

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of:)
)
CALVERT CLIFFS 3 NUCLEAR PROJECT,)
LLC AND UNISTAR NUCLEAR)
OPERATING SERVICES, LLC)
(Calvert Cliffs Nuclear Power Plant, Unit 3))

Docket No. 52-016-COL

AFFIDAVIT OF DIMITRI LUTCHENKOV

I, Dimitri Lutchenkov, do hereby state as follows:

1. I am currently employed as the Director, Environmental Affairs and Special Projects, for UniStar Nuclear Energy, LLC (“UniStar”). In my position at UniStar I have responsibility for the environmental aspects of the Calvert Cliffs 3 licensing reviews. A statement of my professional qualifications is attached.
2. I am responsible for the testimony marked with my initials.
3. I attest to the accuracy of those statements, support them as my own, and endorse their introduction into the record of this proceeding.
4. I hereby certify under penalty of perjury that the forgoing is true and complete to the best of my knowledge, information, and belief.

Executed in accord with 10 C.F.R. § 2.304(d),

signed electronically by Dimitri Lutchenkov

Dimitri Lutchenkov

Director, Environmental Affairs and

Special Projects

UniStar Nuclear Energy, LLC

100 Constellation Way

Baltimore, MD 21202

dimitri.lutchenkov@unistarnuclear.com

Dated at Baltimore, Maryland
this 21st day of October 2011

DIMITRI LUTCHENKOV

9408 Parsley Drive
Ellicott City, MD 21042
410-696-2570

Years of Experience: 33

Professional History

UniStar Nuclear Energy, Director Environmental Affairs, 2008 - Present
Constellation Energy, Project Director, 2006 – 2008
El Paso Corporation, Project Manager, 2001 – 2006
MPR Associates, Inc., Principal, 1979 - 2001

Expertise

- Nuclear licensing and federal/state/local permitting management
- Management and engineering of nuclear electric power facilities, fossil (oil/gas/coal) boiler units, large to small diesel generators, gas turbines (frame and aeroderivative), and hydroelectric facilities
- Management of large multidisciplinary programs both domestic and international
- Management of domestic and international fleet of power plants including oversight of commercial, procurement, maintenance, technical, and environmental aspects of the projects
- Construction management of various magnitude of projects from \$50k to \$1B both domestic and international
- Spearheaded establishment of a regional office in Houston TX for MPR Associates, Inc. with focus on commercial management, project management and business development/marketing
- Management of utility QA/QC, outage maintenance planning, fuels analysis, procurement, and standard welding program development
- Exceptional writing and verbal skills to facilitate communication of complex issues vertically up or down organizational hierarchy in a clear succinct manner to management, legal, commercial, industry experts, staff, and construction or operations personnel

Professional Experience

UniStar Nuclear Energy – Director Environmental Affairs
Baltimore, MD

As Director of the Environmental Affairs Group lead the management of Part 3, the Environmental Report (ER), of the Combined Operating License Application (COLA) and the management of all of the associated federal (e.g., US Army Corps, EPA, US Fish and Wildlife), state (e.g., Public Service Commission, Department of Environment, PPRP, SHPO) and local agencies (e.g., county, township, city) permits required to construct and operate all of UniStar's U.S. EPR projects within project budget and schedule parameters. Manage team of licensing engineers, permitting project managers and subject matter experts (SMEs) and contractors in various disciplines including but not limited to aquatic ecology, terrestrial ecology, noise, traffic socioeconomics, and hydrology. Manage the Licensing interface with the NRC and the US EPR Design Certification vendors to ensure submittal of information is consistent with the need for timely review and issue resolution. Negotiate and status NRC Part 3 review schedules in support of the overall COLA schedule milestones.

DIMITRI LUTCHENKOV

Constellation Energy – Project Director

Baltimore, MD

As Project Director led the development and construction of the Brandon Shores Air Quality Control System (AQCS). This nearly \$1B retrofit project was the largest undertaking for CEG in over a decade. Managed the project from early Phase 1 design (conceptual design) through final design. Managed prosecution of all permitting required to construct and operate the facility. Managed the negotiation and execution of all major procurement and services contracts including BOP EPC, material handling EPC, stack EPC and scrubber EPC. Managed the negotiation and execution of long-term contract with the county government for use of the effluent from an adjacent water treatment facility. Managed project staff of 20 including project controls, finance, engineering, contracts & procurement, and legal. Managed construction work force of over 500 people from mobilization/groundbreaking to completion of all major foundations and topping off of stack.

El Paso Merchant Energy Group - Project Manager

Houston, TX

Project management of international fleet of power plants (>20 units comprised of coal boiler, gas turbine, diesel, and hydro) in southern cone (South America, Central America and Caribbean). Scope of work included oversight of commercial, procurement, maintenance, technical, and environmental aspects of the projects. As a member of the plant betterment group managed multiple modification, upgrade and conversion projects. Initiated and develop conceptual designs and directed design engineering contractors to final design. Conducted design reviews, develop specifications, bid documents, and performed bid evaluations. Developed project schedules and budgets. Managed development and negotiation of contracts. Performed contractor evaluation and selection. Provided on-sight project oversight. Developed scope and managed contractors for emissions and performance testing.

MPR Associates, Inc. - Principal

Alexandria, VA/Houston, TX

Started as an engineering technician providing engineering support and managing in-house IT system while continuing education for engineering degree. Steadily progressed to principal (owner/partner) and lead engineer.

Spearheaded the establishment of a regional office in Houston, TX while continuing to manage multiple projects in areas of new plant development, acquisition due diligence, plant betterment and reliability and international and domestic Y2K program for El Paso International and Tennessee Gas Pipeline for over 50 facilities. Personally conducted site evaluations of several assets in South America and the UK while concurrently managing over 20 technical personnel covering other assets. Provided seamless communication and reporting between legal, commercial management, upper management, and industry experts leading to prudent/cost effective corrective action. As a result, avoided multimillion dollar commercial impacts and potential legal actions while minimizing cost of the program.

Managed program development for pressure vessel tube life expectancy, steam turbine overhaul periodicity, rotor inspection periodicity, and spot market coal procurement for client utility. Managed QA/QC program that included outage scope planning (including equipment replacement), defining NDE scope, review and disposition of NDE findings, and evaluating contractor qualifications for client utility.

DIMITRI LUTCHENKOV

Provided project and consulting support to numerous clients with fossil-fired facilities, gas turbines and nuclear power facilities, and U.S. Navy in the following areas:

- Feasibility studies, development and evaluation of capital projects, design reviews, bid reviews, contractor evaluation, and evaluation of water chemistry control.
- Unit-specific standard weld procedures application guide.
- Configuration management control, black start capability, evaluated design basis criteria, included documenting and evaluating (for licensing basis) of SRP, docket, safety evaluation, FSAR, and licensing correspondence as well as evaluation of standard plant design concept at numerous nuclear generating facilities.

Power plant material condition assessments and life extension, turbine water induction protection, steam turbine maintenance procedures, finite element stress and thermal analysis, heat balance analysis, cost benefit analysis, and waterwall tube design.

Education

Darden School of Business/Constellation Energy, Certificate Program Transitional Leadership, 2008
University of Maryland, B.S., Mechanical Engineering, 1983
University of Maryland, B.A., Russian, 1978

Publications

Authored or co-authored proprietary reports associated with a variety of projects
“UniStar Fleet Experience with Environmental Siting and Licensing”, Presentation to American Nuclear Society 2009 Utility Working Conference, August 2-6, 2009

Languages

Cultural and professional native bilingual fluency in English and Russian