2008 - 10/2008 | <u>lepson Consulting Enterprises – Arkansas Nuclear One (Design Engineering)</u> <ul style="list-style-type: none"><li>Developed the modification package for the replacement of the Unit 1 Startup Boiler control system. The project included providing details for design development including purchase of material, control system software integration, field installation and testing.</li></ul> |
| 12/2007 - 05/2008 | <u>EXCEL Services Corporation – Beaver Valley Technical Consultant</u> <ul style="list-style-type: none"><li>Provided support for the NRC review of the Beaver Valley LRA including NRC Audits and RAI responses.</li></ul>   |
| 08/2005 - 05/2008 | <u>EXCEL Services Corporation – Technical Consultant</u> <ul style="list-style-type: none"><li>Provided support in various activities including developing proposals for projects including license renewal, reviewing miscellaneous documents, and developing white papers for various clients.</li></ul>  |



---

---

# RESUME

---

---

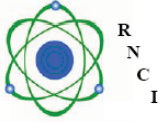
---

## Roger B. Rucker, P.E.

---

---

- 06/2005 - 09/2007 | EXCEL Services Corporation – Beaver Valley LR Project Manager
- Responsible for overall performance of the project from the conceptual through the developmental, and implementation phases. Also acted as the primary point of contact for problem resolution and as the “lead” of the Project Team.
  - Ensure the project safely achieves the project deliverables within the approved scope, cost, and schedule. Review and approve project and contract budgets for adequacy, completeness, and other requirements and assuring that required future year budgets and project budget revisions are initiated as required.
  - Ensure proper review and approval of project documents for clarity and completeness. Examples include contracts, requisitions, task authorizations, and other similar project guidance documents as needed.
  - Responsible for selecting and assigning project personnel, and ensuring project personnel are trained and qualified.
- 07/2002 - 06/2005 | Entergy Nuclear - License Renewal Sr. Electrical Engineering Lead
- Responsible for preparation and review of Electrical, Instrumentation and Control Aging Management Reviews and EQ TLAA Reports for the ANO2, DC Cook, Pilgrim, Vermont Yankee, and Fitzpatrick License Renewal Projects.
  - Review and direct work of Electrical Engineers assigned to various License Renewal projects.
  - Responsible Lead for developing the ANO-2 and Vermont Yankee OE review reports.
- 01/2000 - 07/2002 | Entergy Operations Inc., Arkansas Nuclear One – Sr. Lead Startup Engineer, ANO-2 Steam Generator Replacement and Power Uprate Projects.
- Night-Shift Test Lead for Power Uprate Startup: provided approval for proceeding to the next planned power plateau, provided coordination between operations, reactor engineering, design engineering, and startup test group, disposition test deficiencies associated with the startup, and provided the morning turnover/status report to the restart team and plant management. (ANSI N45.2.6 Level III Test Engineer)
  - Responsible for control systems and plant transients testing associated with Steam Generator Replacement and Power Uprate startup activities.
  - Developed test procedures (work plans) as required to implement the required control system and plant transient testing.
- 09/1996 - 12/1999 | Entergy Operations Inc., Arkansas Nuclear One – Senior Engineer, Minor Modifications
- Developed, Implemented, and Tested Design Changes for various Unit 1 and 2 systems, including ANO-1 ICS, ANO-2 FW Control, ANO-2 Iso-phase, and various Chemistry Upgrades.
  - Provided support for various modifications as the Post-Modification Test Engineer.



---

---

## RESUME

---

---

---

### Roger B. Rucker, P.E.

---

---

01/1991 - 09/1996 | Entergy Operations Inc., Arkansas Nuclear One – Engineer I to Senior Engineer, EIC Design Engineering

- Project Manager for several plant modifications.
- Developed Design Changes for various Unit 1 and 2 systems, including Plant Computer Replacement, CAPS Upgrade, ANO-1 ICCMDS, ANO-1 Digital Feed Pump Control, ANO-2 Digital Feedwater Control, and ANO-2 TSI.
- Supported ANO-1 Plant Computer FAT, and performed ANO-2 Plant Computer FAT. Supported ANO-1 and ANO-2 Plant Computer SAT, and Post-Modification testing.
- Developed and performed ANO-1 ICCMDS FAT, SAT, and Post-Modification Test.
- Performed post-modification test of the ANO-1 Digital Feed Pump Control, and ANO-2 Digital Feedwater Control.
- Developed Testing Work Plans for several design packages while assigned to Plant Modification and Startup for three outages.

#### CERTIFICATIONS

- Professional Engineer; Registered in Arkansas
- Certified ANSI N45.2.6 Level III Test Engineer
- Master Electrician, Licensed in Arkansas

#### PROFESSIONAL AFFILIATIONS

- Member, Institute of Electrical and Electronic Engineers (IEEE)
- Member NEI Medium Voltage Underground Cable Task Force
- Member NEI License Renewal Electrical Working Group (LREWG)
- Member EPRI Cable User Group